GEOLOGICAL & GEOCHEMICAL ASSESSMENT REPORT ON CERTAIN CLAIMS IN THE *ANYOX AREA* OF NORTH-WESTERN BRITISH COLUMBIA

REPORT DATE: JANUARY 12, 1998

MINING DIVISION: SKEENA
NTS: 103O/8E, 9E
103P/5E, 5W, 12W
NEAREST COMMUNITIES: STEWART, PRINCE RUPERT

LATITUDE (CENTER): 55^0 25' N
LONGITUDE (CENTER): 129^0 55' W

UTM EASTING (CENTER): 442 000
UTM NORTHING (CENTER): 6 141 000
UTM BASE: NORTH AMERICAN DATUM 1927

Claim owners:

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#250 - 1025 W. Georgia St.
Vancouver, B.C.
V6E 3C9

2) *CANADIAN ZEOLITE LTD.*
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V8K 1H4

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1.0 INTRODUCTION

This report has been written on behalf of *Five Star International Resources Inc.*, of Vancouver, B.C. The report describes office studies and field work carried out on certain lode mineral claims in the Anyox area of north-western British Columbia during the period of June 5, 1997 to October 21, 1997.

The claims which are the subject of this report have various owners, as determined by a search of Mineral Tenure records from the Office of the Mining Recorder.

Work done on the claims covered by this report includes geochemical moss mat sampling, reconnaissance geological mapping and aerial photographic interpretation.

The total cost of the work carried out on the claims in question from June 5, 1997 to October 21, 1997 was $60,175.02. This figure and other pertinent cost information was supplied by a representative of *Five Star International Resources Inc.*

2.0 SUMMARY & CONCLUSIONS

The Anyox area is located approximately 850 air-kilometers northerly from Vancouver, B.C. **(see Figure 3 - 1)** Access to the Anyox area is by helicopter or by boat **(see Figure 3 - 2)**.

The Anyox area is characterized by steep rugged country, with elevations ranging from sea level to over 1750 meters.

The 11 claim groups and 3 individual claims which are the subject of this report have 3 different owners **(see Figures 4 - 1A to 4 - 1L)**.

Most of the previous work carried out in the Anyox area has been restricted to intense examination of narrow high grade gold veins on Granby Peninsula, copper-gold vein systems in the Maple Bay area, major volcanogenic precious metal-bearing massive sulphide deposits in the Anyox Creek /Bonanza Creek areas and molybdenum occurrences near Granby Bay.

Very little recorded work has been carried out over most of the claims covered by this report. A government regional geochemical survey detected anomalous gold values in the Donahue Creek and Belle Bay Creek drainages, which are covered by the some of the claims described in this report.

Reconnaissance surveys carried out east of the dammed lake on Anyox Creek resulted in the detection of numerous zones of copper, gold, silver lead and zinc mineralization[4].

An updated (1997) regional geology map [2] covers most of the claims under discussion.

In the Anyox area, Jurassic volcanic and sedimentary rocks are preserved as roof pendants within the Late Cretaceous to Early Tertiary Coast Plutonic Complex.

The most important ore deposits in the Anyox area, with a present day value of almost one billion US$, are the volcanogenic massive sulphide (Au, Ag, Cu, Pb, Zn) *Hidden Creek- Anyox* and *Bonanza* deposits.

The majority of the important mines and prospects in the Anyox area are found in close proximity to the contact between Hazelton Group metavolcanic rocks and overlying Bowser Lake Group sediments.

Geochemical moss mat sampling, rock sampling and reconnaissance geological mapping were carried out on portions of the 11 claim groups and 3 individual claims. An aerial photographic interpretation was prepared for the claims.

A total of 22 rock samples were taken and analysed for 16 elements, including Au. A total of 87 moss mat or stream sediment samples were taken and analysed for 30 elements plus Au **(see Figures 6 - 1A to 6 - 1L)**.

Recommendations are made for further work in selected areas on most of the claim groups and individual claims. These recommendations are discussed in more detail in **Section 8.0**.

A cost statement has been prepared, based on information supplied by a representative of *Five Star International Resources Inc.*, detailing the $60,175.02 expenditure on the 11 claim groups and 3 individual claims.

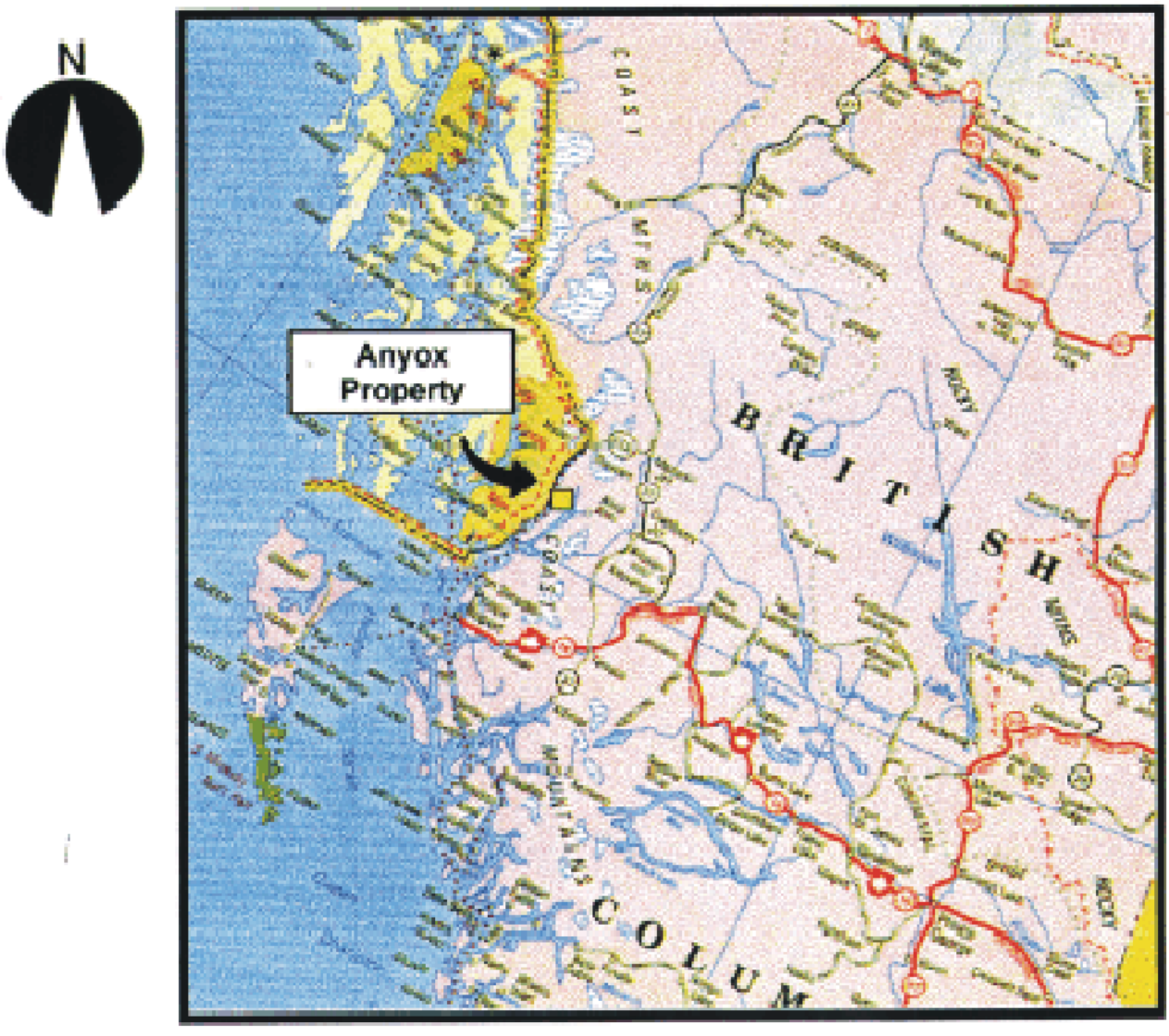
3.0 LOCATION & ACCESS

The claims which are the subject of this report are in located in the Anyox area of north-western B. C. This area is approximately 850 air-kilometers northerly from the City of Vancouver, B.C. or approximately 130 air-kilometers northerly from the City of Prince Rupert, B.C.

Access to the claim areas is by helicopter from the City of Prince Rupert, B.C., the Village of Terrace, B.C. or the Town of Stewart, B.C. The claim areas that are near tidewater may be accessed by boat.

Much of the area covered by the subject claims is steep and rugged, with elevations ranging from sea level to over 1750 meters. Tree line in the Anyox area averages about 550 meters. Many of the more prominent drainages are deeply incised, with very difficult access. Early snow and long winters restrict most exploration efforts at higher elevations to the late spring - summer - early fall months, from late May to mid September.

Location and access information is shown in **Figures 3 - 1 & 4 - 1**.



Source: Hammond Road Atlas of North America

FIVE STAR INTERNATIONAL RESOURCES INC.

Anyox Property, North-Western B.C.
Location Map

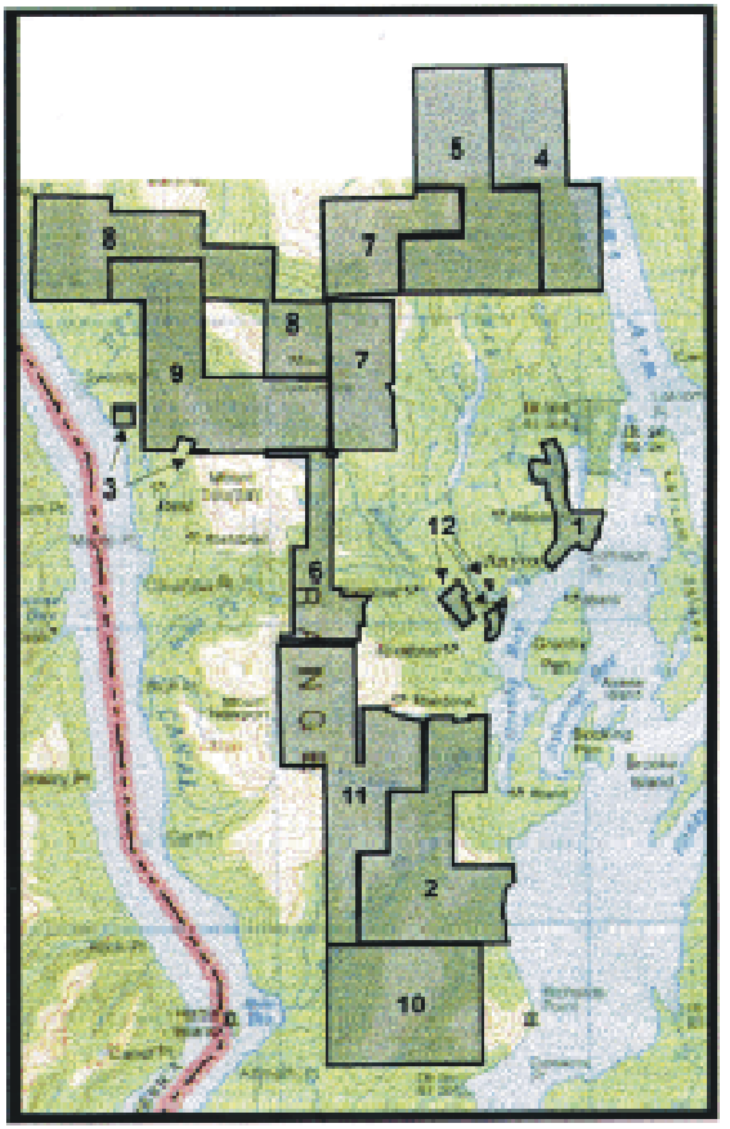
SKEENA M.D.
NTS: 93O/8E, 9E &
93P/ 5W, 12E

0 100 200 300
approximate scale in kilometers

Fig. 3-1

N

1 - Carney Lake Claim Group
2 - Belle Bay Claim Group
3 - Close Claim Group & Gap 4 Claim
4 - Hastings Claim Group
5 - Anyox Claim Group
6 - Bonanza Claim Group
7 - Glacier Claim Group
8 - Donahue Claim Group
9 - Tournay Claim Group
10 - Observatory Claim Group
11 - Cascade Claim Group
12 - Granby I & Granby II Claims



FIVE STAR INTERNATIONAL RESOURCES INC.

Anyox Property, North-Western B.C.
Access Map Showing Claims Worked On in 1997

SKEENA M.D.
NTS: 93O/8E, 9E &
93P/ 5W, 12E

0 5 10 15
approximate scale in kilometers

Fig. 4-1

4.0 CLAIM INFORMATION

This report covers assessment work carried out on 11 claim groups and 3 individual claims on behalf of 3 separate registered claim owners. Claim information is summarized in the following tables by claim group. Claim ownership information was obtained using the Mineral Tenure Search Facility on the B.C. Ministry of Employment & Investment World Wide Web Internet site. Codes used for registered owners of the claims are as follows:

CZL	***Canadian Zeolite Ltd.***
ALT	***Alta Sierra Resources Inc.***
MEA	***Carsten Mide***

<u>*CARNEY LAKE* Claim Group</u>
<u>(15 Claims - 26 Units) - (See Figure 4-1A)</u>

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Victory 1	1	352 222	1997OCT22	2000OCT22	CZL
Victory 2	1	352 223	1997OCT22	2000OCT22	CZL
Victory 3	1	352 224	1997OCT22	2000OCT22	CZL
Victory 4	1	352 225	1997OCT22	2000OCT22	CZL
Victory 5	1	352 226	1997OCT22	1999OCT22	CZL
Victory 6	1	352 227	1997OCT22	1999OCT22	CZL
Buck I	1	315 094	1997DEC04	1998DEC04	CZL
Buck II	1	315 095	1997DEC04	1998DEC04	CZL
Buck III	1	315 096	1997DEC04	1998DEC04	CZL
Buck IV	1	315 097	1997DEC04	1998DEC04	CZL
Tom	6	355 319	1998APR25	1999APR25	ALT
Carney	9	356 816	1998JUN19	1999JUN19	ALT
And 1	1	348 715	1998JUL06	1999JUL06	ALT
And 2	1	348 716	1998JUL06	1999JUL06	ALT
And #3	1	348 717	1998JUL06	1999JUL06	ALT
Total:	***26***				

BELLE BAY Claim Group
(9 Claims - 96 Units) - (see Figure 4-1B)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Triumph 2	20	352 220	1997OCT22	1998OCT22	CZL
Triumph 3	20	352 221	1997OCT22	1998OCT22	CZL
Del 6	12	355 325	1998APR25	1999APR25	ALT
Sarah 2	20	356 818	1998JUN19	1998JUN19	ALT
And #9	1	348 723	1998JUL06	1998JUL06	ALT
And #10	1	348 724	1998JUL06	1998JUL06	ALT
And #11	1	348 725	1998JUL06	1998JUL06	ALT
And #12	1	348 726	1998JUL06	1998JUL06	ALT
Fortune #1	20	359 388	1998SEP25	1998SEP25	MEA
Total:	***96***				

CLO SE Claim Group
(4 Claims - 4 Units) - see Figure 4-1C

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Close 1	1	352 595	1997OCT30	1998OCT30	MEA
Close 2	1	352 596	1997OCT30	1998OCT30	MEA
Close 3	1	352 597	1997OCT30	1998OCT30	MEA
Close 4	1	352 598	1997OCT30	1998OCT30	MEA
Total:	***4***				

HASTINGS Claim Group
(3 Claims - 48 Units) - (see Figure 4-1D)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Dinero 4	20	352 578	1997OCT30	1998OCT30	MEA
Oro 10	12	352 588	1997OCT30	1998OCT30	MEA
Oro 12	16	352 590	1997OCT30	1998OCT30	MEA
Total:	***48***				

ANYOX Claim Group
(4 Claims - 71 Units) - (see Figure 4-1E)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Dinero 3	20	352 577	1997OCT30	1998OCT30	MEA
Oro 8	16	352 577	1997OCT30	1998OCT30	MEA
Oro 9	15	352 587	1997OCT30	1998OCT30	MEA
Oro 11	20	352 589	1997OCT30	1998OCT30	MEA
Total:	***71***				

BONANZA Claim Group
(5 Claims - 47 Units) - (see Figure 4-1F)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Gap 3	5	352 593	1997OCT30	1998OCT30	MEA
Steer 1	6	355 326	1998APR25	1999APR25	ALT
Steer 2	6	355 327	1998APR25	1999APR25	ALT
Steer 3	12	355 328	1998APR25	1999APR25	ALT
Steer 4	18	355 329	1998APR25	1999APR25	ALT
Total:	***47***				

GLACIER Claim Group
(7 Claims - 98 Units) - (see Figure 4-1G)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Gap 1	6	352 591	1997OCT30	1998OCT30	MEA
Gap 2	5	35 592	1997OCT30	1998OCT30	MEA
Oro 5	15	352 583	1997OCT30	1998OCT30	MEA
Oro 6	12	352 584	1997OCT30	1998OCT30	MEA
Oro 7	20	352 585	1997OCT30	1998OCT30	MEA
Dan 1	20	356 819	1998JUN19	1998JUN19	ALT
Richard 1	20	356 823	1998JUN19	1998JUN19	ALT
Total:	***98***				

DONAHUE Claim Group
(6 Claims - 98 Units) - (see Figure 4-1H)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Oro 1	20	352 579	1997OCT30	1998OCT30	MEA
Oro 2	18	352 580	1997OCT30	1998OCT30	MEA
Oro 3	15	352 581	1997OCT30	1998OCT30	MEA
Rose 1	20	356 825	1998JUN19	1998JUN19	ALT
Fame #1	5	359 391	1998SEP25	1998SEP25	MEA
Fame #2	20	359 392	1998SEP25	1998SEP25	MEA
Total:	***98***				

TOURNAY Claim Group
(5 Claims - 98 Units) - (see Figure 4-1I)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Oro 4	18	352 582	1997OCT30	1998OCT30	MEA
Alta 1	20	356 827	1998JUN07	1999JUN07	ALT
Alta 3	20	356 828	1998JUN07	1999JUN07	ALT
Rose 2	20	356 826	1998JUN19	1998JUN19	ALT
Discovery #2	20	359 390	1998SEP25	1998SEP25	ALT
Total:	***98***				

OBSERVATORY Claim Group
(2 Claims - 40 Units) - (see Figure 4-1J)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Del 3	20	355 322	1998APR25	1999APR25	ALT
Del 4	20	355 323	1998APR25	1999APR25	ALT
Total:	***40***				

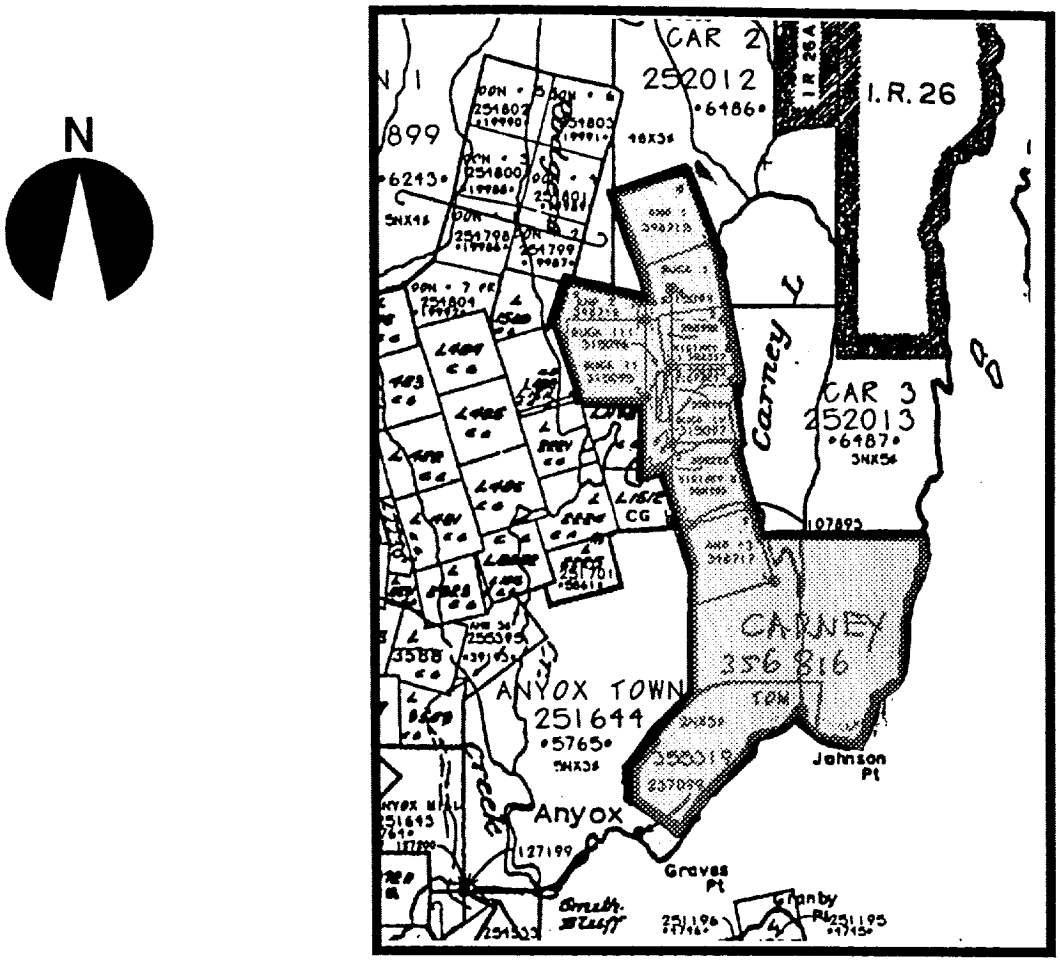
CASCADE Claim Group
(6 Claims - 96 Units) - (see Figure 4-1K)

Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Steer 5	20	355 330	1998APR25	1999APR25	ALT
Steer 6	20	355 331	1998APR25	1999APR25	ALT
Del 5	12	355 324	1998APR25	1999APR25	ALT
Del 7	12	356 829	1998JUN07	1998JUN07	ALT
Del 8	12	356 830	1998JUN07	1998JUN07	ALT
Sarah 1	20	356 817	1998JUN19	1998JUN19	ALT
Total:	***96***				

INDIVIDUAL CLAIMS
(3 Claims - 19 Units)

(see Figure 4-1C for Gap 4 Claim)
(see Figure 4-1L for Granby I & Granby II Claims)

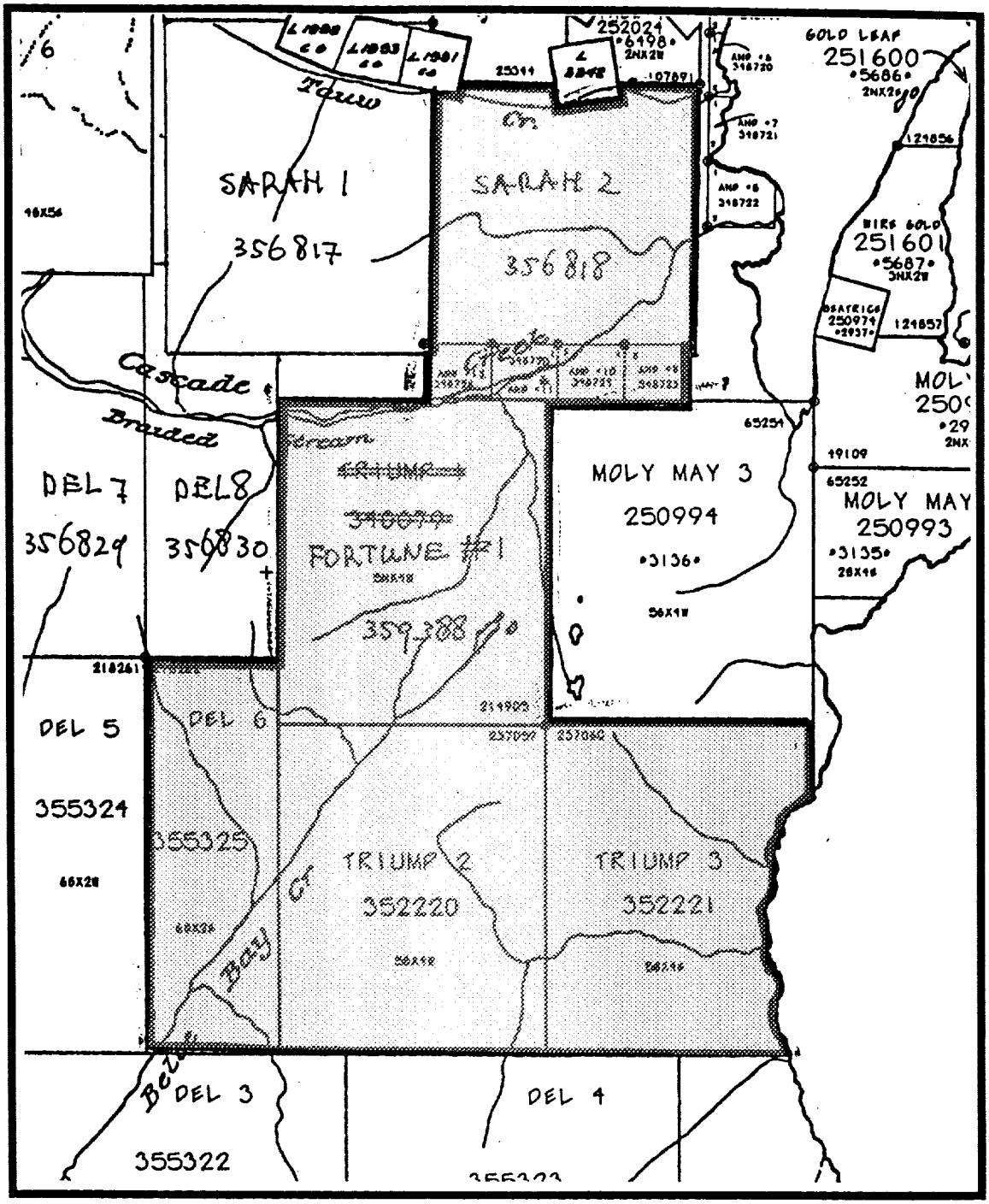
Claim Name	Units	Tenure #	Old Expiry Date	New Expiry Date	Registered Owner
Gap 4	5	352 594	1997OCT30	1998OCT30	MEA
Granby I	6	355 317	1998APR25	2000APR25	ALT
Granby II	8	355 318	1998APR25	2000APR25	ALT
Total:	***19***				



CARNEY LAKE CLAIM GROUP

CLAIM MAP

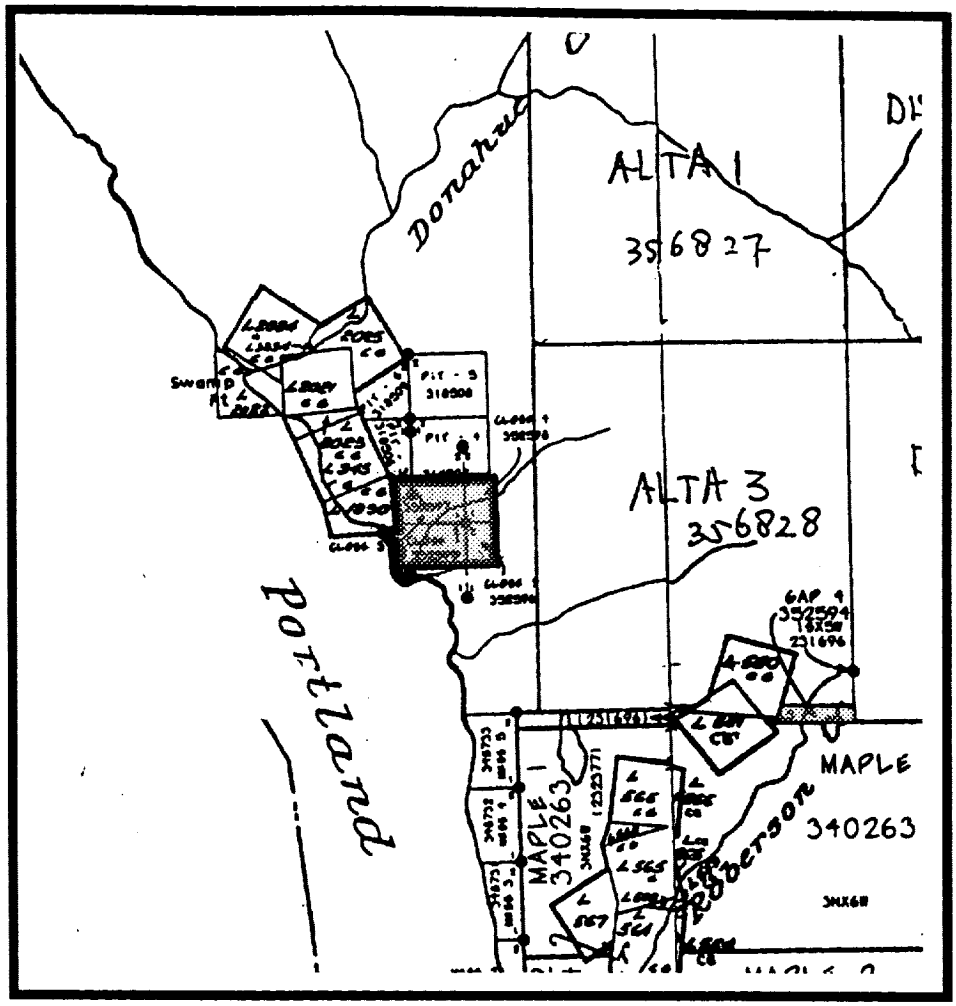
SKEENA MINING DIVISION **NTS: 103P/5W**	0 500 1000 1500 2000 meters	Fig. 4-1A



BELLE BAY CLAIM GROUP

CLAIM MAP

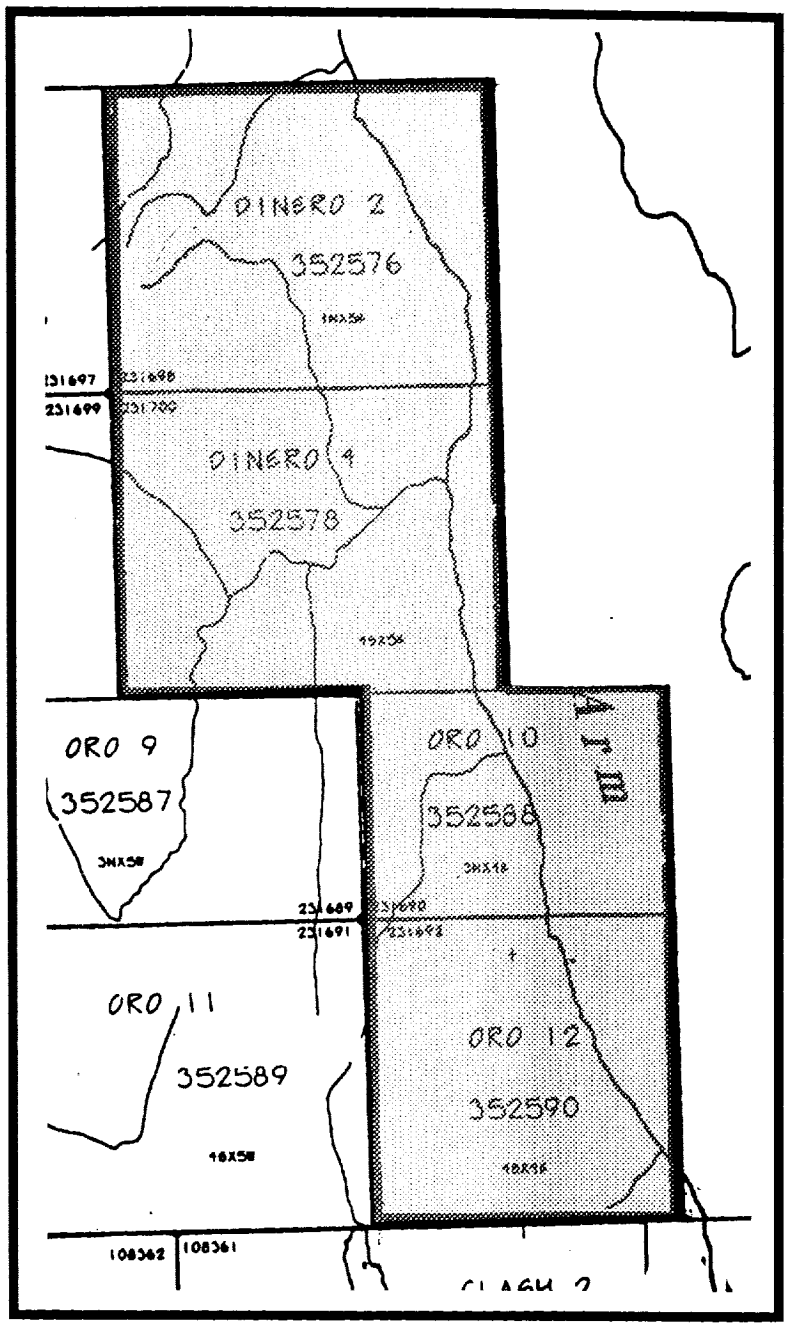
SKEENA MINING DIVISION NTS: 103P/5W	0 500 1000 1500 2000 meters	Fig. 4-1B



CLOSE CLAIM GROUP & GAP 4 CLAIM

CLAIM MAP

SKEENA MINING DIVISION NTS: 103O/8E	0 500 1000 1500 2000 meters	Fig. 4-1C



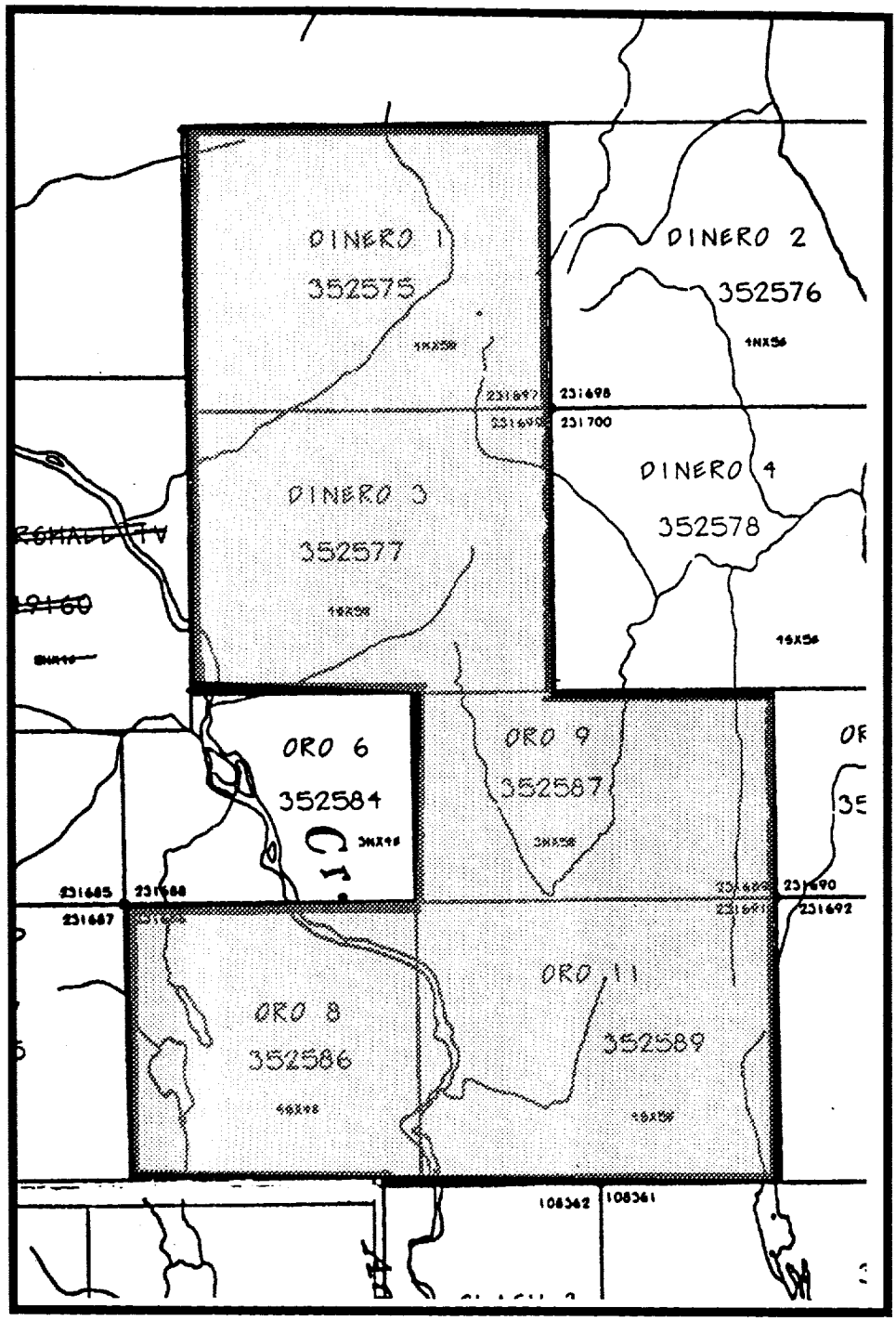
HASTINGS CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W

0 500 1000 1500 2000
meters

Fig. 4-1D



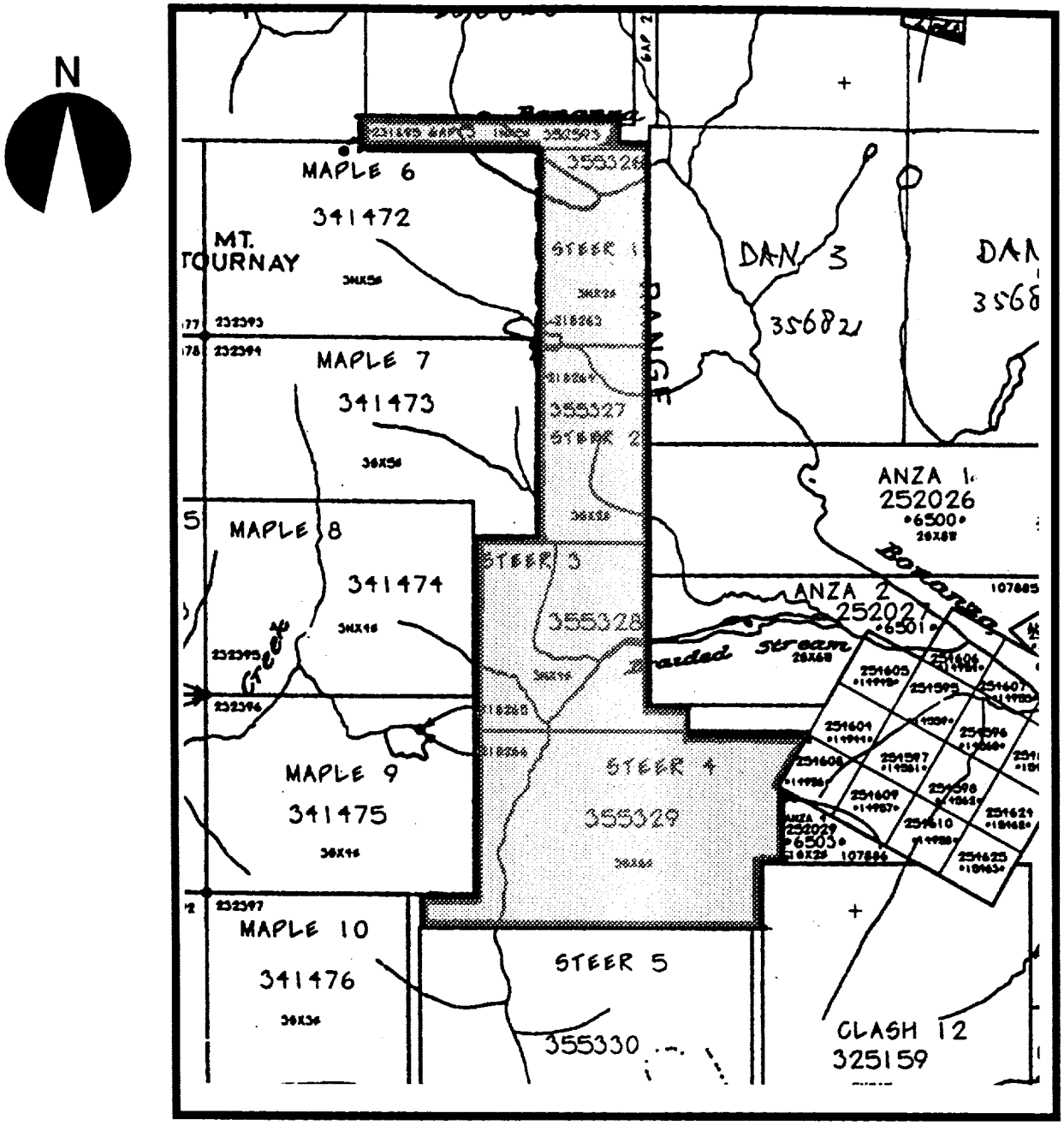
ANYOX CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W

0 500 1000 1500 2000
meters

Fig. 4-1E



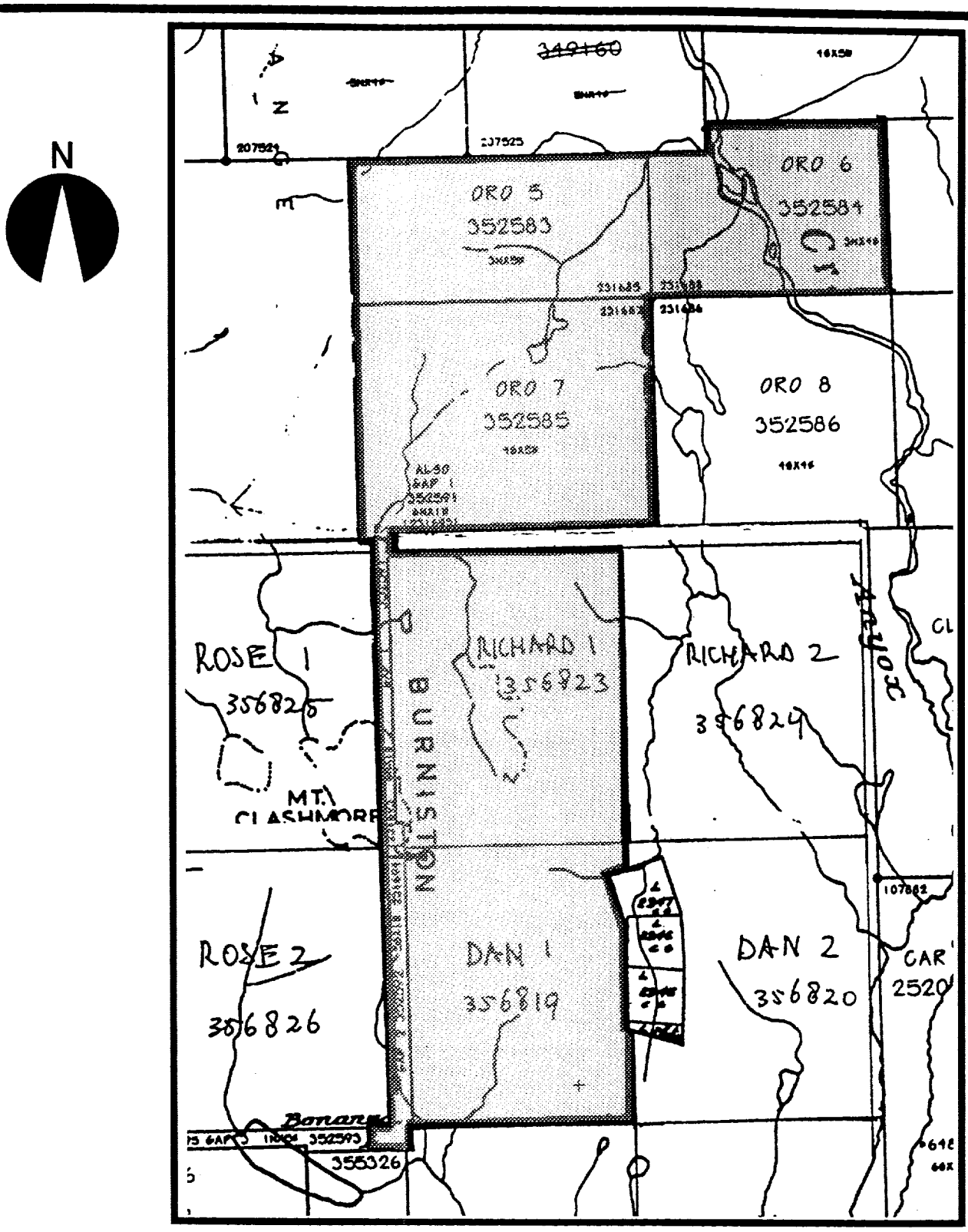
BONANZA CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

Fig. 4-1F



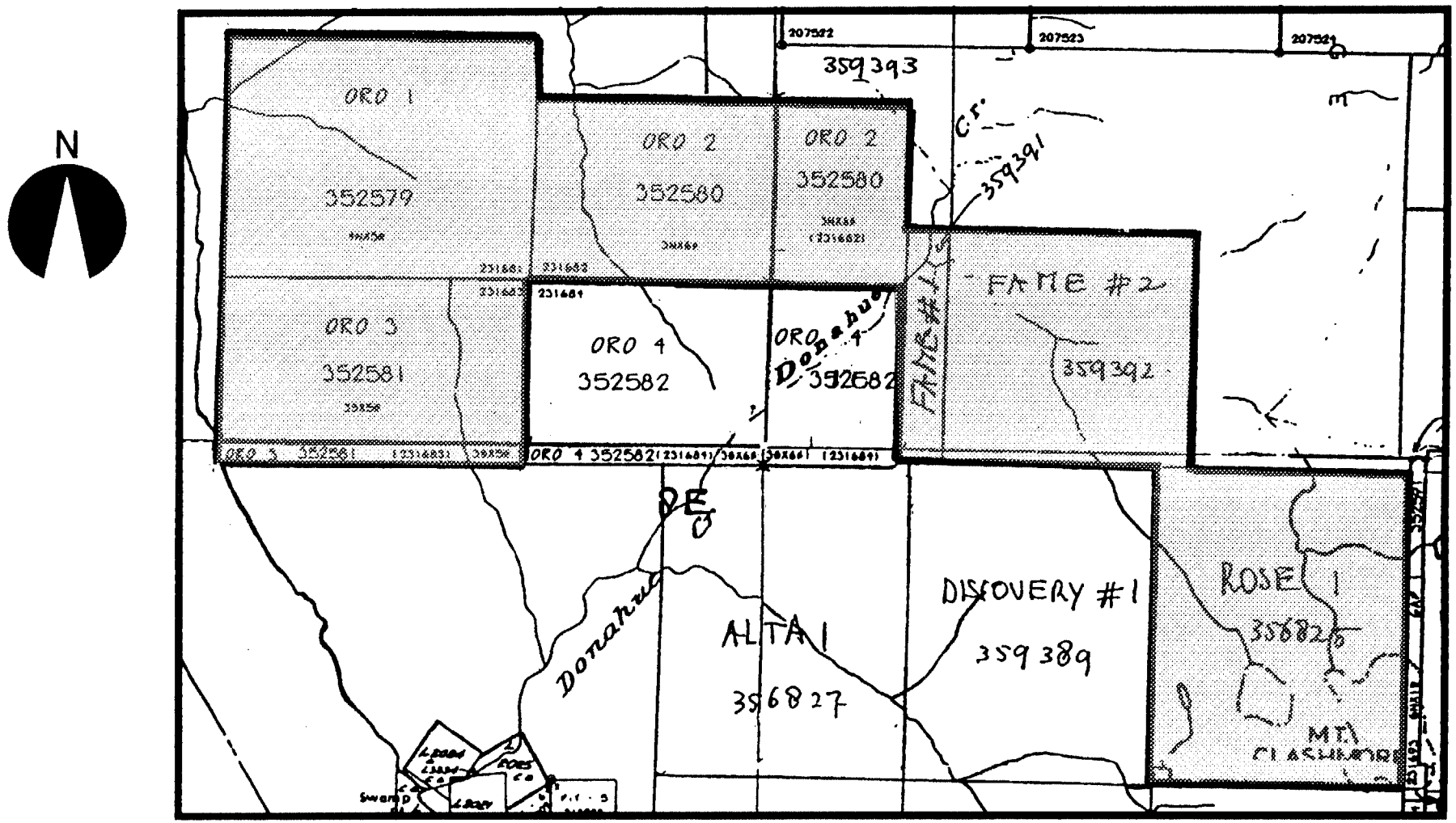
GLACIER CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W

0 500 1000 1500 2000
meters

Fig. 4-1G



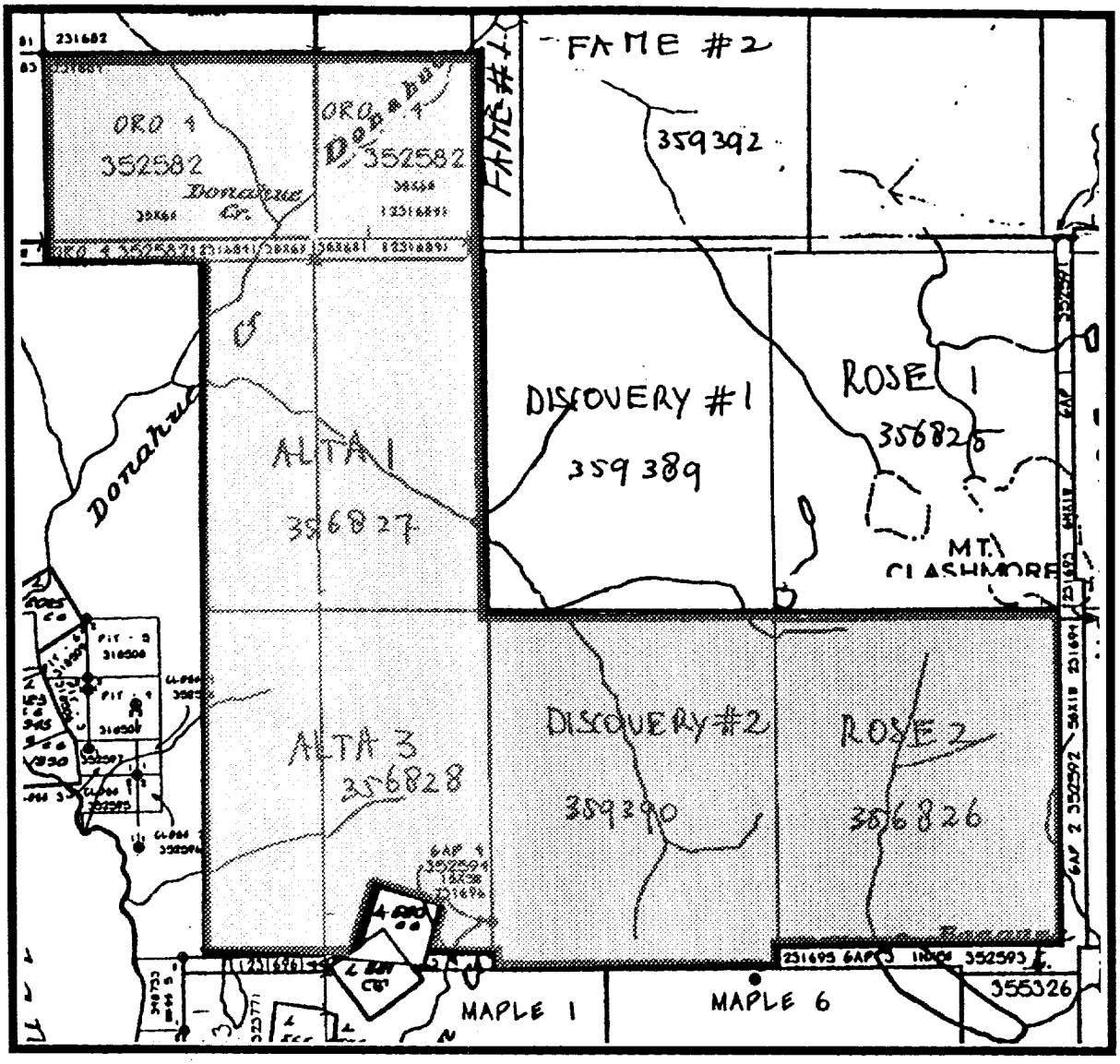
DONAHUE CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W
103O/8E; 10EO/9E

0 500 1000 1500 2000
meters

Fig. 4-1H



N

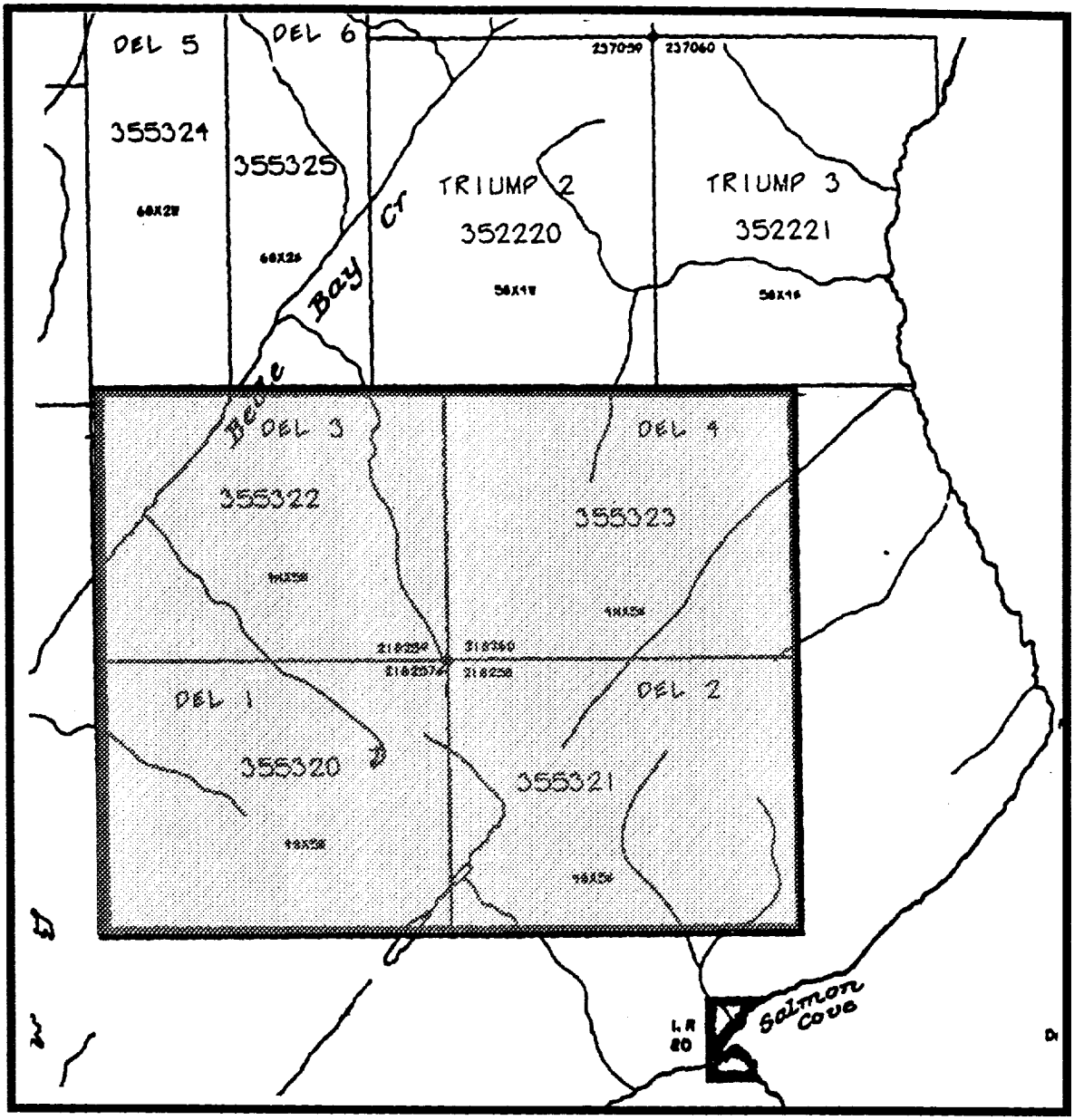
TOURNAY CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W
103O/8E; 10EO/9E

0 500 1000 1500 2000
meters

Fig. 4-11



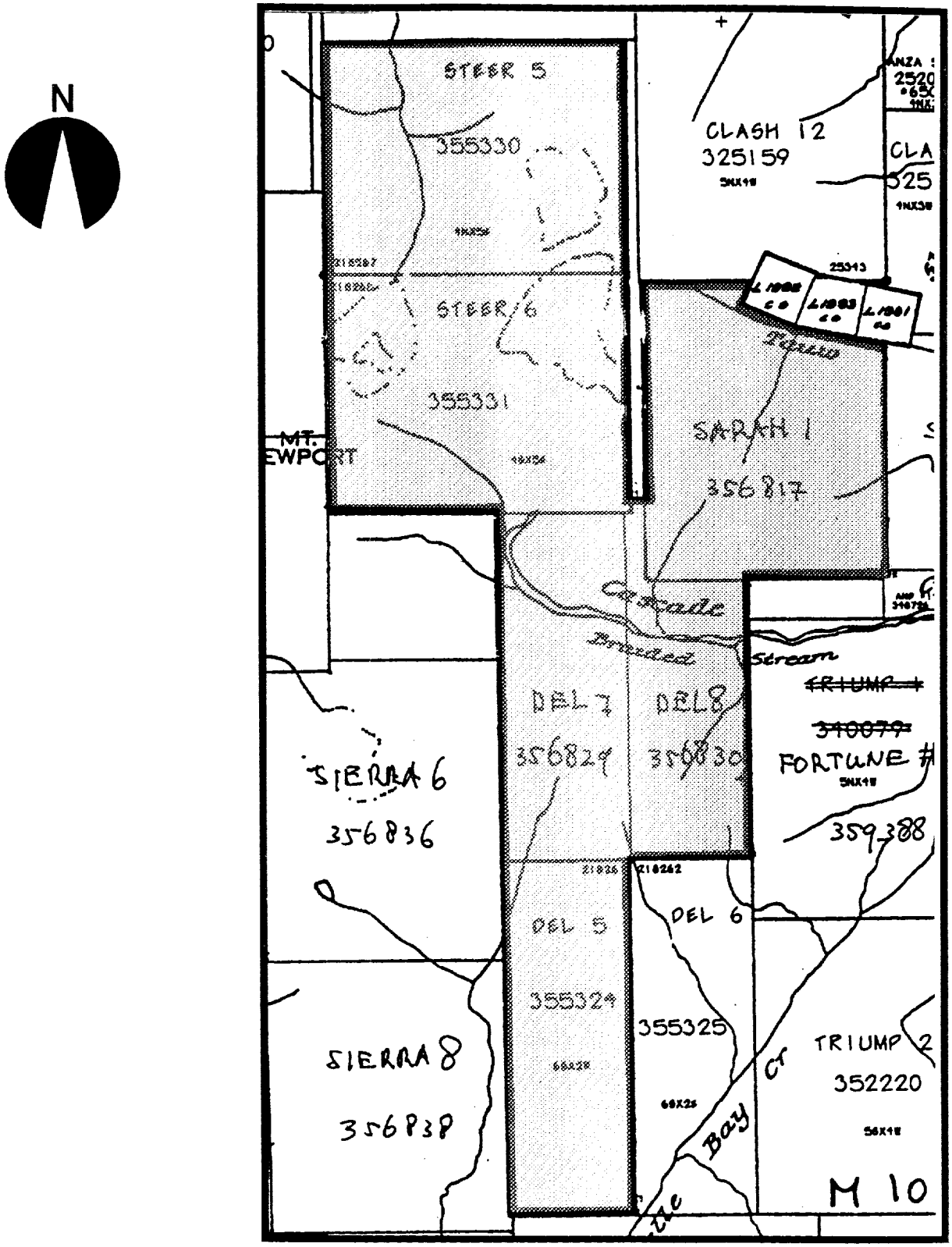
OBSERVATORY CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

Fig. 4-1J



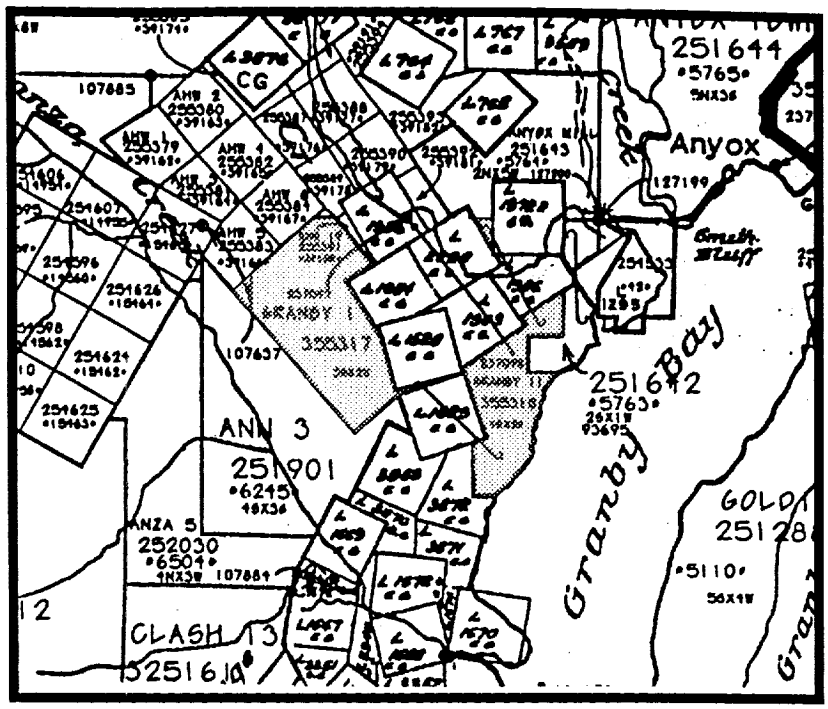
CASCADE CLAIM GROUP

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

Fig. 4-1K



N

GRANBY I & GRANBY II CLAIMS

CLAIM MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

Fig. 4-1L

5.0 PREVIOUS WORK

The majority of the previous work carried out in the Anyox area has been restricted to intense examination of the following areas:

- the narrow, high-grade gold veins on Granby Peninsula
- the copper-gold vein systems in the Maple Bay area
- the major volcanogenic "Anyox type" precious metal-bearing massive sulphide deposits in the Anyox Creek and Bonanza Creek areas
- the molybdenum occurrences near Granby Bay

It appears that very little recorded work has been carried out on the claims covered by this report.

In 1979, the provincial government carried out a Regional Geochemical Survey over the entire Anyox area. The samples taken in 1979 were reanalysed in 1995, using more sophisticated analytical methods for more elements, including gold. There are several anomalous stream Au values covered by the claims which are the subject of this report, including:

- a 313 ppb Au sample in the Donahue Creek drainage
- a 200 ppb Au sample at the south end (outlet) of the dammed lake on Anyox Creek
- two samples of 57 ppb Au and 361 ppb Au on the Belle Bay Creek drainage.

In 1994 [4], reconnaissance surveys were carried out in the area of the Sarah 1 & 2, Dan 2 to 4, Rosel 1 & 2 and Richard 1 & 2 mineral claims. These reconnaissance surveys detected numerous zones of copper, gold, silver, lead and zinc mineralization in quartz veins, gossans, siliceous argillite and sulphide lenses. Au values up to 2,920 ppb, silver values up to 240 ppm, copper values up to 55,000 ppm, lead values up to 4201 ppm and zinc values up to 16,400 were detected in rock samples as a result of this 1994 reconnaissance sampling program.

6.0 GEOLOGY

6.10 Regional Geology

The geology of the Anyox area has been updated in 1997 on a scale of 1:50,000 [2] by the Geological Survey of Canada. Pertinent portions of this map are shown in **Figures 6-1A to 6-1L**.

In the Anyox area, Jurassic volcanic and sedimentary rock units are preserved as roof pendants within the late Cretaceous to Early Tertiary Coast Plutonic Complex. The Coast Plutonic Complex has, in turn, been intruded by a series of Oligocene or younger lithologically distinctive dykes.

Contact metamorphism has elevated Jurassic units to lower greenschist facies. The area has been cut by major strike-slip, normal and thrust faults. Several phases of folding have deformed the Jurassic succession.

The oldest rock units mapped in the area are Devonian to Jurassic Clashmore Complex **(Units DJcg, DJsv, DJcsvm, Djcu & DJcmp)**. The term "Clashmore Complex" is an informal term given to the region of structurally interleaved and highly-strained metasedimentary, metavolcanic and meta-intrusive rocks which occur west of the Hazelton Group. These rocks outcrop in the northwest portion of the area.

The Hazelton Group of Lower(?) to Lower Middle Jurassic age metavolcanic rocks **(Unit JHv)** outcrop to the east of the Clashmore Complex rocks. These metavolcanic rocks consist of volcanic breccias, pillowed volcanics and massive volcanic flows.

The Bowser Lake Group of Upper Middle to Upper(?) Jurassic age turbidites (siltstones, mudstones, sandstones and conglomerates) **(Unit Jbt)** overlies the Hazelton Group metavolcanic rocks and outcrops to the east of these Hazelton Group metavolcanic rocks.

Eocene Hyder Pluton intrusives **(Unit ETH)** (Granite, quartz monzonite and granodiorite) underlie the Anyox roof pendant rocks and outcrop surrounding the Clashmore Complex, Hazelton Group and Bowser Lake Group rocks.

The most important ore deposits in the Anyox area are the volcanogenic massive sulphide deposits which include the *Hidden Creek - Anyox Deposit* and the *Bonanza Deposit.* These two deposits have recorded copper, silver and gold production totaling nearly one billion US$ gross metal value (based on 1997 metal prices). Other, smaller deposits, including the *Double Ed Deposit* and the *Redwing Deposit* are found in the same geological environment as the major producers. These deposits are all found in the heavily explored and developed area within a few kilometers of the old Anyox townsite.

The major massive sulphide deposits and the majority of the surrounding mining properties are found close to the contact between Hazelton Group metavolcanic rocks **(Unit JHv)** (volcanic breccias, pillowed volcanics and massive volcanic flows) and the overlying Bowser Lake Group turbidites **(Unit JBt)** (siltstones, mudstones, sandstones and conglomerates).

Quartzite-hosted sulphides are found within a sequence of Hazelton Group metabasalts on the *Eden Property*, located approximately 3 kilometers east of Mount Clashmore. The *Eden Property* has published reserves of 158,742 tonnes of 1.5% copper and 1.9% zinc.

In the Maple Bay area, there are several smaller vein deposits, including the *Outsider Deposit*, the *Eagle-May Queen Deposit* and the *Princess Deposit.* These deposits occur mainly as quartz veins in greenstones of the Clashmore Complex.

In the Sylvester Bay area, approximately 7 kilometers south of the old Anyox townsite, molybdenum is found in the *Molly May Deposit.* This deposit occurs as 4 zones in an Eocene, northeast-trending 2.5 x 1.0 kilometer quartz monzonite stock

6.20 Local Geology

Geological observations were made in conjunction with the geochemical sampling program. In addition, specific geologic traverses were made in some of the claim areas.

A total of 22 rock samples were sent to *Acme Analytical Laboratories Ltd.* for analysis. These samples were analysed for Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Cd, Sb, Bi and Au. These results are shown in

Appendix II. Au and Ag were determined by fire assay from a 1 assay ton sample. The other elements were analysed by digestion in 30 ml. of aqua regia, dilution to 100 ml. and analysis by Induced Coupled Plasma. Since there were too few sample values to run statistics, anomalous sample values were determined by visual inspection of the data. The only significant anomalous value was an Ag assay value of 3.08 oz/t (Sample #78614).

The locations of geological observation stations are plotted on **Figures 6 - 1A through 6 - 1L**.

Carney Lake Claim Group (see Figure 6 - 1A):

Station #E42: fine-grained dark grey massive homogenious rock.

Station #E43: massive medium-grained grey rock with feldspar and finer dark minerals.

Station #E44: very fine-grained dark grey argillite, weakly foliated.

Station #E45: very fine-grained dark grey argillite, better cleavage.

Station #E46: very fine-grained dark grey argillite, better cleavage; rock sample #78613 from quartz veins.

Station #E47: large outcrops of fine-grained argillite; major joints @ 336/72.

Station #E48: very fine-grained argillite with quartz veins, 0.5 cm. to 5 cm., mostly parallel @ 271/81; **rock sample #78614**, from a quartz vein with no visible mineralization, returned an assay of **3.08 oz/ton Ag**.

Station #E49: same outcrop (continuous).

Station #E50: argillite slightly mineralized with pyrrhotite? rock sample #78615.

Station #E51: large outcrops of feldspar porphyry.

Station #E52: 0.75 m. zone, mainly quartz; rock sample # 78616.

Station #E53: at geochemical sample #138 from creek mouth; 0.5 meter quartz vein in argillite, 103/72.

Station #E54: large argillite outcrops along shore.

Belle Bay Claim Group (see Figure 6 - 1B):

Station #D50: no outcrop; near geochemical sample #44 taken from small active creek.

Station #D51: no outcrop; near geochemical sample # 45 taken from small active creek.

Station #D52: outcrop of dark grey sediments near geochemical sample #46 taken from small active creek.

Station #D53: quartz flooding at sediment/intrusive contact near geochemical sample #47 taken from small active creek; rock sample #78557 taken from quartz material.

Station #D54: near geochemical sample #48 on west branch of small creek at Station #D53.

Station #D55: outcrop of dark grey sediments near geochemical sample #49 in small active creek.

Station #D56: siliceous fine-grained rock at contact between sediments and intrusives.

Station #E22: at geochemical sample #119 from tributary; coarse to very coarse granite with biotite and orthoclase; leucocratic bands and patches; slightly sheared (weakly foliated); joints @ 132/23, 122/67 and 190/83.

Station #E24: at geochemical sample #121 in major creek; cobbles and boulders in many varieties.

Station #E25: at geochemical sample #122 from minor creek; no outcrop.

Station #E55: biotite hornblende granite with scattered quartz veining 1 cm. to 5 cm.; mainly vertical, trending 315^0; rock sample #78617.

Close Claim Group & Gap 4 Claim (see Figure 6 - 1C):

Station #D29: no outcrop or float observed at lake outlet near geochemical sample # 29 from small intermittent creek.

Station #E31: dark grey fine-grained homogenious rock outcrops near geochemical sample #127 from poor drainage.

Hastings Claim Group (see Figure 6 - 1D):

Station #D1: outcrop of granitic intrusive in small cliff near swampy area; near geochemical sample #1 at small inactive creek.

Station #D2: granitic intrusive float blocks near geochemical sample #2 at medium-large active creek.

Station #D3: outcrop of granitic intrusive near geochemical sample #3 in small active creek running through swampy area.

Station #D10: granite intrusive float blocks near geochemical sample #10 in small trickle creek.

Station #D11: granite intrusive float blocks near geochemical sample #11 in small trickle creek.

Station #E1: massive coarse granite in scattered outcrops near geochemical sample #101 in level swampy area with small drainage.

Station #E2: no outcrop near geochemical sample #102 from main channel of small creek.

Station #E3: 10 m. exposure of light-coloured biotite granite;, homogenious, no veining; joints @ 303/88 (distinct, regular on 1/2 to 1 m. scale), 35/83 (distinct,

irregular on 1/4 to 1 m. scale), 344/06 (similar to 35/83); rock sample #78601 taken for analysis.

Station #E4: no outcrop near geochemical sample #103 from small side drainage.

Station #E5: no outcrop near geochemical sample #104 from slightly larger drainage.

Station #E29: at geochemical sample #125 from creek above waterfall; sediments with fine-grained dark grey banded variety.

Anyox Claim Group (see Figure 6 - 1E):

Station #D4: outcrop of granitic intrusive below lake near geochemical sample #4 in small inactive creek running through intrusive rubble.

Station #D5: outcrop of granitic intrusive with 20 cm. quartz vein trending 026^0 near geochemical sample #5 from medium-sized active creek.

Station #D6: outcrop of medium grey, highly siliceous volcanic rock in medium-sized active creek near geochemical sample #6.

Station #D8: outcrop of granitic intrusive near geochemical sample #8 in small intermittent creek.

Station #D9: granitic intrusive float blocks near geochemical sample #9 in small active creek.

Station #D12: granitic intrusive float blocks near geochemical sample #12 in small creek with some standing water.

Station #D26: outcrop of granitic intrusive near geochemical sample #26 in medium-sized active creek.

Station #D27: outcrop of granitic intrusive near geochemical sample #27 in smaller active creek.

Station #E6: no outcrop near geochemical sample #105.

Station #E7: outcrop of homogeneous granite.

Station #E8: blocks of biotite granite near geochemical sample #106 from creek in major valley.

Station #E12: at geochemical sample #109

Station #E13: at geochemical sample #110 from small creek; scattered outcrops of coarse undeformed hornblende-biotite granite; major joints @ 226/74 and 130/69; rock sample #78605.

Station #E14: at geochemical sample #111 from small creek; rock sample #78606 from 10 cm. "bull quartz" vein in dark grey medium-grained dyke like basic rock with scattered pyrite; rock sample #78607 from massive basic rock.

Station #E28: at geochemical sample #124; coarse granite with biotite and hornblende; joints @ 282/22.

Bonanza Claim Group (see Figure 6 - 1F):

Station #D32: boulders of highly deformed intrusive and volcanic rocks near geochemical sample #32 from medium-large creek draining into small lake.

Station #D33: outcrop of dark grey massive fine-grained rock with minor pyrite near geochemical sample #33 from medium-sized creek in small canyon.

Station #D34: no outcrop or float observed near geochemical sample #34 from small dried up creek.

Station #E35: at geochemical sample #131 from outflow of Bonanza Lake; outcrops of grey fine-grained homogenious rock; rock sample #78611.

Station #E36: at geochemical sample #132 from creek draining small lake; siliceous fine-grained greenish grey rock with fine pyrite.

Station #E37: at geochemical sample #133; massive light grey granite; joints @ 48/86, 137/75 and 141/24.

Station #E38: at geochemical sample #134; no outcrop.

Station #E39: at geochemical sample #135; no outcrop; rock sample #78612.

Station #E40: at geochemical sample #136; no outcrop.

Station #E41: at geochemical sample #137; dark grey massive homogeneous rock outcrop.

Glacier Claim Group (see Figure 6 - 1G):

Station #D7: outcrop of light grey volcanic rock with minor pyrite near geochemical sample #7 at medium-sized creek flowing from lake outlet.

Station #D13: outcrop of well-foliated biotite-rich intrusive near geochemical sample #13 from medium-sized active creek.

Station #E10: granite intruded into basic volcanics; rock sample #78602 of basic rock with scattered quartz veinlets; granite appears sheared with fault plane (very thin mylonitic) 287/49; rock sample #78603 of 1 cm. granitic vein plus wallrock in basic rock; rock sample #78604 of loose, basic volcanic, less deformed , has abundant pyrite and some epidote at geochemical sample #107.

Station #E11: at geochemical sample #108 in small creek with boulders and cobbles of granite.

Station #E15: at geochemical sample #112 in major creek; large granitic outcrop.

Station #E17: at geochemical sample #114 in small dry creek bed.

Donahue Claim Group (see Figure 6 - 1H):

Station #D14: granitic intrusive float blocks in swampy area with small poor creek drainage at geochemical sample #14.

Station #D15: no observable outcrop or float near geochemical sample #15 in small trickle creek.

Station #D17: outcrop of dark grey-green highly siliceous chloritized intrusive with minor pyrite near geochemical sample #17 in medium-large creek.

Station #D18: no outcrop or float observed in logged-off area near geochemical sample #18 in intermittent trickle creek.

Station #D19: no outcrop or float observed in logged-off area near geochemical sample #19 in intermittent trickle creek.

Station #E16: at geochemical sample #113 in major creek.

Station #E18: at geochemical sample #115 in major creek; grey fine-grained massive volcanic rock with pyrite.

Tournay Claim Group (see Figure 6 - 1I):

Station #D16: outcrop of biotite-rich chloritized intrusive with minor pyrite at cliff near waterfall near geochemical sample #16.

Station #D28: dark grey slaty sediments with interbedded lighter coloured sediments outcrop near geochemical sample #28 in medium-sized active creek; intermittent quartz veining observed in creek; rock sample #78551 across 20 cm. quartz vein taken for assay; second phase narrow quartz stringers cut across sediments.

Station #D30: blocky and slabby deformed biotite-rich foliated intrusive float near geochemical sample #30; vuggy quartz float from narrow (20 cm. to 60 cm.) quartz veins on sidehill to west; sample of quartz float taken for assay as rock sample #78522.

Station #D31: outcrop of medium grey-green volcanic rock near geochemical sample #31 in medium-large active drainage; 60 cm. discontinuous quartz vein in creek assayed as rock sample #78553.

Station #E19: at geochemical sample #116 from small tributary; dark grey fine-grained well-foliated rock; rock sample #78608.

Station #E20: at geochemical sample #117 from dry creek bed.

Station #E30: at geochemical sample #126 from major creek; no outcrop; sample about 200 m. from tidewater.

Station #E32: at geochemical sample #128 from small active creek; greenish grey fine-grained siliceous rock with occasional irregular quartz veins.

Station #E33: at geochemical sample #129; outcrop of light grey massive rock.

Station #E34: at geochemical sample #130; no outcrop.

Observatory Claim Group (see Figure 6 - 1J):

Station #D20: granite boulders near geochemical sample #20 in medium-large active creek.

Station #D21: granite boulders near geochemical sample #21 in large active creek.

Station #D22: outcrop of unaltered medium-grained granitic rock near geochemical sample #22 in medium-large active creek.

Station #D23: outcrop of granitic intrusive near geochemical sample #23 in small active creek.

Station #D24: outcrop of granitic intrusive near geochemical sample #24 in medium-sized active creek.

Station #D25: outcrop of granitic intrusive near geochemical sample #25 in small active creek.

Station #E21: at geochemical sample #118 on main creek; no outcrop.

Station #E23: at geochemical sample #120; relatively unsheared granite with some sugary textures observed; joints @78/85 and 210/66.

Station #E26: at geochemical sample #123; good rock exposure in canyon; granite with quartz-rich varieties and few quartz veins from 2 cm. to 15 cm; rock samples #78609 & #78610.

Cascade Claim Group (see Figure 6 - 1K):

Station #D35: blocky and slabby rubble which includes deformed intrusives and volcanics near geochemical sample #35 .

Station #D36: blocky and slabby rubble which includes deformed intrusives and volcanics near geochemical sample #36.

Station #D47: outcrop of granite in contact with dark grey sediments; at geochemical sample #41 taken from small dry drainage.

Station #D48: outcrop of granite in contact with dark grey sediments; at geochemical sample #42 taken from small dry drainage.

Station #D49: outcrop of "dirty" granite in contact with dark grey sediments; at geochemical sample #43 taken from medium-sized active creek.

Station #E60: very fine-grained dark grey siliceous massive rock.

Station #E61: large outcrops of fine-grained dark grey rock.

Station #E62: granitic rock.

Station #E63: fine-grained rock.

Station #E64: fine-grained dark grey massive rock with well-developed thin bands (appears sedimentary).

Station #E65: granite contact.

Station #E66: argillite cut by 5 m. wide medium-grained diabase dyke.

Station #E67: argillite with scattered irregular quartz veins.

Station #E68: well-bedded argillite; rock samples # 78619, #78620, #78621.

Station #E69: well-bedded argillite; quartz is common, scattered in irregular veins, blebs and lenses; rock sample #78622.

Station #E70: 2 m. wide zone rich in quartz veins; main vein is 1 m. thick in argillite.

Granby I & Granby II Claims (see Figure 6 - 1L):

Station #D37: outcrop of dark grey fine-grained sediments with minor fine-grained pyrite; bedding @ 037/77E; major cross-fracturing @ 088/75N; narrow (2 cm.) quartz ribbons conform with bedding; same outcrop continues to Station #D38.

Station #D38: outcrop of dark grey fine-grained sediments (siltstone?) with narrow (2 cm. to 5 cm.) quartz veinlets and ribbons conformable with and cross-cutting bedding; same outcrop continues to Station #D39.

Station #D39: same outcrop as Station #D37 & D38; thin quartz plating on fracture surfaces; bedding @ 050/88S; same outcrop continues to Station #D40.

Station #D40: 15 cm. quartz lens, conformable with sediment bedding; rock sample #78554; same sediments continue to Station #D41.

Station #D41: same sediments near geochemical sample #37 from head of small active creek.

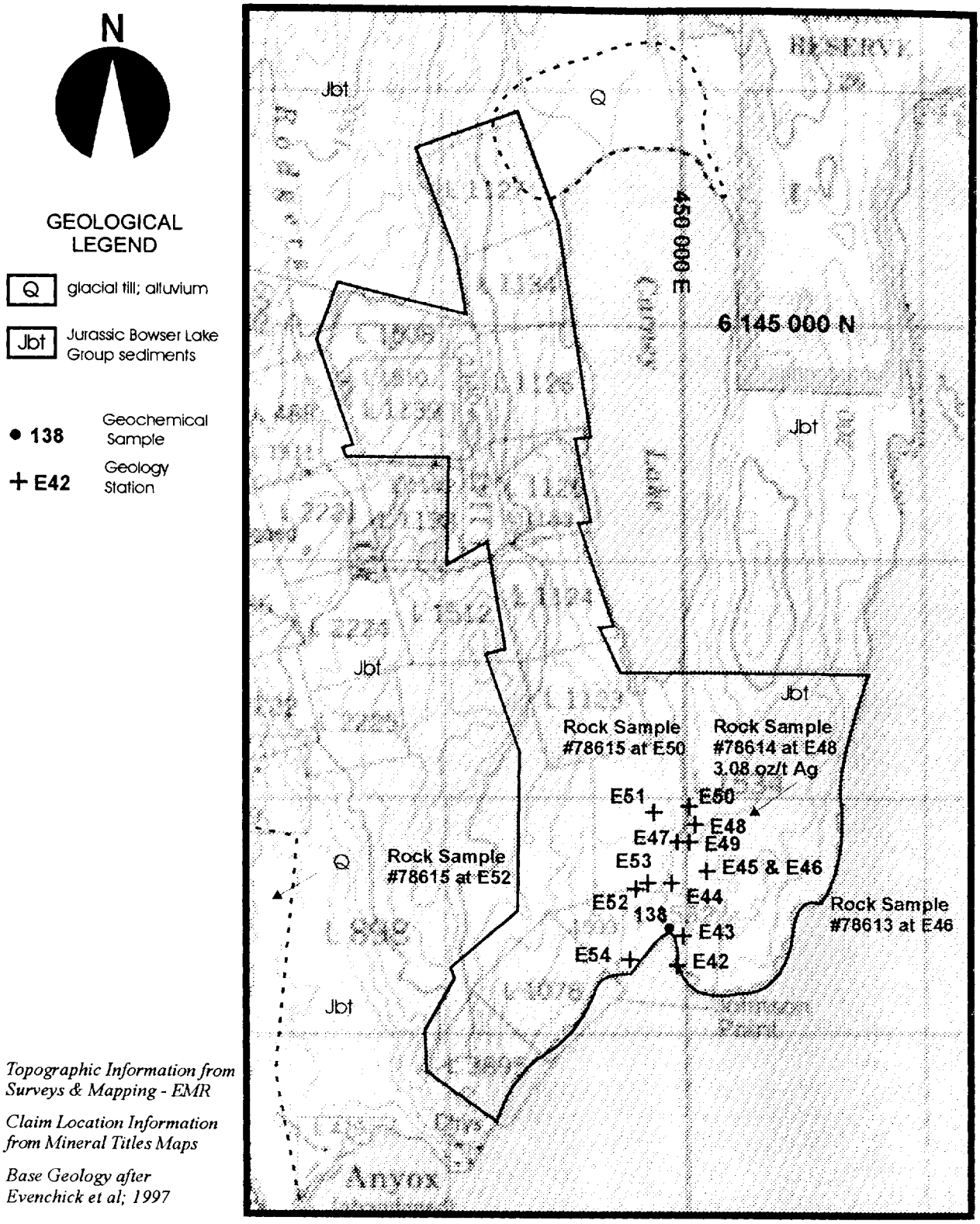
Station #D42: no outcrop near geochemical sample #38 in same small active creek.

Station #D43: massive quartz in pyrrhotite-rich dark grey sediments; malachite staining; beginning of pitted area which continues down east side of creek; rock sample #78555 taken of quartz material.

Station #D44: 75 cm. wide quartz vein dipping shallowly to north in 30 m. x 60 m. pitted area; rock sample #78556 of quartz vein taken for assay.

Station #D45: geochemical sample #39 taken from small creek near dump with old track visible, near south end of diggings.

Station #D46: geochemical sample #40 taken from small active creek.



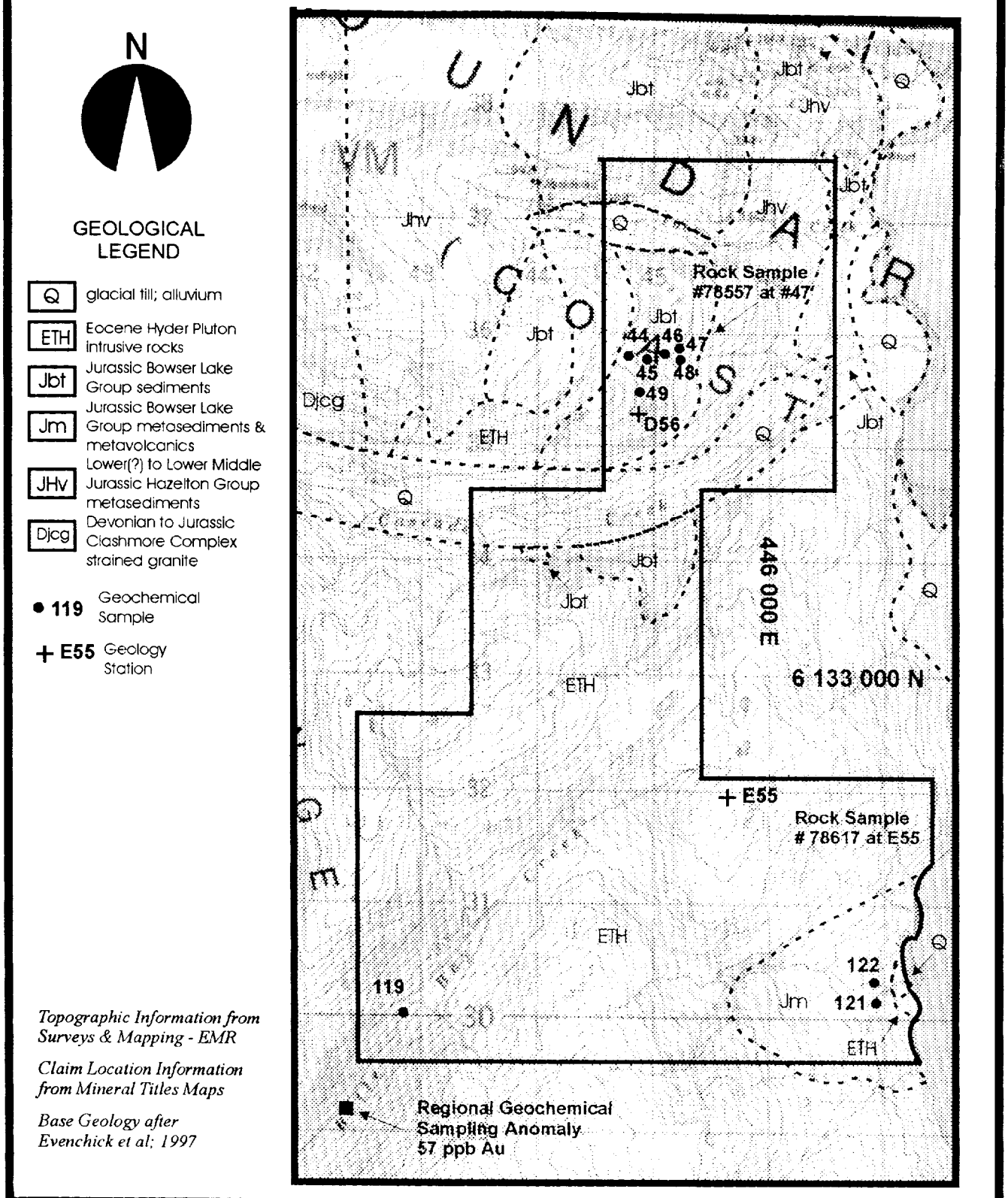
CARNEY LAKE CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 250 500 750 1000
meters

FIG. 6-1A



BELLE BAY CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

FIG. 6-1B

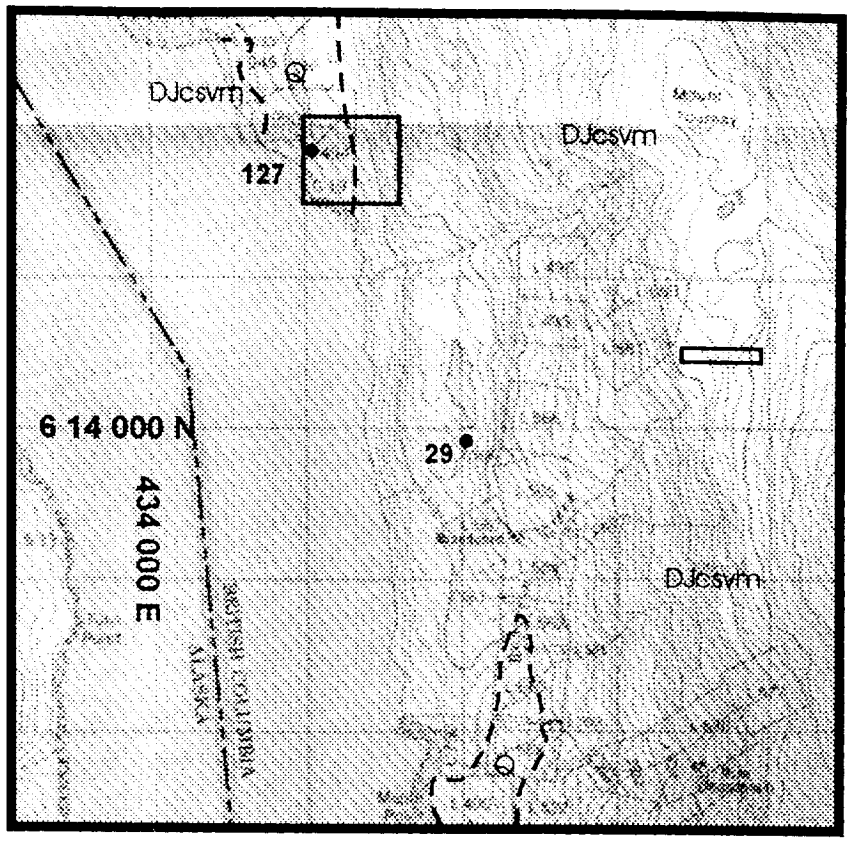
N

GEOLOGICAL LEGEND

Q — glacial till; alluvium

DJcsvm — Devonian to Jurassic Clashmore Complex strained granite

• 127 Geochemical Sample



Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al; 1997

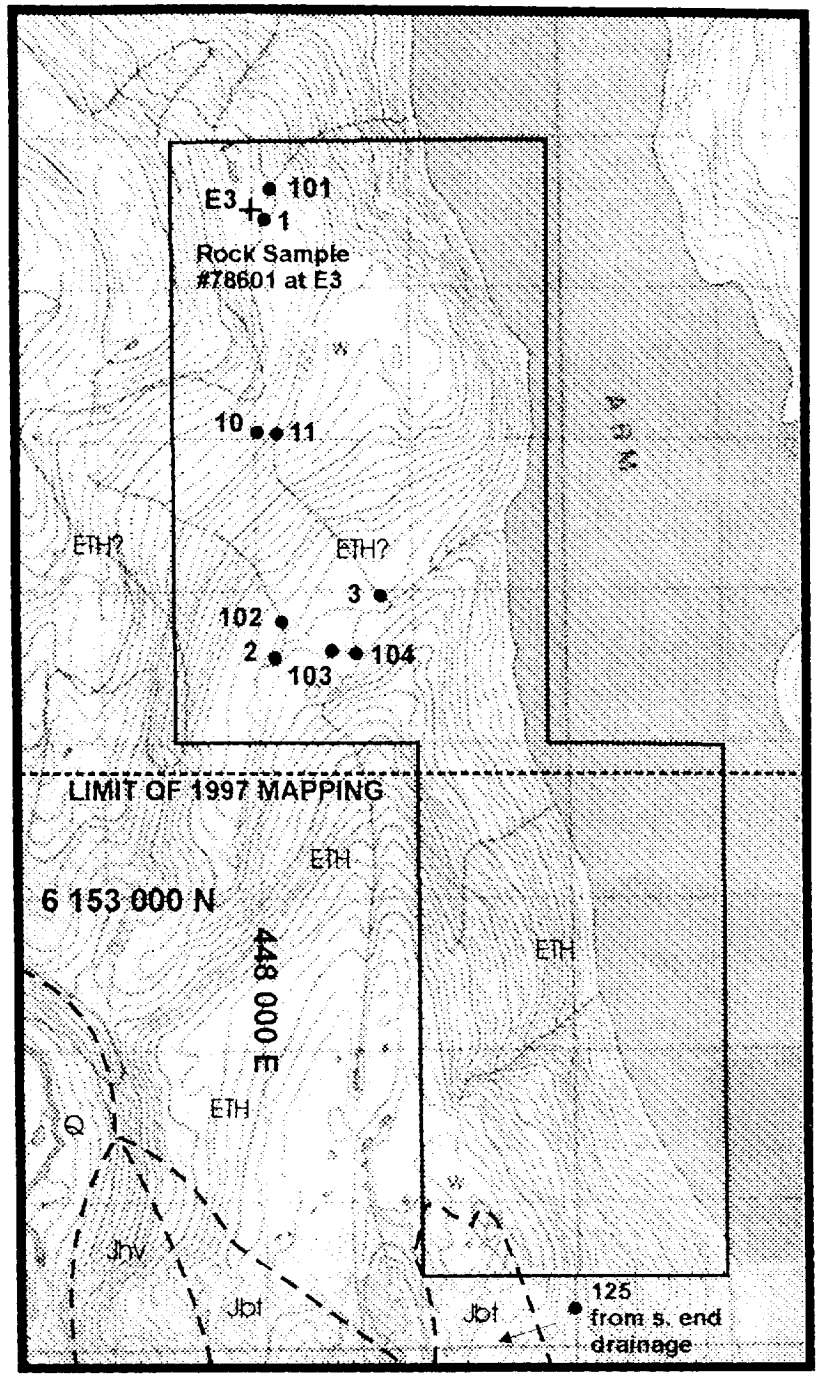
CLOSE CLAIM GROUP & GAP 4 CLAIM

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103O/8E

0 500 1000 1500 2000
meters

FIG. 6-1C



Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al; 1997

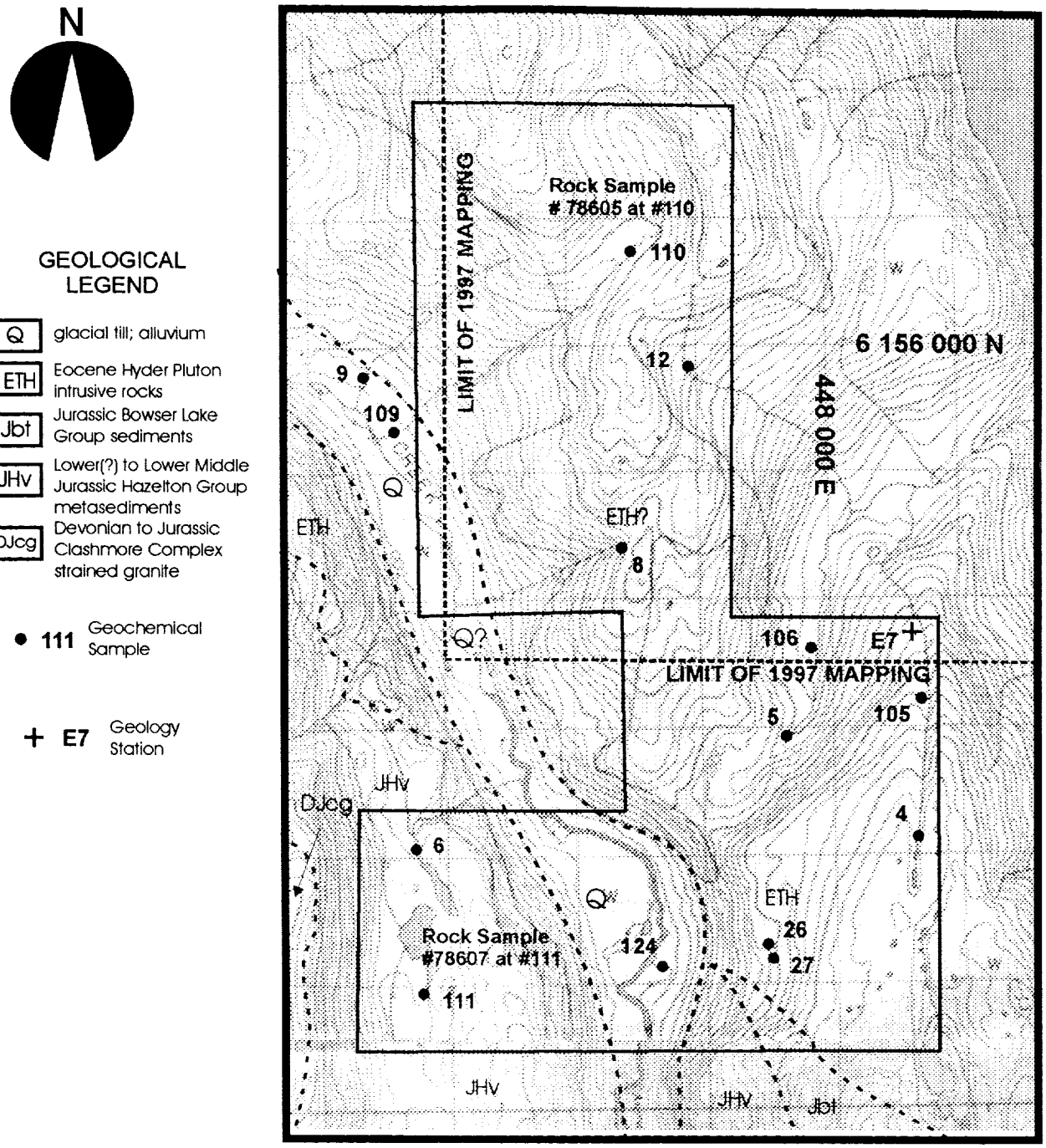
HASTINGS CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W

0 500 1000 1500 2000
meters

FIG. 6-1D



Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al; 1997

ANYOX CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W

0 500 1000 1500 2000
meters

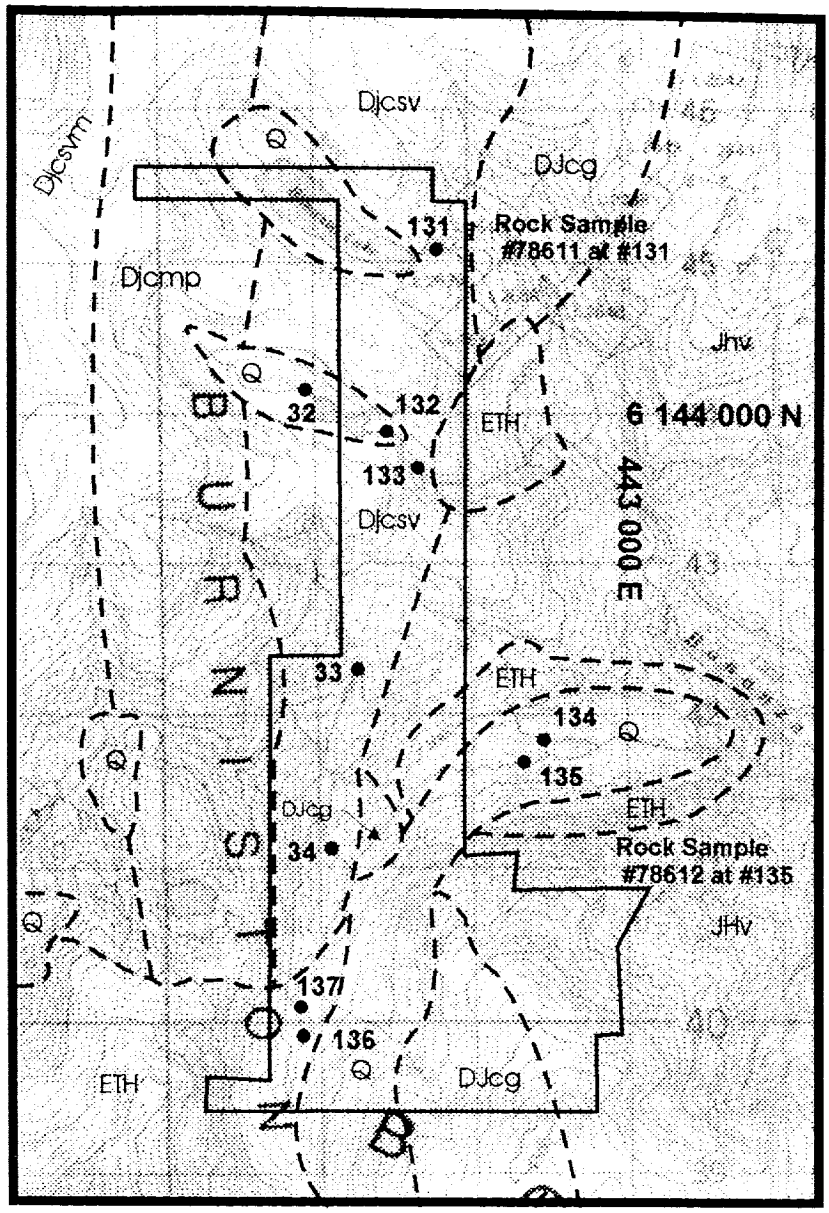
FIG. 6-1E

N

GEOLOGICAL LEGEND

Q	glacial till; alluvium
ETH	Eocene Hyder Pluton intrusive rocks
JHv	Lower(?) to Lower Middle Jurassic Hazelton Group metasediments
DJcg	Devonian to Jurassic Clashmore Complex strained granite
Djcsvm	Devonian to Jurassic Clashmore Complex metamorphosed rocks including minor marble
Djcmp	Devonian to Jurassic Clashmore Complex mafic intrusive rocks

● 134 Geochemical Sample



Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al; 1997

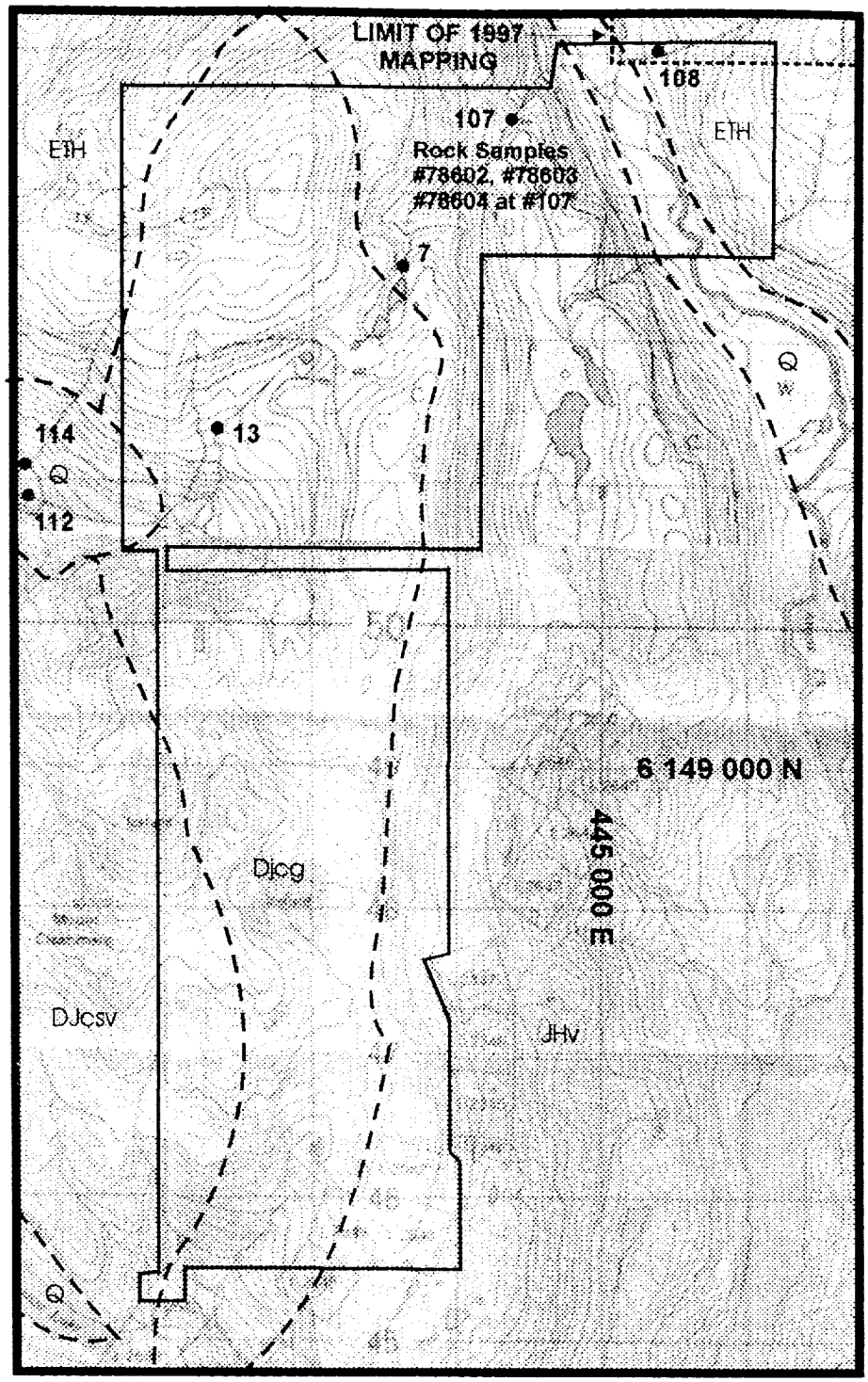
BONANZA CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

FIG. 6-1F



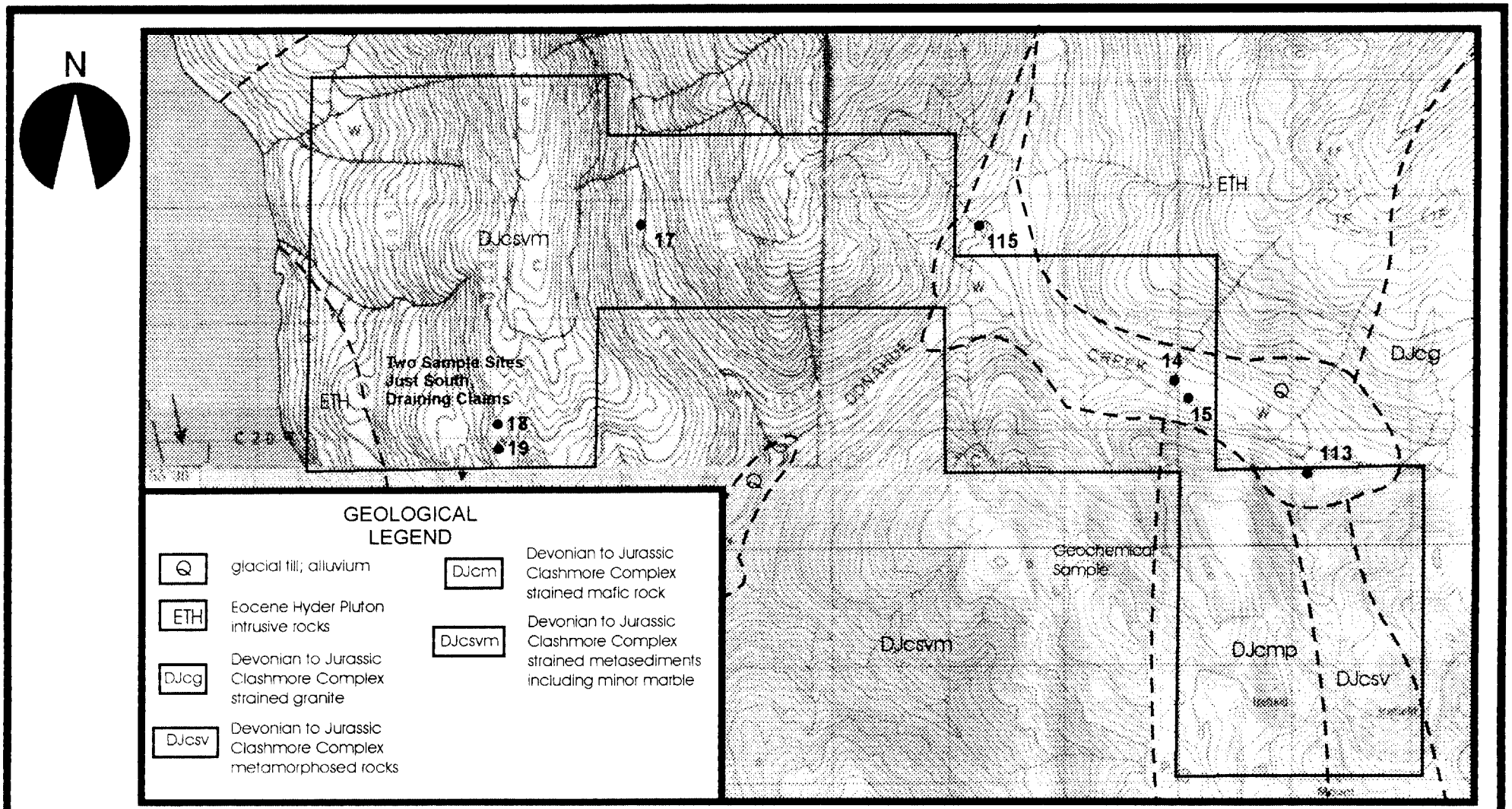
GLACIER CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W & 103P/12W

0 500 1000 1500 2000
meters

FIG. 6-1G



Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al; 1997

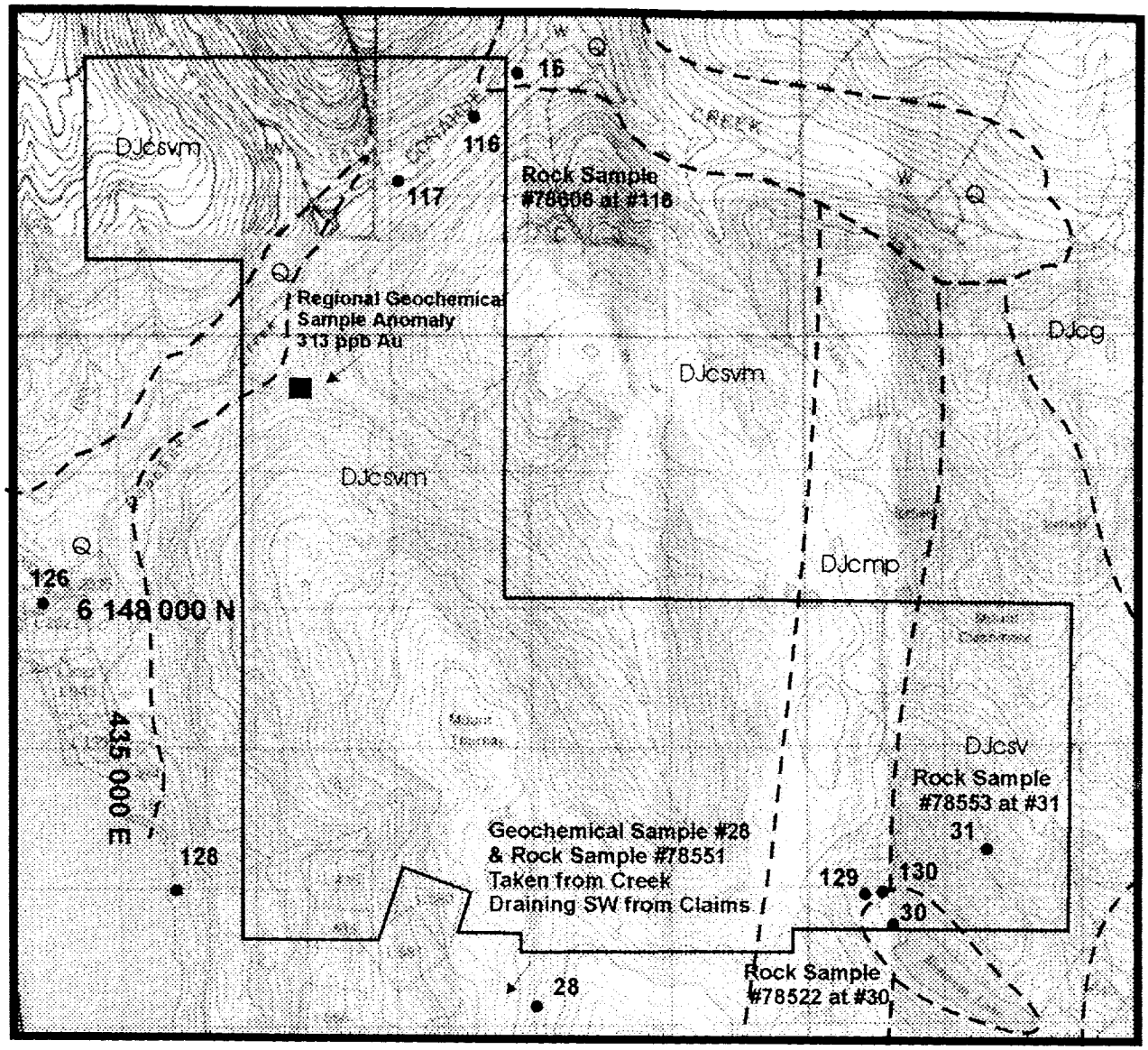
DONAHUE CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W
103O/8E; 10EO/9E

0 500 1000 1500 2000
meters

Fig. 6-1H



N

Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al, 1997

GEOLOGICAL LEGEND

- Q — glacial till, alluvium
- DJcsvm — Devonian to Jurassic Clashmore Complex strained metasediments including minor marble
- ETH — Eocene Hyder Pluton intrusive rocks
- DJcg — Devonian to Jurassic Clashmore Complex strained granite
- DJcsv — Devonian to Jurassic Clashmore Complex metamorphosed rocks
- • 126 Geochemical Sample

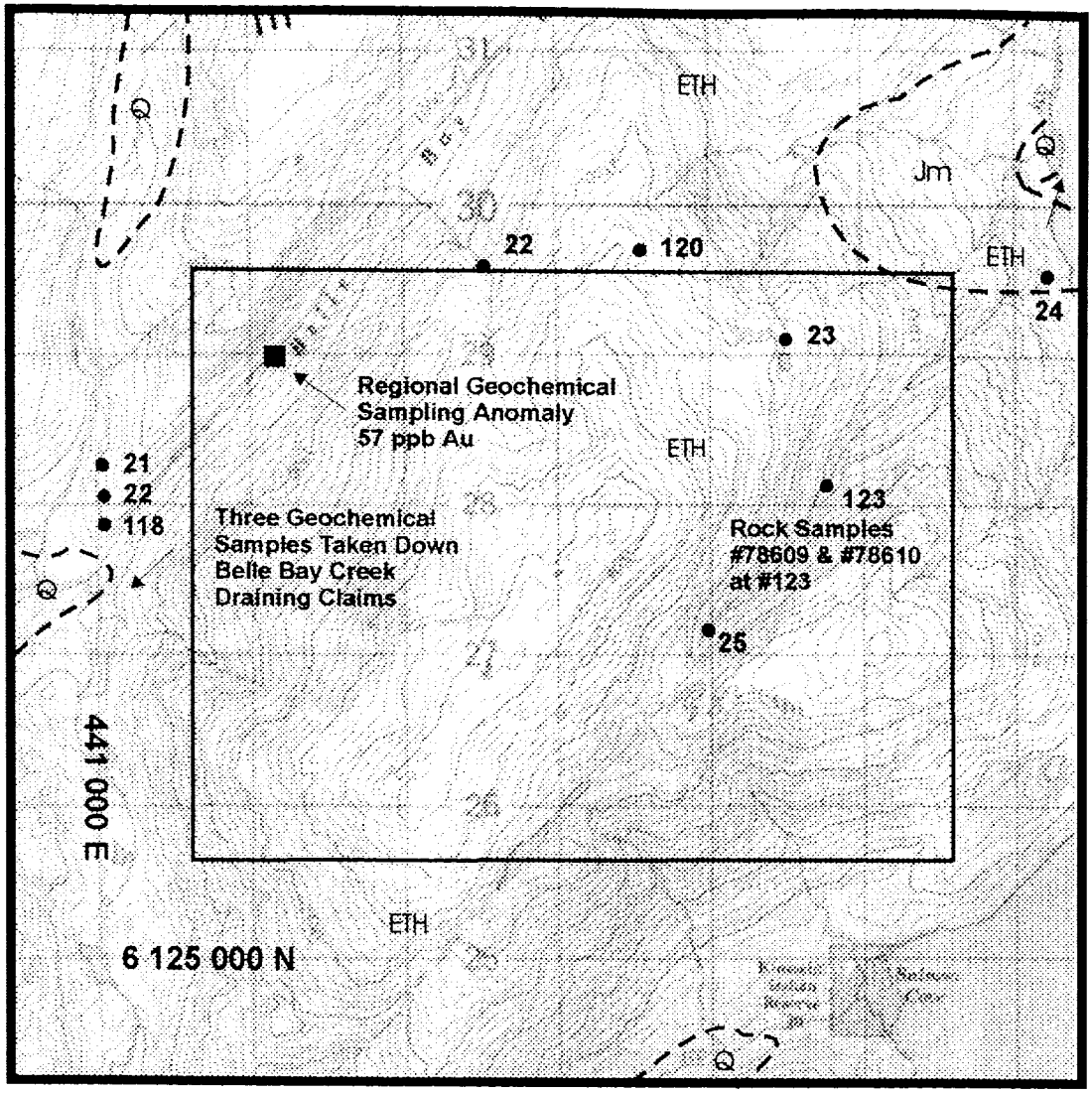
TOURNAY CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W; 103P/12W
103O/8E; 103O/9E+

0 500 1000 1500 2000
meters

FIG. 6-11



N

Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al, 1997

GEOLOGICAL LEGEND

- Q — glacial till; alluvium
- ETH — Eocene Hyder Pluton intrusive rocks
- DJm — Jurassic Bowser Lake Group strained metasediments & metavolcanics
- ● 119 — Geochemical Sample

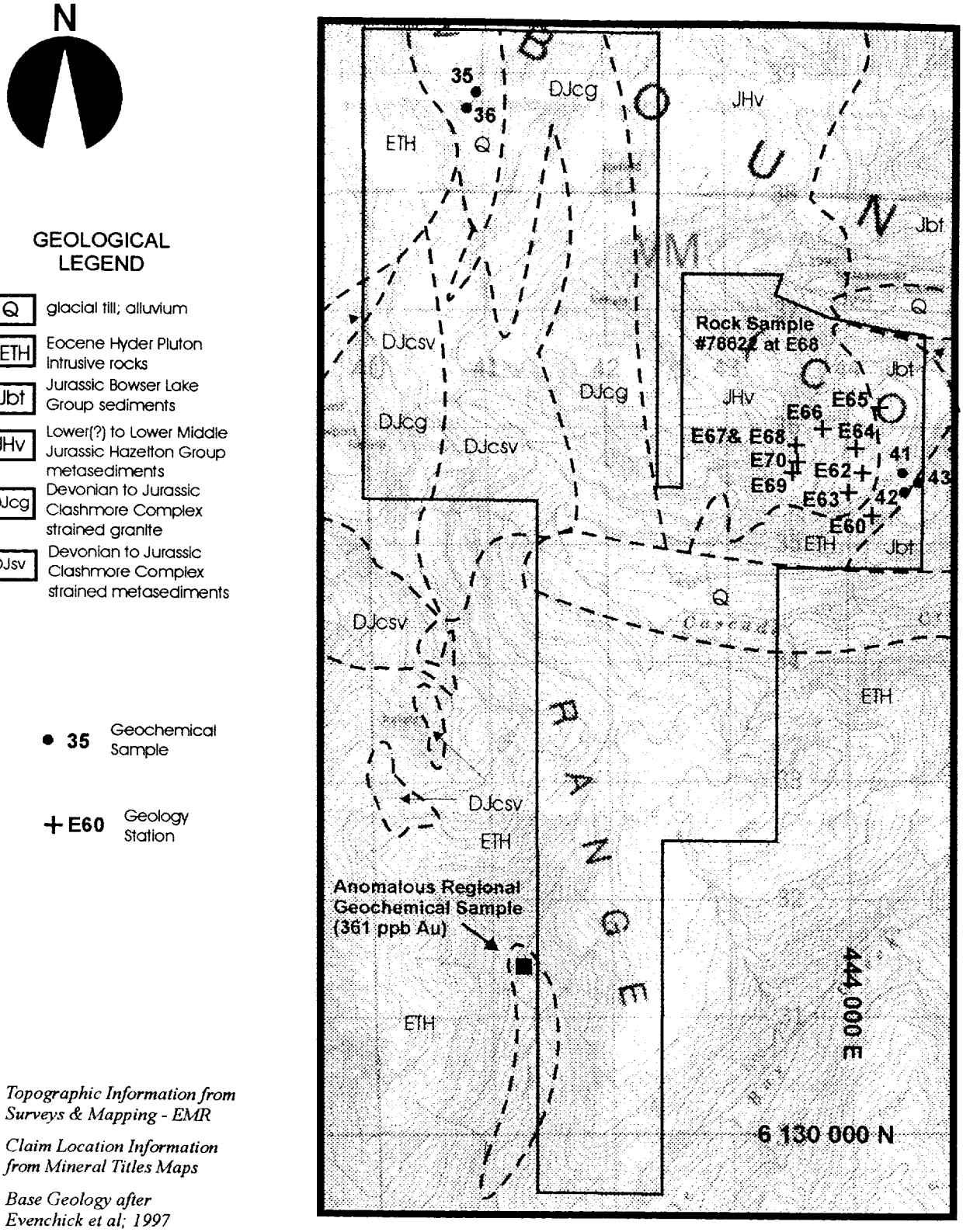
OBSERVATORY CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS:

0 500 1000 1500 2000
meters

FIG. 6-1J



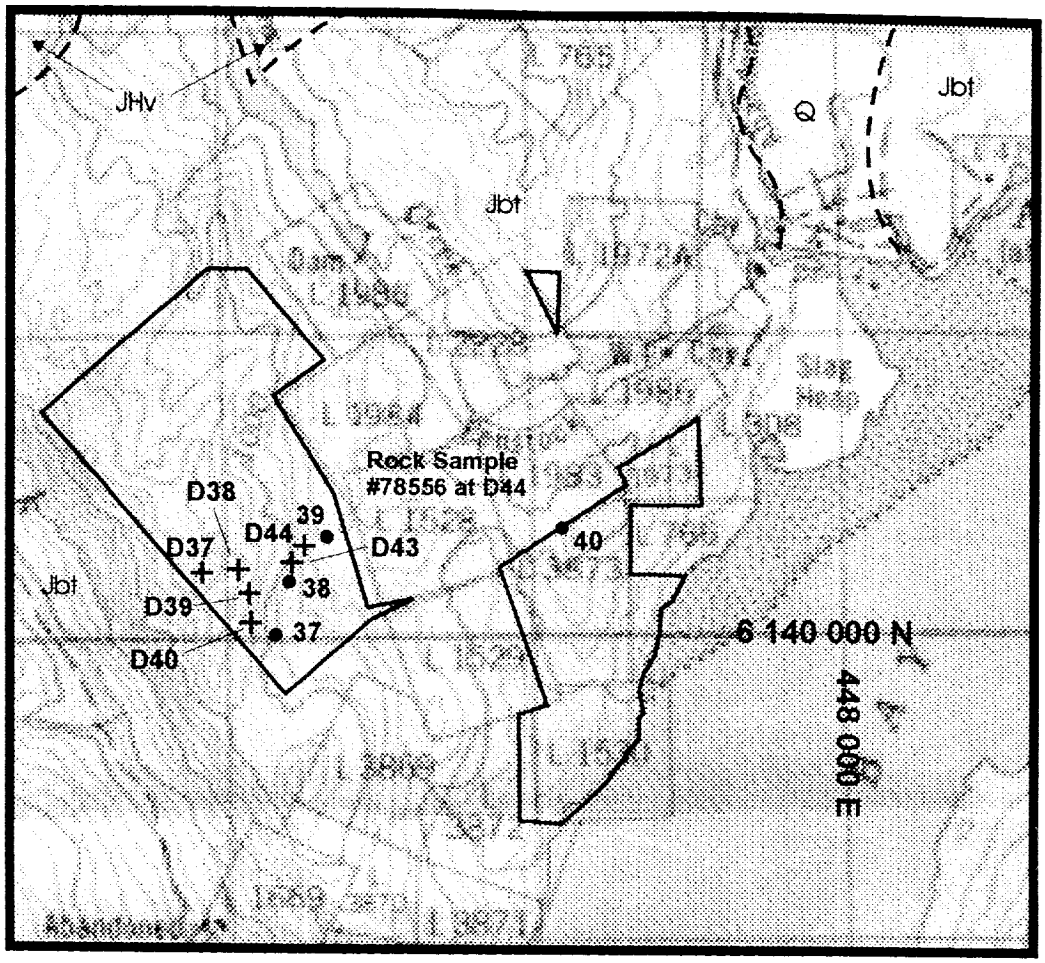
CASCADE CLAIM GROUP

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 500 1000 1500 2000
meters

FIG. 6-1K



GEOLOGICAL LEGEND

- Q — glacial till; alluvium
- Jbt — Jurassic Bowser Lake Group sediments
- JHv — Lower(?) to Lower Middle Jurassic Hazelton Group metasediments

Topographic Information from Surveys & Mapping - EMR

Claim Location Information from Mineral Titles Maps

Base Geology after Evenchick et al; 1997

- ● 38 Geochemical Sample
- +D37 Geology Station

GRANBY I & GRANBY II CLAIMS

COMPOSITE MAP

SKEENA MINING DIVISION
NTS: 103P/5W

0 250 500 750 1000
meters

FIG. 6-1L

6.30 Aerial Photo Interpretation

A preliminary interpretation of recent 1:15,000 to 20,000 air photos was carried out to aid the planning and execution of future exploration work at the Anyox Property. The following air photos covering the Property and adjacent ground were used **(see Figure 6 - 1)**:

LINE DESIGNATION	*LINE IDENTIFIER*	*PHOTO NUMBERS*
A	30BCB 94043	177 - 184
B	30BCB 94043	191 - 199
C	30BCB 94043	244 - 252
D	30BCB 94046	102 - 112
E	30BCB 94046	155 - 167
F	30BCB 94046	170 - 183
G	30BCB 94037	29 - 40
H	30BCB 94037	44 - 57
I	30BCB 94037	111- 124
J	30BCB 94037	128 - 143
K	30BCB 94037	199 - 214
L	30BCB 94037	217 - 233
M	30BCB 94037	293 - 301
N	30BCB 94038	10 - 18
O	30BCB 94038	81 - 89

The following maps were used for reference:

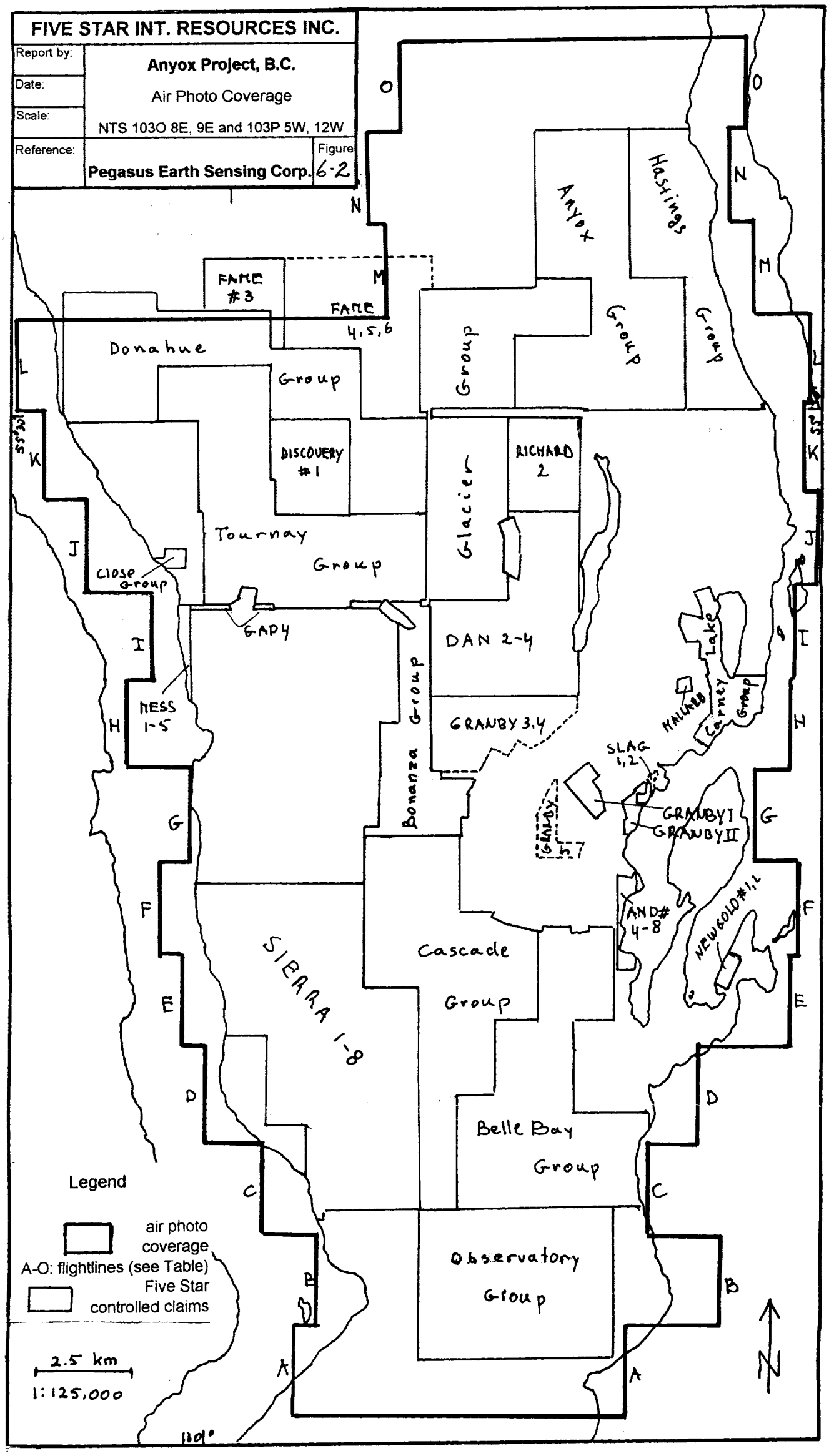
1) Topographic maps (1:50,000): NTS 103O/8, 103O/9, 103P/5 & 103P/12

2)Geologic map (1:50,000): (see Reference #2)

Information collected during the 1997 exploration work at the Anyox property and during helicopter overflights associated with this work were used for ground control. A definite air photo interpretation is planned in conjunction with detailed exploration work to be carried out in the 1998 field season.

FIVE STAR INT. RESOURCES INC.

Report by:	**Anyox Project, B.C.**	
Date:	Air Photo Coverage	
Scale:	NTS 103O 8E, 9E and 103P 5W, 12W	
Reference:	**Pegasus Earth Sensing Corp.**	Figure 6-2



INTERPRETATION, GENERAL:

Lineaments: The interpretation which is presented as an 1:50,000 map **(see Figure 7 - 2)** shows lineaments caused by joints, faults, shear zones, and lineaments caused by foliation and bedding. The difference between these two groups is generally clear. However, it is generally not possible to distinguish between lineaments within these two groups. Most lineaments of the first group are likely caused by joints. Other lineaments are thought to represent shear zones when several are parallel and closely spaced.

Faults are identified by offsets of different rock types or of other lineaments. This was only observed on a very small scale. Normal faulting, which appears the faulting style in this area, is difficult to see on air photos. Lineaments of the second group represent bedding in the Bowser Lake sedimentary rocks (see below) and represent likely another foliation (transposed bedding, axial plane foliation, etc.) in other rocks.

Lithology: Differences between different rock types are clear on the photographs in many locations with good exposure, however, geological contacts are only rarely identifiable. The precise location of these contacts depends heavily on ground observations. Therefore, for this preliminary interpretation, contacts were assumed to be as shown on the published geologic map [2], except where contacts are clearly visible on the photographs.

Leucocratic and mafic dikes were observed at several locations, mainly in areas with barren rock such as is common adjacent to glaciers.

Topography and Coverage: The topography in the Anyox area is extremely rugged and the area is not easily accessible. Elevations range from sea level to 1680 meters (Mount Clashmore). Creeks tend to cut in deeply and valleys have steep slopes. Lower areas are generally covered by forest of variable density, higher areas have patches of small trees and shrub in grassy areas. Perennial snow is common and several glaciers are present at higher elevations.

INTERPRETATION, DETAILED:

Air photo observations are summarized by lithological unit. The units are as defined by Evenchik et al. (1997) [2].

Recent, Pleistocene and Tertiary

Slag: A deposit at Granby Bay resulting from the early century Anyox copper smelter operation.

Alluvium: (common and often extensive in valleys), colluvium (on slopes) and glacial till (scattered) are not shown on the map as boundaries on the photos are often obscure.

Tv - Volcanic Breccia and Flows: An area underlain by light colored rocks with a slightly different joint pattern than the surrounding Hyder granite. Boundary is obscure due to similarity in color.

Hyder Pluton (Eocene, ETH, biotite-hornblende granite, quartz monzonite, granodiorite): The northern and southern parts of the study area, and smaller areas in the center are underlain by granitic rocks. Areas are well defined because the granite is lighter colored than most other rock types. Craggy outcrops are large and abundant at higher elevations.

Forest cover tends to be dense in areas with a soil cover, but less dense than where underlain by Clashmore Complex rocks. Weathering tends to be smoother in the south than in the north, (different phases?). Boundaries with other rock types are usually clear in well exposed areas. Most exposures exhibit dense erosion patterns along joints. Major joints with pronounced erosion are also clear in covered areas. Joint patterns vary: areas where one direction prevails, areas with regular patterns of two more or less perpendicular directions, areas with a variety of directions. Swarms of narrow mafic dikes are locally present.

Bowser Lake Group (Jurassic, JBt, mudstone, siltstone, sandstone, turbidites): This unit is present in a large north-south zone at the east side of the study area. The presence of this unit is clear in large parts of this zone due to the lineaments caused by a pronounced differential erosion along parallel bedding planes. Lineaments caused by joints are much less common than in the granites. The vegetation cover is thinner than in most areas underlain by older units. Unfortunately, evidence of folding is, because of the generally steep dipping bedding planes, much less visible than was hoped for. Folding appears common in this unit and detailed knowledge of it is important for the location of the Bowser Lake/Hazelton contact at depth.

The area indicated as underlain by Jm (highly strained metasedimentary and metavolcanic rocks) is covered by forest.

Hazelton Group (Jurassic, JHv, metavolcanic rocks): Rocks of this unit are found in a wide belt adjacent to the Bowser Lake Group. Lineaments caused by a structural foliation and by joints are common, but rocks of this unit are generally poorly exposed, (except in steep slopes and cliffs). Creeks tend to cut in deeply in this unit. The forest cover is sparse but the vegetation cover tends in lower areas to be denser than on rocks of the Bowser Lake Group.

Clashmore Complex (Devonian to Jurassic, DJCg, cataclastic to mylonitic biotite granite): A narrow belt west of the Hazelton Group is underlain by granites. The unit and its boundaries are clear in well exposed areas due to the lighter color of these rocks. Lineaments are much less common than in the Hyder Pluton. Vegetation is scarce due to the high altitude.

Clashmore Complex (Devonian to Jurassic, DJCsv DJCsvm DJCu DJCmp, deformed volcanic, sedimentary, and plutonic derived rocks): These rocks occur in a wide belt at the west side of the study area. Exposure is poor in lower areas, due to the generally thick forest cover, even on slopes. Where exposed, rocks are smoothly weathered and medium gray to dark colored. Lineaments often defined by pronounced erosion along joints are common.

OTHER OBSERVATIONS:

A major several meters wide leucocratic dike can intermittently be traced over 700 m from NW to SE. The dike cuts through Clashmore Complex and Hazelton volcanics.

Only a few of the 38 mineral occurrences listed by Evenchik [2] et al. are visible on the photos:

2 - a quarry south of Swamp Point on Portland Canal (Swamp Point, past limestone producer)

9 - tailings north of Maple Bay (Outsider, past Cu-Ag-Au-Zn producer)

3 - surface disturbance west of Big Dam Lake (Eden, Cu-Zn deposit)

11 - large pits west of Carney Lake (Hidden Creek, past Cu-Ag-Au-Co-Zn producer)
38 - large tailings area in Granby Bay, (Anyox slag heap).

7.0 GEOCHEMISTRY

7.10 Regional Geochemical Survey

The Anyox area was covered by a Provincial Government Regional Geochemical Survey [3] in 1979. Initially, the samples were not analysed for gold. Further analyses, including gold, were carried out on the samples in 1995.

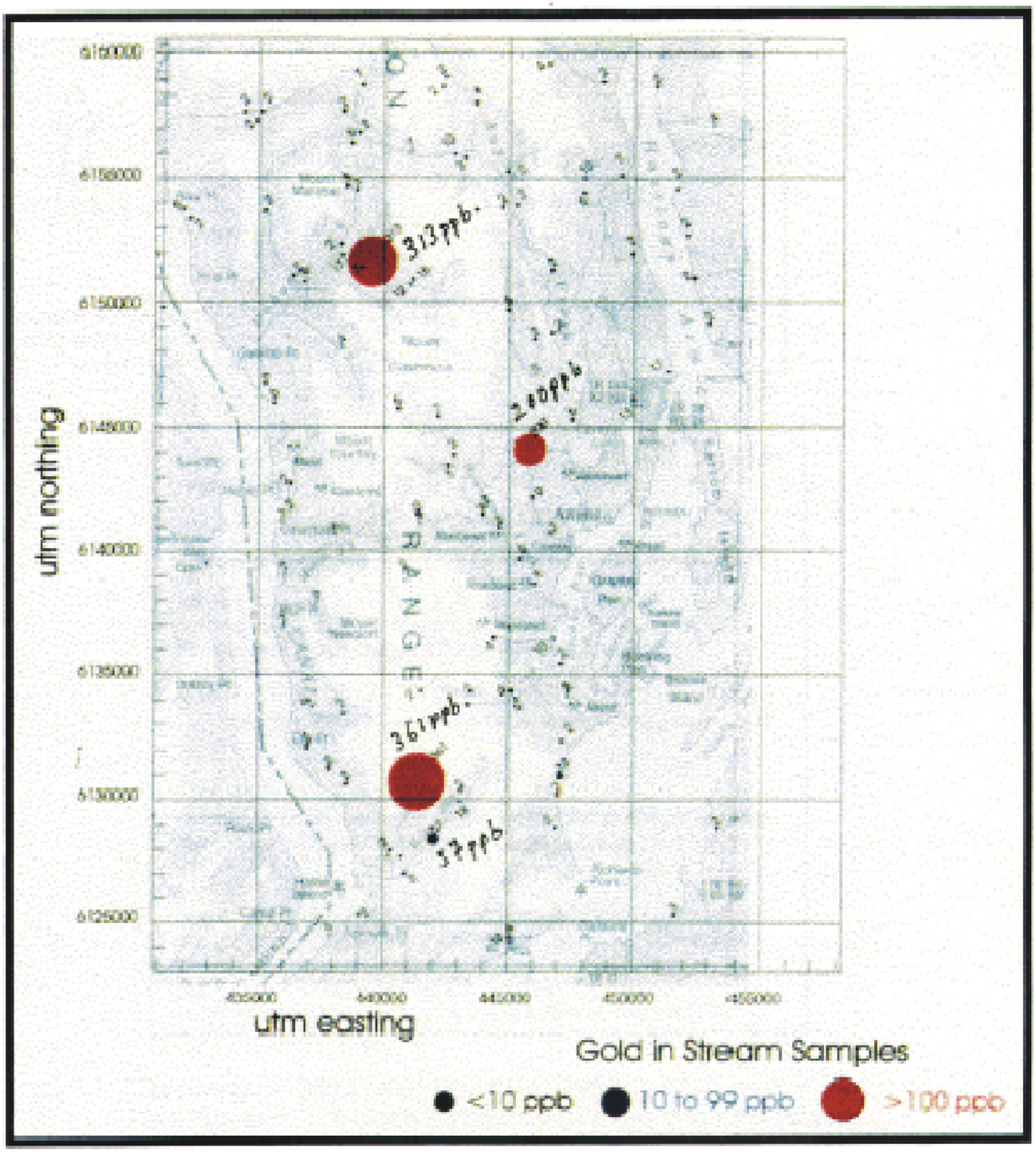
Figure 7 - 1 shows the RGS data. There are 3 highly anomalous samples located as follows:

- just below the dam on Anyox Creek (200 ppb Au).
- on a south tributary of Donahue Creek (313 ppb Au); this sample was taken on the present Tournay Claim Group **(see Figure 6 - 1I)**.
- on the main Belle Bay Creek and on a northern tributary of Belle Bay Creek (361 ppb Au & 57 ppb Au); these samples drain the Cascade Claim Group **(see Figure 6 - 1K)** and the Observatory Claim Group/Belle Bay Claim Group **(see Figures 6 - 1J & 6-1B)**.

7.20 Moss Mat & Stream Sediment Sampling

A total of 87 moss mat or stream sediment samples were taken on or immediately adjacent to claims that are the subject of this report. Moss mat sampling was chosen as a primary reconnaissance technique in the Anyox area based upon studies of surveys carried out by other workers.

Moss that grows on rocks and old logs in and adjacent to active drainages catches sediment during periods of flooding. This sediment acts as a soil for new moss growth. The amount of sediment trapped by the moss at any particular location relates to many factors. Any mineralization that is being actively eroded in the drainage basin upstream from the location where a moss sample is taken will be detected by chemical sample analysis, provided that the mineralization is strong enough with respect to its distance from the sample location. Studies have shown that gold is preferentially trapped in moss.



Source: Digital Data from B.C. Regional Geochemical Survey
RGS 43 - 103O/P - Nass River

FIVE STAR INTERNATIONAL RESOURCES INC.

Anyox Property, North-Western B.C.
Regional Geochemical Data - Gold in PPB

SKEENA M.D. NTS: 93O/6E, 9E & 93P/ 5W, 12E	0 5 10 15 approximate scale in kilometers	***Fig. 7-1***

Consequently, in certain cases analysis of moss samples can show gold while analysis of the adjacent creek sediment would show no gold.

Moss samples were gathered into 20 cm. x 30 cm. heavy plastic bags. The bags were stuffed as full as possible with moss. Samples were sent to *Acme Analytical Laboratories Ltd.* where they were analysed for 30 elements (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, W) plus Au. The 30 element analysis was carried out using the Induced Coupled Plasma technique on a 0.500 gram sample. The 0.500 gram sample is digested with 3 ml. of a mixture of 3 parts HCl - 1 part HNO_3 - 2 parts H_20. This leach is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B and W and limited for Na, K, and Al. The separate Au analysis was carried out using aqua regia/MIBK extraction and finished with GF/AA.

Laboratory data sheets are shown in **Appendix II**. An interactive computer program called *PROBPLOT* [1] was used to interpret the moss mat sampling data. This program generates standard statistics, including arithmetic and lognormal histograms, for each element under consideration. Once the mode of data distribution is determined (arithmetic or lognormal), the data is plotted on a probability graph. On this type of plot, a normal distribution plots as a straight line. Data from probability plots based on arithmetic or lognormal distributions can be partitioned into "families", or separate groups of data exhibiting normal distributions. Threshold values for these "families" can be determined interactively and used to set meaningful anomalous threshold values for each element under consideration. The raw statistical data analysis information is shown in **Appendix III**.

The following table summarizes data distribution type, anomalous threshold value and number of anomalous for each of the elements under consideration, for 87 moss mat samples:

Element	*Distribution Type*	*Anomalous Threshold*	*# of Anomalous Samples*
Mo (11)	Logarithmic	>7 ppm	12
Cu	Logarithmic	>146 ppm	11
Pb	Logarithmic	>80 ppm	2
Zn	Logarithmic	>284 ppm	4
Ag	Logarithmic	>0.79 ppm	6
Ni	Logarithmic	>82 ppm	7
Cr	Logarithmic	>70 ppm	24
V	Logarithmic	>90 ppm	32
Co	Logarithmic	>46 ppm	8
Cd	Logarithmic	>3 ppm	11
U	Logarithmic	>36 ppm	4
La	Logarithmic	>16 ppm	17
Th	Logarithmic	>19 ppm	5
As	Logarithmic	>45 ppm	5
Sb	Logarithmic	>8 ppm	2
Sr	Logarithmic	>60 ppm	5
Bi	Logarithmic	>2.5 ppm	15
W	Logarithmic	>3.9 ppm	5
Ti	Logarithmic	>0.2%	3
Ba	Logarithmic	>139 ppm	21
B	Logarithmic	>3.9 ppm	4
P	Logarithmic	>0.13%	7
Al	Arithmetic	>2.95%	4
Mn	Logarithmic	>3270 ppm	5
Fe	Logarithmic	>6.3%	6
K	Logarithmic	>0.44%	7
Na	Logarithmic	>0.04%	12
Ca	Logarithmic	>0.83%	9
Mg	Logarithmic	>1.56%	13
Au	Logarithmic	>10 ppb	6

Carney Lake Claim Group (see Figure 6 - 1A):

One sample, #138 was taken on the main creek draining Carney Lake This sample was anomalous for Mo (9 ppm), Cu (367 ppm), Zn (1388 ppm), Ag (1.6 ppm, Ni (107 ppm), Co (68 ppm), Cd (45.6 ppm), As (98 ppm) and Mn (9249 ppm).

This high values in this sample may be the result of contamination from upstream mining activities.

Belle Bay Claim Group (see Figure 6 - 1B):

Nine samples (#44, 45, 46, 47, 48, 49, 119, 121 & 122) were taken on the claims. Sample # 44 was anomalous for Cr (113 ppm). Sample #45 was anomalous for Cr (131 ppm). Sample #46 was anomalous for Cr (94 ppm). Sample #47 was anomalous for Cr (133 ppm) and V (96 ppm). Sample #48 was anomalous for Cr (105 ppm) and Co (53 ppm). Sample #49 was anomalous for Cr (157 ppm). Sample #122 was anomalous for W (4 ppm) and Bi (4 ppm).

Close Claim Group & Gap 4 Claim (see Figure 6 - 1C):

One sample (#127) was taken from a small creek draining a swampy area on the Close Claim Group. This sample was anomalous for **Au (34 ppb)**.

One sample (#29) was taken from the outlet of a small lake west of the Gap 4 Claim. The catchment area for the east side of this lake includes the Gap 4 Claim. This sample was anomalous for Co (120 ppm), Cd (7.9 ppm) and Mn (8814 ppm).

Hastings Claim Group (see Figure 6 - 1D):

Nine samples (#1, 2, 3, 10, 11, 101, 102, 103 & 104) were taken on the claims. One sample (#125) was taken off the south edge of the claims from a creek draining the southern portion of the claims. Sample site #125 was the only geochemical "site of opportunity" accessible near the south border of the claims.

Sample #1 was anomalous for Mo (42 ppm). Sample #2 was anomalous for Bi (4 ppm). Sample #3 was anomalous for Mo (24 ppm) and Bi (4 ppm). Sample #10 was anomalous for Mo (32 ppm) and Bi (3 ppm). Sample #11 was anomalous for Mo (36 ppm) and Bi (3 ppm). Sample # 101 was anomalous for Mo (45 ppm). Sample #103 was anomalous for Mo (13 ppm). Sample #104 was anomalous for Mo (17 ppm). Sample #125 was anomalous for Mo (15 ppm), Pb (346 ppm) and Cd (5.8 ppm).

Anyox Claim Group (see Figure 6 - 1E):

Fourteen samples (#4, 5, 6, 8, 9, 12, 26, 27, 105, 106, 109, 110, 111 & 124) were taken on the claims.

Sample #5 was anomalous for V (93 ppm) and Bi (4 ppm). Sample #6 was anomalous for Cu (247 ppm), Ag (0.9 ppm), Co (92 ppm) and W (4 ppm). Sample #8 was anomalous for Bi (4 ppm) and Mn (3419 ppm). Sample #9 was anomalous for V (233 ppm) and W (4 ppm). Sample #12 was anomalous for Mo (20 ppm). Sample #26 was anomalous for Bi (3 ppm). Sample #109 was anomalous for V (115 ppm) and U (65 ppm). Sample #110 was anomalous for Mo (24 ppm). Sample #111 was anomalous for Cu (345 ppm), Zn (565 ppm), Co (342 ppm), Cd (9.7 ppm) and Mn (4956 ppm). Sample #124 was anomalous for Bi (3 ppm).

Bonanza Claim Group (see Figure 6 - 1F):

Seven samples (#33, 34, 131, 132, 133, 136 & 137) were taken on the claims. Three samples (#32, 134 & 135) were taken just off the claims on creeks draining the claims.

Sample #32 was anomalous for Cr (88 ppm). Sample #33 was anomalous for Cr (102 ppm) and V (130 ppm). Sample #34 was anomalous for V (120 ppm) and Bi (3 ppm). Sample #131 was anomalous for Cr (98 ppm), V (120 ppm) and Cd (3.8 ppm). Sample #132 was anomalous for Ni (89 ppm), Cr (103 ppm), V (132 ppm), Co (61 ppm), Cd (7.9 ppm) and Mn (3165 ppm). Sample #133 was anomalous for Ni (98 ppm), Cr (103 ppm), V (121 ppm), Co (54 ppm), Cd (10.8 ppm) and Mn (3828 ppm). Sample #134 was anomalous for Cr (115 ppm) and V (141 ppm). Sample #135 was anomalous for V (105 ppm). Sample #136 was anomalous for V (96 ppm). Sample #137 was anomalous for V (103 ppm).

Glacier Claim Group (see Figure 6 - 1G):

Four samples (#7, 13, 107, 108) were taken on the claims. Two samples (#112, 114) were taken just off the west boundary of the claims, on creeks draining the claims.

Sample #7 was anomalous for Cu (162 ppm), Pb (122 ppm), Cr (92 ppm), V (116 ppm) and Bi (4 ppm). Sample #13 was anomalous for Co (49 ppm). Sample #107 was anomalous for V (100 ppm). Sample #107 was anomalous for V (178 ppm). Sample #112 was anomalous for **Au (112 ppb)**.

Donahue Claim Group (see Figure 6 - 1H):

Four samples (#14, 15, 17 & 113) were taken on the claims. Three samples (#18, 19 & 115) were taken just off the claims on creeks draining the claims.

Sample #14 was anomalous for Cd (average of two analyses was 3.6 ppm). Sample #17 was anomalous for V (101 ppm). Sample #18 was anomalous for W (6 ppm). Sample #19 was anomalous for V (122 ppm) and **Au (11 ppb)**. Sample #113 was anomalous for Ag (0.9 ppm), As (63 ppm), Sb 10 ppm) and **Au (136 ppb)**. Sample #115 was anomalous for Pb (194 ppm) and V (129 ppm).

Tournay Claim Group (see Figure 6 - 1I):

Six samples (#30, 31, 116, 117, 129 & 130) were taken on the claims. Four samples (#16, 28, 126 & 128) were taken just off the claims from creeks draining the claims.

Sample #16 was anomalous for Ni (83 ppm), Cr (113 ppm) and V (99 ppm). Sample #28 was anomalous in Ni (105 ppm) and Cr (141 ppm). Sample #30 was anomalous for Cr (133 ppm) and V (140 ppm). Sample #31 was anomalous for Cr (72 ppm) and V (99 ppm). Sample #116 was anomalous for Cu (342 ppm), Zn (314 ppm) and Cd (5.4 ppm). Sample #117 was anomalous for Cu (average of two analyses was 189 ppm) and Cr (average of two analyses was 80.5 ppm). Sample #126 was anomalous for Cr (94 ppm) and V (96 ppm). Sample #128 was anomalous for Cu (319 ppm), Ni (86 ppm), Cr (180 ppm) and

V (161 ppm). Sample #129 was anomalous for Ni (94 ppm), Cr (125 ppm) and V (124 ppm).

Observatory Claim Group (see Figure 6 - 1J):

Four samples (#22, 23, 25 & 123) were taken on the claims. Five samples (#20, 21, 24, 118 & 120) were taken just off the claims on creeks draining the claims.

Sample #21 was anomalous for V (1102 ppm). Sample #22 was anomalous for V (91 ppm). Sample #23 was anomalous for U (38 ppm). Sample #118 was anomalous for V (96 ppm). Sample #120 was anomalous for U (37 ppm).

Cascade Claim Group (see Figure 6 - 1K):

Five samples (#35, 36, 41, 42 & 43) were taken on the claims.

Sample #35 was anomalous for V (122 ppm). Sample #36 was anomalous for V (94 ppm). Sample # 41 was anomalous for Cr (154 ppm). Sample #42 was anomalous for Cr (147 ppm). Sample #43 was anomalous for Cr (150 ppm).

Granby I & Granby II Claims (see Figure 6 - 1K):

Four samples (#37, 38, 39, 40) were taken on the Granby I & Granby II claims.

Sample #37 was anomalous for Cu (715 ppm), V (98 ppm) and As (112 ppm). Sample #38 was anomalous for Cu (338 ppm), Ag (0.8 ppm) and V (96 ppm). Sample #39 was anomalous for Cu (877 ppm), Ag (1.8 ppm), Cd (4.7 ppm) and As (61 ppm) Sample #40 was anomalous for Cu (289 ppm), Ag (1.1 ppm), As (53 ppm) and **Au (66 ppb)**.

8.0 DISCUSSION OF RESULTS & RECOMMENDATIONS

Carney Lake Claim Group

The regional geology map shows the Carney Lake Claim Group as being underlain by Jurassic Bowser Lake Group sediments,. The majority of the rock outcrops observed during field traverses were fine-grained argillites, usually dark grey in colour.

One of the rock samples taken for assay (#78613) returned an assay value of 3.08 oz/t Ag in what was mapped as a quartz vein "with no visible mineralization".

The single moss mat sample taken on this claim group was anomalous for Mo (9 ppm), Cu (367 ppm), Zn (1388 ppm), Ag (1.6 ppm, Ni (107 ppm), Co (68 ppm), Cd (45.6 ppm), As (98 ppm) and Mn (9249 ppm).

This high values in this sample may be the result of contamination from upstream mining activities.

Further prospecting, geological mapping and sampling should be carried out on this claim group, due to its favourable geology and proximity to known deposits.

Belle Bay Claim Group

The regional geology map shows the Belle Bay Claim Group as being underlain by Eocene Hyder Pluton Intrusive rocks to the south. The northern part of the claim group is underlain by Jurassic Bowser Lake sediments in contact with Jurassic Hazelton Group metavolcanics to the east. The rock outcrops observed during field traverses were consistent with this regional geological mapping.

None of the rock samples taken for assay on this claim group returned any anomalous values.

Six moss mat samples taken on the claim group were anomalous for Cr (94 ppm to 157 ppm). One sample was anomalous for Co (53 ppm).

Further prospecting, geologic mapping and sampling is recommended on the claim group. This work should concentrate on the sediment/metavolcanic contact at the north end of the claim group. It is along this same contact that many of the important deposits are found in the Anyox area.

Close Claim Group & Gap 4 Claim

The regional geologic map shows the Close Claim Group and the Gap 4 Claim as being underlain by Devonian to Jurassic Clashmore Complex strained granite. No outcrops were observed during the course of the work covered by this report.

A single sample taken from a small creek draining a swampy area on the Close Claim Group was anomalous for Au (34 ppb). A single sample taken from the outlet of a small lake west of the Gap 4 Claim was anomalous for Co (120 ppm), Cd (7.9 ppm) and Mn (8814 ppm).

Further prospecting, geologic mapping and sampling is recommended on the Close Claim Group and the Gap 4 Claim.

Hastings Claim Group

The regional geologic map shows the Hastings Claim Group as being underlain mainly by Eocene Hyder Pluton intrusive rocks with a tongue of Jurassic Bowser Lake Group sediments at the south end of the claim group. The rock outcrops observed during field traverses were consistent with this regional geological mapping.

None of the rock samples taken for assay on this claim group returned any anomalous values.

Eight moss mat samples taken on the claim block were anomalous for Mo (13 ppm to 45 ppm). One sample was anomalous for Pb (346 ppm) and Cd (5.8 ppm).

The anomalous molybdenum values may be indicative of the presence of a mineralized stock, possibly hypabyssal, within the Eocene Hyder Pluton intrusives. This area should be examined more closely, using prospecting, geologic mapping and sampling.

The moss mat sample with the elevated Pb value was taken from the sediments. Detailed prospecting, geologic mapping and sampling should be carried out in the sedimentary rock unit in the catchment area above this sample location.

Anyox Claim Group

The regional geologic map shows the Hastings Claim Group as being underlain mainly by Eocene Hyder Pluton intrusive rocks with a tongue of Jurassic Bowser Lake Group sediments in contact with Jurassic Hazelton Group metavolcanic rocks at the south end of the claim group. Hazelton Group metavolcanic rocks outcrop on the southeast portion of the claim group. Sampling and mapping as covered by this report was confined to the granites. The rock outcrops observed during field traverses were consistent with this regional geological mapping.

None of the rock samples taken for assay on this claim group returned any anomalous values.

Two moss mat samples taken from drainages overlying the Hazelton Group metavolcanics returned anomalous values for Cu (247 ppm & 345 ppm), Co (92 ppm & 342 ppm). Two moss mat samples from the north section of the claim group returned anomalous values for Mo (20 ppm & 24 ppm).

The area near the south border of the claims, where sediments and metavolcanics are in contact, should be prospected, geologically mapped and sampled.

The catchment areas for the two moss mat samples anomalous in Cu and Co, which are underlain by Hazelton Group metavolcanics, should be prospected, geologically mapped and sampled.

Bonanza Claim Group

The regional geology map shows the Bonanza Claim Group as being underlain by a complex pattern of metasediments, intrusives and metamorphosed intrusives. Limited sampling and mapping as covered by this report is consistent with the regional geological interpretation.

None of the rock samples taken for assay on this claim group returned any anomalous values.

The ten moss mat samples taken on the Bonanza Claim Group were anomalous in one or all of Cr, V, Cd, Ni and Mn. These anomalous values may relate to elevated background levels in the Clashmore Complex metamorphic rocks.

Further, limited reconnaissance prospecting and sampling is recommended on the Bonanza Claim Group, concentrating on the southeast corner of the claim group, on the ground underlain by Hazelton metavolcanic rocks.

Glacier Claim Group

The regional geology map shows the Glacier Claim Group to be underlain mainly by Clashmore Complex metamorphosed rocks, in contact with Hazelton Group metavolcanic rocks on the east side of the claim group. Limited sampling and mapping as covered by this report is consistent with this regional interpretation.

None of the rock samples taken for assay on this claim group returned any anomalous values.

One of the moss mat samples taken from a creek draining the west side of the claim group returned an anomalous Au value of 112 ppb.

The catchment area covered by the anomalous Au value should be prospected, geologically mapped and sampled. Further prospecting and sampling should be carried out in the Hazelton Group metavolcanic unit on the east side of the claim group.

Donahue Claim Group

The regional geology map shows the Donahue Claim Group as being underlain mainly by Clashmore Complex metamorphic rocks. Limited sampling and mapping as covered by this report is consistent with this regional interpretation.

None of the rock samples taken for assay on this claim group returned any anomalous values.

Two of the moss mat samples taken on or just off the claim group returned anomalous Au values of 11 ppb and 136 ppb. The catchment areas for these two anomalous samples should be prospected, geologically mapped and sampled.

Tournay Claim Group

The regional geology map shows the Tournay Claim Group as being underlain mainly by Clashmore Complex metamorphic rocks. Limited sampling and mapping as covered by this report is consistent with this regional interpretation.

None of the rock samples taken for assay on this claim group returned any anomalous values.

Eight moss mat samples were anomalous in one or more of Ni, Cr and V. These anomalous values may relate to elevated background levels in the Clashmore Complex metamorphic rocks. Three moss mat samples were anomalous in Cu (189 ppm to 342 ppm). Catchment areas for these three anomalous Cu samples should be prospected, geologically mapped and sampled.

Observatory Claim Group

The regional geology map shows the Observatory Claim Group as being underlain by Eocene Hyder Pluton intrusive rocks. Sampling and mapping as covered by this report is consistent with this regional interpretation.

None of the rock samples taken for assay on this claim group returned any anomalous values.

Two of the moss mat samples taken on the claim group were anomalous for U (37 ppm and 38 ppm). These U values may represent an elevated background in a pegmatitic phase of the intrusive.

No further work is recommended on these claims.

Cascade Claim Group

The regional geology map shows the Cascade Claim Group as being underlain by Hyder Pluton intrusive rocks to the south. The northwest section of the claim group is underlain by Clashmore Complex metamorphic rocks in contact with Hazelton metavolcanic rocks to the east. Limited sampling and mapping as covered by this report is consistent with this regional interpretation.

None of the rock samples taken for assay on this claim group returned any anomalous values.

None of the moss mat samples showed any important anomalous trends.

Limited further prospecting, geologic mapping and sampling is recommended along the sediment/metavolcanic contact in the northeast corner of the claim group.

Granby I & Granby II Claims

The regional geology map shows the Granby I & Granby II Claims to be underlain by Bowser Lake Group sediments. Limited sampling and mapping as covered by this report is consistent with this regional interpretation.

The single rock sample taken on the Granby I claim showed no anomalous values.

All four of the moss mat samples taken were anomalous for Cu (289 ppm to 715 ppm). One sample was anomalous for Au (66 ppb).

The Granby I & Granby II Claims have favourable underlying geology and close proximity to known ore deposits. Both claims should be prospected, geologically mapped and sampled in as much detail as possible.

9.0 COST STATEMENT

Cost information was supplied by a representative of *Five Star International Resources Inc.*

The total amount which has been spent in total on the 11 claim groups and 3 individual claims from June 5, 1997 to October 21, 1997 is $60,175.02.

This amount breaks down by category as follows:

OFFICE SUPPLIES/MATERIALS:		
Purchase reports (reference material)	$80.15	
Purchase maps (reference material)	$108.45	
Purchase aerial photographs	$1,366.86	
Photocopies (reference material)	$225.15	**$1,780.61**
FIELD SUPPLIES/EQUIPMENT:		
Field equipment	$596.89	
Field supplies	$514.56	
Emergency supplies	$584.85	
Photographs of property	$53.83	**$1,750.13**
TRAVEL EXPENSES:		
Airfares/Buses/Taxis	$3,366.75	**$3,366.75**
HELICOPTER EXPENSES:		
Helicopter Charter	$18,031.86	**$18,031.86**
FOOD & LODGING:		
Food	$914.99	
Lodging	$2,018.82	**$2,933.81**
COMMUNICATION:		
Telephone (long distance)	$176.87	**$176.87**

GEOCHEMISTRY:

Sample shipment	$427.74	
Sample Analysis	$1,840.75	**$2,268.49**

OFFICE & FIELD WORK:

Ebo Bakker 27.5 days @ $450.00/day (preparation & field work)	$12,375.00	
Ebo Bakker 12.5 days @ $450.00/day (aerial photograph interpretation)	$5,625.00	
Doug Symonds 17 days @ $374.50/day (preparation & field work)	$6,366.50	
Ted Reimchen 5 days @ $600.00/day (consulting)	$3,000.00	**$27,366.50**

ASSESSMENT REPORT:

Estimated cost of Assessment Report	$2,500.00	**$2,500.00**
	TOTAL:	**$60,175.02**

The total amount of $60,175.02 has been divided among the 11 claim groups and 3 individual claims based upon the following criteria:

1) An average cost of $507.02 per moss mat sample was calculated as the cost contribution for geochemistry.

2) An average cost per man-day of $4,277.23 was calculated as the cost contribution for geological mapping and aerial photographic study. This man-day cost was broken down further as $3,235.61 per man-day for field geology and $1,041.62 per man-day for aerial photographic study

3) These average costs were applied to the individual claim groups and claims based on the number of moss mat samples taken on each individual claim group or claim and the amount of time spent on geological mapping or aerial photograph interpretation on each individual claim group or claim.

4) A letter is attached (pages 73A & 73B) from Ebo Bakker, P.Geol. who is a representative of Five Star International Resources Inc., the operator of the claims. In this letter, Mr. Bakker affirms that the cost statement was prepared by him and represents only costs directly related to exploration work on the claims in question.

5) An eight page detailed assessment cost breakdown, prepared by Ebo Bakker, P.Geol., is attached (Pages 73C to 73J). The "Expenses Anyox to Sept. 30 '97" details all expenses except personnel and report cost. The "Anyox 1997 Assessment" shows the basis for apportioning costs to the various claims (by man-days of geology or number of samples taken).

The following table summarizes expenditures by claim group or individual claim:

73 A

Ministry of Energy and Mines
Mineral Titles Branch
302 – 865 Hornby Street
Vancouver, B.C. V6Z 2G3
Attention: Mr. Rick Conte

June 8, 1998

Dear Mr. Conte:

I received a copy of your letter, addressed to Alta Sierra Resources Inc. (your file # 13825-03-363), regarding an assessment report for mineral claims ('Anyox claims') between Portland Canal and Observatory Inlet/Hastings Arm, south-west of Stewart.

I participated in the Anyox exploration program and was much surprised to hear that the assessment report was not approved. I was particularly surprised about your negative comment regarding the cost statement.

I kept track of all exploration expenses and prepared the cost statement for the assessment report. I can assure you that all costs that were claimed related directly to exploration work at the Anyox claims. Doug Symonds, who also participated in the exploration work at Anyox and who prepared most of the assessment report, will surely agree, as he was present when most of the expenses were made.

The Anyox area is extremely rugged. Reasonable access to most of the area is only by helicopter, but the exploration work is slow even then, because of the extremely unfavourable terrain conditions. Our Phase 1 exploration work was geared to a program that would cover the large area, were the parties involved had claims, in an efficient way. The program was set up that way, in order to be able to quickly decide on areas of interest (to be retained for future, more detailed, exploration work), and to decide on areas of no interest (areas that should be dropped). To that effect and as preparation for the 1998 fieldwork, I recently made a detailed study of the 1997 sampling results.

I was also surprised to note that copies of your letter were send to persons who are not registered owners of any of these Anyox claims (i.e. Skoda and Sostad), but that no copies of the letter were send to the authors of the disapproved assessment report.

I am presently in Brazil and will be back in Vancouver on the 29th of June. I hope to discuss the assessment work issue at your convenience upon my return.

Sincerely,

Ebo Bakker, P.Geol.
402 – 868 West 16th Avenue
Vancouver, B.C. V5Z 1T1
Tel. 683-7837 Fax 683-7881

Cc: Allen Wilcox
Douglas F. Symonds, P.Geo.
Alta Sierra Resources Inc.
Carsten Mide
Canadian Zeolite Ltd.
Ted H.F. Reimchen, P.Geo., P.Geol.

1997	item	total	ass.ment	type	totals
7-Oct	sample assays, Acme Analytical Labs	1,840.75	1,840.75	assay	1,840.75
3-Sep	courier aerial photographs, McElhanny	22.80	22.80	air	
3-Sep	180 aerial photographs, McElhanny	1,210.68	1,210.68	air	
11-Sep	copies aerial photographs, Kinko's	133.38	133.38	air	1,366.86
27-Sep	telephone and fax, King Edward	171.93	171.93	com	
28-Sep	telephone	4.94	4.94	com	176.87
13-Aug	photocopying, 1681 @ 0.25	420.25	210.13	cop	
16-Sep	photo copies, Drug Store	4.82	4.82	cop	
19-Sep	photocopies, Drug Store	2.99	2.99	cop	
23-Sep	photocopies, envelopes	2.46	2.46	cop	
23-Sep	photocopies, Drug Store	4.75	4.75	cop	225.15
10-Sep	velco strap for bear bells 2, Neville Cro	1.12	1.12	emr	
10-Sep	emergency pack, Neville Crosby	2.85	2.85	emr	
10-Sep	emergency blanket, Neville Crosby	3.48	3.48	emr	
10-Sep	rebar wire, Neville Crosby	5.87	5.87	emr	
10-Sep	pouch for bear spray can, Nev. Crosby	7.44	7.44	emr	
10-Sep	duct tape, Neville Crosby	11.34	11.34	emr	
10-Sep	insect repellent 2, Neville Crosby	12.73	12.73	emr	
10-Sep	yellow poly rope, Neville Crosby	15.90	15.90	emr	
10-Sep	emergency fire starter kits 2, Neville C	21.29	21.29	emr	
10-Sep	crack flare refills 6, Neville Crosby	22.74	22.74	emr	
10-Sep	red flare refills 6, Neville Crosby	22.74	22.74	emr	
10-Sep	foam mattresses 2, Neville Crosby	31.81	31.81	emr	
10-Sep	Bear Shield, Neville Crosby	32.05	32.05	emr	
10-Sep	SabreLight flashlight, Neville Crosby	37.05	37.05	emr	
10-Sep	Bear Spray, Neville Crosby	37.40	37.40	emr	
10-Sep	pan, cups, cutlery, opener, Three Vets	38.25	38.25	emr	
10-Sep	emergency food, Three Vets	59.78	59.78	emr	
10-Sep	crack flare kit, Neville Crosby	63.21	63.21	emr	
10-Sep	duffle bags (emergency) 2, Nev. Crosb	65.84	65.84	emr	
10-Sep	First Aid kit Level 1, Neville Crosby	91.96	91.96	emr	584.85
19-Jun	field lunch, 3 persons, Safeway	6.00	6.00	f	
15-Sep	groceries, Terrace	5.00	5.00	f	
15-Sep	lunch/food (2)	13.92	13.92	f	
15-Sep	Villa Hotel, food	14.04	14.04	f	
15-Sep	dinner Fongs Garden (2)	30.00	30.00	f	
16-Sep	food, Cut-Rate-Foods and Bakery	20.14	20.14	f	
16-Sep	dinner Bitter Creek Cafe (2)	50.00	50.00	f	
18-Sep	dinner Fongs Garden (2)	35.00	35.00	f	
19-Sep	dinner Bitter Creek Cafe (2)	45.00	45.00	f	
20-Sep	food, Grocery	8.00	8.00	f	
21-Sep	food Cafe	1.17	1.17	f	
21-Sep	dinner Fongs Garden (2)	38.00	38.00	f	
22-Sep	dinner Bitter Creek Cafe (2)	50.00	50.00	f	
24-Sep	dinner Fongs Garden (2)	35.00	35.00	f	
25-Sep	dinner Fongs Garden (2)	39.00	39.00	f	
26-Sep	dinner Bitter Creek Cafe (2)	50.00	50.00	f	
27-Sep	lunch King Edward's (3)	21.85	21.85	f	
27-Sep	dinner (2), Terrace Mexican	45.00	45.00	f	
27-Sep	12 breakf.+11 lunch+3 dinner, 2 pers.	392.87	392.87	f	
28-Sep	breakfast, Denny's (2)	15.00	15.00	f	914.99
23-Jun	air photo holder, Neville Crosby	3.75	3.75	fe	

1997	item	total	ass.ment	type	totals
23-Jun	tape measure, Neville Crosby	9.45	9.45	fe	
23-Jun	clipboard, Neville Crosby	12.30	12.30	fe	
23-Jun	stereoscope, Neville Crosby	33.20	33.20	fe	
14-Aug	air photo cover, Neville Crosby	4.50	4.50	fe	
14-Aug	Pretel, digital altimeter, Nev. Crosby	421.66	421.66	fe	
10-Sep	acid bottle, Neville Crosby	0.97	0.97	fe	
10-Sep	axe file, Neville Crosby	5.99	5.99	fe	
10-Sep	hand trowel, Neville Crosby	7.92	7.92	fe	
10-Sep	acid bottle case, Neville Crosby	22.74	22.74	fe	
12-Sep	acid bottle, Neville Crosby	0.97	0.97	fe	
12-Sep	protractor scales 2, Neville Crosby	4.45	4.45	fe	
12-Sep	carbide point scriber, Neville Crosby	11.34	11.34	fe	
12-Sep	air photo holders 5, Neville Crosby	22.52	22.52	fe	
12-Sep	tarps 2 and trowel, Home Depot	23.75	23.75	fe	
16-Sep	pails for sampling, Drug Store	11.38	11.38	fe	596.89
6-Jun	field books, Neville Crosby	21.38	21.38	fs	
23-Jun	aluminum tags, Neville Crosby	8.84	8.84	fs	
23-Jun	felt (tag) marker, Neville Crosby	2.80	2.80	fs	
23-Jun	flagging tape, Neville Crosby	2.85	2.85	fs	
23-Jun	flagging tape, Neville Crosby	4.28	4.28	fs	
14-Aug	Omnichrom pencil, Neville Crosby	1.25	1.25	fs	
14-Aug	batteries AAA, spare, Neville Crosby	19.02	19.02	fs	
14-Aug	graph paper, pencil sharpeners, N.C.	23.42	23.42	fs	
10-Sep	pencil leads, Neville Crosby	2.79	2.79	fs	
10-Sep	insoles 2 pair, Neville Crosby	4.45	4.45	fs	
10-Sep	spare C batteries 3, Neville Crosby	6.12	6.12	fs	
10-Sep	Snow Seal, Neville Crosby	7.92	7.92	fs	
10-Sep	aluminum tags 100, Neville Crosby	10.60	10.60	fs	
10-Sep	sample bag ties 200, Neville Crosby	15.85	15.85	fs	
10-Sep	spare AAA batteries 12, Nev. Crosby	19.02	19.02	fs	
10-Sep	sample bags 200, Neville Crosby	20.41	20.41	fs	
10-Sep	Tyvek tags 200, Neville Crosby	21.66	21.66	fs	
10-Sep	felt markers 12, Neville Crosby	26.68	26.68	fs	
10-Sep	hipchain thread 10 rolls, Neville Crosb	30.72	30.72	fs	
10-Sep	flagging tape 24 rolls, Neville Crosby	41.04	41.04	fs	
10-Sep	spare AA batteries 48, Neville Crosby	43.23	43.23	fs	
10-Sep	Kraft soil sample bags 200, Nev. Cros.	57.00	57.00	fs	
10-Sep	PVC gloves 4 pair, Neville Crosby	59.04	59.04	fs	
12-Sep	omnichrom pencil, Nevill Crosby	1.25	1.25	fs	
12-Sep	pencils 2, Neville Crosby	2.03	2.03	fs	
12-Sep	eraser, Neville Crosby	2.45	2.45	fs	
12-Sep	markerpen, Neville Crosby	3.36	3.36	fs	
12-Sep	pencils 2, Neville Crosby	4.31	4.31	fs	
12-Sep	spare C batteries, Neville Crosby	6.12	6.12	fs	
12-Sep	colorfilm, London Drugs	22.78	22.78	fs	
14-Sep	office supplies, Staples	21.89	21.89	fs	514.56
7-Jun	helicopter, Northern	2,398.62	2,398.62	heli	
19-Jun	helicopter, Northern	2,081.41	2,081.41	heli	
17-Sep	VIH 2.9 hours at $ 861.71	2,498.97	2,498.97	heli	
18-Sep	VIH 2.7 hours at $ 861.71	2,326.63	2,326.63	heli	
21-Sep	VIH 2.2 hours at $ 900.30	2,004.86	2,004.86	heli	
22-Sep	VIH 2.8 hours at $ 861.71	2,412.80	2,412.80	heli	

1997	item	total	ass.ment	type	totals
24-Sep	VIH 1.9 hours at $ 861.71	1,637.26	1,637.26	heli	
25-Sep	VIH 1.3 hours at $ 861.71	1,120.23	1,120.23	heli	
26-Sep	VIH 1.8 hours at $ 861.71	1,551.08	1,551.08	heli	18,031.86
5-Jun	geological map OF 3454, G.S.C.	17.10	17.10	lit	
7-Jul	BC Open File 1997-1,	11.40	11.40	lit	
9-Jul	Map copies (Can. Zeol.), Sup. Repro	23.32	23.32	lit	
28-Aug	Open File Anyox, GSC	28.33	28.33	lit	80.15
27-Sep	12 nights, 2 persons, King Edward	1,876.80	1,876.80	lodg	
28-Sep	Sandman Hotel, Terrace (2)	142.02	142.02	lodg	2,018.82
24-Jul	TRIM maps Anyox area, shipping	6.42	6.42	map	
24-Jul	TRIM maps, Nanaimo maps	56.44	56.44	map	
28-Aug	3 topo maps Anyox area, GSC	32.89	32.89	map	
3-Sep	TRIM map, Nanaimo maps	6.28	6.28	map	
3-Sep	TRIM maps Anyox area, shipping	6.42	6.42	map	108.45
11-Jun	photographs, prints, London Drugs	2.40	2.40	ph	
11-Jun	photographs, developm., London Drug	8.26	8.26	ph	
11-Jun	Konica film, 6, London Drugs	12.91	12.91	ph	
29-Sep	photographs, London drugs	30.26	30.26	ph	53.83
2-Sep	equipment and rock samples, Greyh.	98.70	98.70	ship	
15-Sep	extra luggage, 2 pieces	74.90	74.90	ship	
18-Sep	packing supplies, Home Faire	17.74	17.74	ship	
20-Sep	sample shipment, Greyhound	90.50	90.50	ship	
27-Sep	Kalum taxi to Greyhound	7.00	7.00	ship	
27-Sep	sample shipment to Acme, Greyhound	138.90	138.90	ship	427.74
6-Jun	airfare Vanc. - Terrace, T. Reimchen	630.39	630.39	trav	
6-Jun	airfare Vancouver - Terrace, E. Bakker	630.39	630.39	trav	
7-Jun	home - airport v.v., 30 km @	10.50	10.50	trav	
7-Jun	parking, airport	12.00	12.00	trav	
18-Jun	airfare Vancouver - Terrace, E. Bakker	863.49	863.49	trav	
19-Jun	travel to airport v.v., 24 km @ 0.35	8.40	8.40	trav	
19-Jun	parking, airport	12.00	12.00	trav	
29-Jul	travel to N. Van v.v., 22 km @ 0.35	7.70	7.70	trav	
10-Sep	airfare Vancouver - Terrace, E. Bakker	439.19	439.19	trav	
10-Sep	airfare Vanc. - Terrace, D. Symonds	439.19	439.19	trav	
15-Sep	bus Terrace, airport - Greyhound (2)	8.00	8.00	trav	
15-Sep	airport improvement fee (2)	10.00	10.00	trav	
15-Sep	bus Terrace - Stewart (2)	53.50	53.50	trav	
27-Sep	Stewart - Terrace, private car (2)	200.00	200.00	trav	
28-Sep	taxi Hotel - airport Terrace	17.00	17.00	trav	
28-Sep	taxi airport Vancouver - home	25.00	25.00	trav	3,366.75
13-Aug	management 15%	3,807.12	-	Ac	
13-Aug	rent 2 months @ 1727.51	3,455.02	-	Ac	
30-Sep	rent August and September @ 1727.5	3,455.02	-	Ac	
30-Sep	use of office furniture, 2 mnths @ 200	400.00	-	Ac	
30-Sep	service by Fraser	336.30	-	Ac	
30-Sep	"For July 1997"	26.16	-	Ac	
30-Sep	management 15%	971.83	-	Ac	
23-Aug	telephone	10.21	-	com	
30-Sep	long distance calls	2.90	-	com	
27-Sep	photocopies geology report	25.68	-	cop	
30-Sep	copies maps progress report, Speedy	11.40	-	cop	
30-Sep	photocopying 147 @ 0.25	36.75	-	cop	

1997	item	total	ass.ment	type	totals
4-Jun	drafting tape, Wilson	0.64	-	dr	
13-Jun	set color markers	13.26	-	dr	
18-Aug	imaging film, Behnsen	6.67	-	dr	
18-Aug	drafting pens, Behnsen	3.42	-	dr	
15-Sep	publications, G.S.C.	78.11	-	lit	
30-Sep	copies D.J. maps, Sup.Repro		-	lit	
6-Jun	airfare Vancouver - Terrace, Ed Skoda	630.39	-	stak	
12-Jun	filing 12 claims, 202 units	2,020.00	-	stak	
18-Jun	claim tags, 11	23.54	-	stak	
18-Jun	airfare Vancouver - Terrace, Ed Skoda	863.49	-	stak	
26-Jun	filing 11 claims, 209 units	2,090.00	-	stak	
17-Sep	mineral claim tags	50.32	-	stak	
23-Sep	nails, Home Faire	0.45	-	stak	
23-Sep	claim tags, 2-post claims, 2	4.28	-	stak	
23-Sep	Free Miner Certificate	25.00	-	stak	
25-Sep	nails, Home Faire	2.39	-	stak	
25-Sep	wood and nails	19.72	-	stak	
25-Sep	sawing wood (no receipt)	10.00	-	stak	
30-Sep	filing 8 claims, 107 units	1,070.00	-	stak	
15-Sep	parking	2.00	-	trav	
	Total	48,129.96	30,308.52		30,308.52

claim name		sheet	units	date compl.	tenure	reg.own.	date exp.	calc. reference	applied	exp. date	reg. fee	in 1998
CARNEY LAKE GROUP						**available $**	**4,277**					
VICTORY	1	d	1	22-Oct-96	352,222	CZL	22-Oct-97	-	300	22-Oct-00	30	-
VICTORY	2	d	1	22-Oct-96	352,223	CZL	22-Oct-97	-	300	22-Oct-00	30	-
VICTORY	3	d	1	22-Oct-96	352,224	CZL	22-Oct-97	-	300	22-Oct-00	30	-
VICTORY	4	d	1	22-Oct-96	352,225	CZL	22-Oct-97	-	300	22-Oct-00	30	-
VICTORY	5	d	1	22-Oct-96	352,226	CZL	22-Oct-97	-	200	22-Oct-99	20	-
VICTORY	6	d	1	22-Oct-96	352,227	CZL	22-Oct-97	-	200	22-Oct-99	20	-
BUCK	I	d	1	4-Dec-92	315,094	CZL	4-Dec-97	-	200	4-Dec-98	10	200
BUCK	II	d	1	4-Dec-92	315,095	CZL	4-Dec-97	-	200	4-Dec-98	10	200
BUCK	III	d	1	4-Dec-92	315,096	CZL	4-Dec-97	-	200	4-Dec-98	10	200
BUCK	IV	d	1	4-Dec-92	315,097	CZL	4-Dec-97	-	200	4-Dec-98	10	200
TOM		d	6	25-Apr-97	355,319	EFS	25-Apr-98	-	600	25-Apr-99	60	600
CARNEY		d	9	19-Jun-97	356,816	ASS	19-Jun-98	1 man-day	900	19-Jun-99	90	-
AND	1	d	1	6-Jul-96	348,715	ASS	6-Jul-98	-	100	6-Jul-99	10	-
AND	2	d	1	6-Jul-96	348,716	ASS	6-Jul-98	-	100	6-Jul-99	10	-
AND #	3	d	1	6-Jul-96	348,717	ASS	6-Jul-98	-	100	6-Jul-99	10	-
Total			*28*					*1 man-day*	*4,200*	*PAC 77*	*380*	
BELLE BAY GROUP						**available $**	**5,801**				10	
TRIUMP	2	d	20	22-Oct-96	352,220	CZL	22-Oct-97	-	2,000	22-Oct-98	200	2,000
TRIUMP	3	d	20	22-Oct-96	352,221	CZL	22-Oct-97	121 122	2,000	22-Oct-98	200	2,000
DEL	6	d	12	25-Apr-97	355,325	ASS	25-Apr-98	119	1,200	25-Apr-99	120	1,200
SARAH	2	d	20	19-Jun-97	356,818	ASS	19-Jun-98	1 man-day	-		-	2,000
AND #	9	d	1	6-Jul-96	348,723	ASS	6-Jul-98	-	-		-	100
AND #	10	d	1	6-Jul-96	348,724	ASS	6-Jul-98	-	-		-	100
AND #	11	d	1	6-Jul-96	348,725	ASS	6-Jul-98	-	-		-	100
AND #	12	d	1	6-Jul-96	348,726	ASS	6-Jul-98	-	-		-	100
FORTUNE #	1	d	20	25-Sep-97	359,388	CM	25-Sep-98	-	-		-	2,000
Total			*96*					*3 + 1 man-day*	*5,200*	*PAC 601*	*530*	
CLOSE GROUP						**available $**	**508**				10	
CLOSE	1	c	1	30-Oct-96	352,595	LRS	30-Oct-97	127	100	30-Oct-98	10	100
CLOSE	2	c	1	30-Oct-96	352,596	LRS	30-Oct-97	-	100	30-Oct-98	10	100
CLOSE	3	c	1	30-Oct-96	352,597	LRS	30-Oct-97	-	100	30-Oct-98	10	100
CLOSE	4	c	1	30-Oct-96	352,598	LRS	30-Oct-97	-	100	30-Oct-98	10	100
Total			*4*					*1*	*400*	*PAC 108*	*50*	
HASTINGS GROUP						**available $**	**5,079**				10	
DINERO	2	b	20	30-Oct-96	352,576	LRS	30-Oct-97	1 101	0	let go	-	-
DINERO	4	b	20	30-Oct-96	352,578	LRS	30-Oct-97	2 3 10 11 102-104	2,000	30-Oct-98	200	2,000
ORO	10	b	12	30-Oct-96	352,588	LRS	30-Oct-97	-	1,200	30-Oct-98	120	1,200
ORO	12	b	16	30-Oct-96	352,590	LRS	30-Oct-97	125	1,600	30-Oct-98	160	1,600
Total			*68*					*10*	*4,800*	*PAC 279*	*490*	
ANYOX GROUP						**available $**	**7,111**				10	
DINERO	1	b	20	30-Oct-96	352,575	LRS	30-Oct-97	9 109 110	0	let go	-	-
DINERO	3	b	20	30-Oct-96	352,577	LRS	30-Oct-97	8 12	2,000	30-Oct-98	200	2,000
ORO	8	b	16	30-Oct-96	352,586	LRS	30-Oct-97	6 111	1,600	30-Oct-98	160	1,600
ORO	9	b	15	30-Oct-96	352,587	LRS	30-Oct-97	5 105 106	1,500	30-Oct-98	150	1,500
ORO	11	b	20	30-Oct-96	352,589	LRS	30-Oct-97	4 26 27 124	2,000	30-Oct-98	200	2,000
Total			*91*					*14*	*7,100*	*PAC 11*	*720*	
BONANZA GROUP						**available $**	**5,079**				10	
GAP	3	d	5	30-Oct-96	352,593	LRS	30-Oct-97	-	500	30-Oct-98	50	500
STEER	1	d	6	25-Apr-97	355,326	ASS	25-Apr-98	32 131	600	25-Apr-99	60	600

claim name		sheet	units	date compl.	tenure	reg.own.	date exp.	calc. reference	applied	exp. date	reg. fee	in 1998
STEER	2	d	6	25-Apr-97	355,327	ASS	25-Apr-98	132 133 134	600	25-Apr-99	60	600
STEER	3	d	12	25-Apr-97	355,328	ASS	25-Apr-98	33 34 135	1,200	25-Apr-99	120	1,200
STEER	4	d	18	25-Apr-97	355,329	ASS	25-Apr-98	136 137	1,800	25-Apr-99	180	1,800
Total			*47*					*10*	*4,700*	*PAC 379*	*480*	
GLACIER GROUP						**available $**	**6,042**				10	
GAP	1	d	6	30-Oct-96	352,591	LRS	30-Oct-97	-	600	30-Oct-98	60	600
GAP	2	d	5	30-Oct-96	352,592	LRS	30-Oct-97	-	500	30-Oct-98	50	500
ORO	5	b	15	30-Oct-96	352,583	LRS	30-Oct-97	107	1,500	30-Oct-98	150	1,500
ORO	6	b	12	30-Oct-96	352,584	LRS	30-Oct-97	108	1,200	30-Oct-98	120	1,200
ORO	7	b	20	30-Oct-96	352,585	LRS	30-Oct-97	7 13 114 112	2,000	30-Oct-98	200	2,000
DAN	1	d	20	19-Jun-97	356,819	ASS	19-Jun-98	25%	-		-	2,000
RICHARD	1	d	20	19-Jun-97	356,823	ASS	19-Jun-98	25%	-		-	2,000
Total			*98*					*6 + 50%*	*5,800*	*PAC 242*	*590*	
DONAHUE GROUP						**available $**	**5,352**				10	
ORO	1	a	20	30-Oct-96	352,579	LRS	30-Oct-97	-	2,000	30-Oct-98	200	2,000
ORO	2	ab	18	30-Oct-96	352,580	LRS	30-Oct-97	17	1,800	30-Oct-98	180	1,800
ORO	3	ac	15	30-Oct-96	352,581	LRS	30-Oct-97	18 19	1,500	30-Oct-98	150	1,500
ROSE	1	d	20	19-Jun-97	356,825	ASS	19-Jun-98	113 30%	-		-	2,000
FAME #	1	d	5	25-Sep-97	359,391	CM	25-Sep-98	115	-		-	500
FAME #	2	d	20	25-Sep-97	359,392	CM	25-Sep-98	14 15	-		-	2,000
Total			*98*					*7 + 30%*	*5,300*	*PAC 52*	*540*	
TOURNAY GROUP						**available $**	**6,277**				10	
ORO	4	ab	18	30-Oct-96	352,582	LRS	30-Oct-97	16 116 117	1,800	30-Oct-98	180	1,800
ALTA	1	dc	20	7-Jun-97	356,827	ASS	7-Jun-98	126	2,000	7-Jun-99	200	-
ALTA	3	dc	20	7-Jun-97	356,828	ASS	7-Jun-98	128	2,000	7-Jun-99	200	-
ROSE	2	d	20	19-Jun-97	356,826	ASS	19-Jun-98	30 31 129 130 20%	-		-	2,000
DISCOVERY #	2	d	20	25-Sep-97	359,390	CM	25-Sep-98	28	-		-	2,000
Total			*98*					*10 +20%*	*5,800*	*PAC 477*	*590*	
OBSERVATORY GROUP						**available $**	**4,571**				10	
DEL	1	d	20	25-Apr-97	355,320	ASS	25-Apr-98	-	0	let go	-	-
DEL	2	d	20	25-Apr-97	355,321	ASS	25-Apr-98	25	0	let go	-	-
DEL	3	d	20	25-Apr-97	355,322	ASS	25-Apr-98	20 21 22 118	2,000	25-Apr-99	200	2,000
DEL	4	d	20	25-Apr-97	355,323	ASS	25-Apr-98	23 24 120 123	2,000	25-Apr-99	200	2,000
Total			*81*					*9*	*4,000*	*PAC 571*	*410*	
CASCADE GROUP						**available $**	**5,293**				10	
STEER	5	d	20	25-Apr-97	355,330	ASS	25-Apr-98	35 36	2,000	25-Apr-99	200	2,000
STEER	6	d	20	25-Apr-97	355,331	ASS	25-Apr-98	-	2,000	25-Apr-99	200	2,000
DEL	5	d	12	25-Apr-97	355,324	ASS	25-Apr-98	-	1,200	25-Apr-99	120	1,200
DEL	7	d	12	7-Jun-97	356,829	ASS	7-Jun-98	-	-		-	1,200
DEL	8	d	12	7-Jun-97	356,830	ASS	7-Jun-98	-	-		-	1,200
SARAH	1	d	20	19-Jun-97	356,817	ASS	19-Jun-98	1 man-day	-		-	2,000
Total			*96*					*2 + 1 man-day*	*5,200*	*PAC 93*	*530*	
Assessment for individual claims						**available $**	**4,785**				-	
GAP	4	dc	5	30-Oct-96	352,594	LRS	30-Oct-97	29 ($ 508	500	30-Oct-98	50	500
GRANBY	I	d	6	25-Apr-97	355,317	EFS	25-Apr-98	0.5 man-day ($2139)	1,200	25-Apr-00	120	-
GRANBY	II	d	8	25-Apr-97	355,318	EFS	25-Apr-98	0.5 man-day ($2139)	1,600	25-Apr-00	160	-
Total			*19*					*1 + 1 man-day*	*3,300*	*PAC 1486*	*330*	
Grand total						**available $**	**60,175**		**55,800**	**PAC 4,375**	**5,640**	
No assessment work filed for												
MALLARD		d	1	3-Apr-87	251,701	CZL	4-Mar-98					200

claim name		sheet	units	date compl.	tenure	reg.own.	date exp.	calc. reference	applied	exp. date	reg. fee	in 1998
SIERRA	1	dc	16	7-Jun-97	356,831	ASS	7-Jun-98					1,600
SIERRA	2	d	20	7-Jun-97	356,832	ASS	7-Jun-98					2,000
SIERRA	3	dc	12	7-Jun-97	356,833	ASS	7-Jun-98					1,200
SIERRA	4	d	20	7-Jun-97	356,834	ASS	7-Jun-98					2,000
SIERRA	5	d	20	7-Jun-97	356,835	ASS	7-Jun-98					2,000
SIERRA	6	d	20	7-Jun-97	356,836	ASS	7-Jun-98					2,000
SIERRA	7	d	10	7-Jun-97	356,837	ASS	7-Jun-98					1,000
SIERRA	8	d	20	7-Jun-97	356,838	ASS	7-Jun-98					2,000
DAN	2	d	20	19-Jun-97	356,820	ASS	19-Jun-98					2,000
DAN	3	d	20	19-Jun-97	356,821	ASS	19-Jun-98					2,000
DAN	4	d	20	19-Jun-97	356,822	ASS	19-Jun-98					2,000
RICHARD	2	d	20	19-Jun-97	356,824	ASS	19-Jun-98					2,000
AND #	4	d	1	6-Jul-96	348,718	ASS	6-Jul-98					100
AND #	5	d	1	6-Jul-96	348,719	ASS	6-Jul-98	-	-			100
AND #	6	d	1	6-Jul-96	348,720	ASS	6-Jul-98	-	-			100
AND #	7	d	1	6-Jul-96	348,721	ASS	6-Jul-98	-	-			100
AND #	8	d	1	6-Jul-96	348,722	ASS	6-Jul-98	-	-			100
AND #	14	e	1	6-Jul-96	348,728	ASS	6-Jul-98					100
MESS	1	c	1	8-Jul-96	348,729	ASS	8-Jul-98					100
MESS	2	c	1	8-Jul-96	348,730	ASS	8-Jul-98					100
MESS	3	c	1	8-Jul-96	348,731	ASS	8-Jul-98					100
MESS	4	c	1	8-Jul-96	348,732	ASS	8-Jul-98					100
MESS	5	c	1	8-Jul-96	348,733	ASS	8-Jul-98					100
DISCOVERY #	2	d	20	25-Sep-97	359,390	CM	25-Sep-98					2,000
FAME #	3	d	20	26-Sep-97	369,393	CM	26-Sep-98					2,000
NEWGOLD #	1	d	1	26-Sep-97	359,394	CM	26-Sep-98					100
NEWGOLD #	2	d	1	26-Sep-97	359,395	CM	26-Sep-98					100

1998 assessment	94,800
1997 PAC -	4,375
1998 registration +	9,430
$ required in 1998	99,855

Abbreviations:

ASS	139824	Alta Sierra Syndicate
CZL	136254	Canadian Zeolite Ltd.
CM	140451	Carsten Mide
LRS	125300	Larry R.W. Sostad
EFS	124862	Edward F. Skoda

map sheets:

a = 103 O 09 E	b = 103 P 12 W	
c = 103 O 08 E	d = 103 P 05 W	e = 103 P 05 E

Calculations:

			moss mat samples		rock samples		Total available	$60,175.02
	Sept.	days	Doug	Ebo	Doug	Ebo	helicopter hours and $ Sept.	
moss mat	17-22	4.0	36	37		12	2.9 + 2.7 + 2.2 + 2.8 = 10.6	$9,243.26
mapping	24-26	2.7*	13	1	7	10	1.9 + 1.3 + 1.8 = 5.0	$4,308.57
	Total	6.7	73 + 14		29			$13,551.83

* 1.3 h on day mapping cancelled (bad weather); normal day would have been 1.85 h =(1.9+1.8)/2, so 1.3 h is 0.7 (=1.3/1.85) day

expenses except Sept. helicopter ($ 60,175.02-13,551.83=) $ 46,623.19 or per day ($46,623.19/6.7=) $ 6,958.69

first 4 days (moss sampling)		
general	4 * 6958.69 =	27,834.74
helicopter		9,243.26
	total	37,078.00

final 2.7 days (mapping - sampling)		
general	2.7 * 6958.69 =	18,788.45
helicopter		4,308.57
	total	23,097.02

73 moss mat samples on first 4 days
average cost per sample is ($ 37,078 / 73 =) $ 507.92

average cost per day is ($ 23,097.02 / 2.7 =) $ 8,554.45
1 man-day is $ 4,277.23
cost for 0.7 day is $ 5,988.12

claim name	sheet	units	date compl.	tenure	reg.own.	date exp.	calc. reference	applied	exp. date	reg. fee	in 1998

A day work around the glaciers (recently exposed rock) had been planned, but was not done because of weather conditions; the 0.7 day allotted to this and split up as follows:

	ROSE 1	ROSE 2	RICHARD 1	DAN 1
	30 %	20 %	25 %	25 %
$	1,796.43	1,796.43	2,994.06	

Claim Group Or Individual Claim	*# Moss Mat Samples*	*Cost Apportion (Geochem)*	*# Man-Days on Geology*	*Cost Apportion (Geology)*	*Total Cost*	*Applied To Claim*	*To PAC Account*
Carney Lake Group	0	$0	1	$4,277	$4,277	$4,200	$77
Belle Bay Group	3	$1,524	1	$4,277	$5,801	$5,200	$601
Close Group	1	$508	0	$0	$508	$400	$108
Hastings Group	10	$5,079	0	$0	$5,079	$4,800	$279
Anyox Group	14	$7,111	0	$0	$7,111	$7,100	$11
Bonanza Group	10	$5,079	0	$0	$5,079	$4,700	$379
Glacier Group	6	$3,047	0.7	$2,995	$6,042	$5,800	$242
Donahue Group	7	$3,556	0.42	$1,796	$5,352	$5,300	$52
Tournay Group	10	$5,079	0.28	$1,198	$6,277	$5,800	$477
Observatory Group	9	$4,571	0	$0	$4,571	$4,000	$571
Cascade Group	2	$1,016	1	$4,277	$5,293	$5,200	$93
Gap 4 Claim	1	$508	0	$0	$508	$500	$8
Granby I Claim	0	$0	0.5	$2,139	$2,139	$1,200	$939
Granby II Claim	0	$0	0.5	$2,139	$2,139	$1,600	$539
TOTALS:	**73**	**$37,078.00**	**5.4**	**$23,098.00**		**$55,800.00**	**$4376.00**

10.0 STATEMENT OF QUALIFICATIONS

I, Douglas Frederick Symonds, of #501 - 9847 Manchester Drive, Burnaby, B.C. do hereby state that:

1) I am an independent Geological Consultant, with offices at #501 - 9847 Manchester Drive, Burnaby, B.C., V3N 4P4.

2) In 1972 I graduated from the University of British Columbia with a Bachelor of Science Degree in Geology.

3) I am a Member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Registration #19200).

4) I have practiced my profession as a Geologist and as a Geological Consultant in North and South America since graduating in 1972.

5) I have gained a working knowledge of the *Anyox Area*, based on field and office work that I have carried out with respect to this area over the last year.

6) I have based this report on office and field work that I carried out personally or supervised directly during the period of June 5, 1997 to October 21, 1997.

7) I have no interest, either direct or indirect, in the property or securities of Mr. Carsten Mide, or of *Five Star International Resources Inc.*, or of *Canadian Zeolite Ltd.*, or of *Alta Sierra Resources Inc.*, nor do I expect to receive any such interest, either direct or indirect in the property or securities of any of these companies or individuals.

Dated this 12th day of January, 1998 at Burnaby, B.C.

Doug Symonds, P.Geo.
Geological Consultant

Revised June 21, 1998

APPENDIX I

References

REFERENCES

1) Stanley, C.R.; *"PROBPLOT - An Interactive Computer Program to Fit Mixtures of Normal (or Log Normal) Distributions with Maximum Likelihood Optimization Procedures"*; Association of Exploration Geochemists, Special Volume #14; 1989.

2) Evenchick, C.A., M^{c}Nicoll, V.J., Holm, K., Alldrick, D.J. & Snyder, L.D.; *"Geology, Anyox Pendant & Surrounding Areas in Observatory Inlet"*; Geological Survey of Canada, Open File Map #3454, Scale 1:50,000; May 7, 1997.

3) B.C. Ministry of Employment & Investment; *"103O/P - Nass River"*; B.C. Regional Geochemical Survey File RGS 43; 1995.

4) Davis, J.W. & Aussant, C.H.; *"Geological, Geochemical and Geophysical Report on the Anyox Property"*; Assessment Report on Behalf of *TVI Copper Inc.*; August 16, 1994.

APPENDIX II

Acme Laboratory Analytical Certificates

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Pegasus Earth Sensing Corp. PROJECT ANYOX-97 File # 97-5661 Page 1

1645 - 1185 W. Georgia St, Vancouver BC V6E 4E6 Submitted by: Ebo Bakker

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	wt.(-80) gm
1 SILT	42	14	29	76	<.3	7	7	471	4.07	18	<8	<2	9	34	.8	<3	<3	48	.34	.046	16	8	.40	48	.07	<3	1.20	.03	.07	<2	<1	58
2	6	16	14	45	<.3	5	8	829	3.23	3	10	<2	28	18	1.5	<3	4	64	.25	.054	24	13	.23	33	.08	<3	.67	.01	.06	<2	<1	56
3	24	62	50	73	.3	8	17	2688	4.16	17	12	<2	8	41	2.9	9	4	75	.34	.098	21	16	.35	64	.07	4	2.32	.02	.07	2	1	23
4	3	74	70	39	<.3	4	4	336	1.75	18	27	<2	4	19	1.3	<3	<3	34	.29	.080	15	11	.12	26	.09	3	1.15	.02	.06	<2	1	27
5	7	28	25	53	<.3	6	10	906	4.23	7	22	<2	16	23	1.6	<3	3	93	.34	.079	27	23	.26	36	.08	<3	.91	.02	.09	<2	4	77
6	4	247	31	185	.9	46	92	1062	3.54	7	<8	<2	3	33	2.4	7	<3	85	1.35	.072	11	54	.96	35	.19	<3	3.92	.05	.07	4	<1	33
7	7	162	122	270	.7	34	42	1226	4.25	25	<8	<2	5	13	2.1	<3	4	116	.38	.082	13	92	2.00	128	.24	<3	4.75	.02	.75	<2	4	67
8	7	41	70	93	.3	8	20	3419	2.54	10	23	<2	7	37	2.5	<3	4	38	.37	.081	18	12	.25	71	.05	<3	1.59	.02	.16	<2	<1	29
9	4	19	17	67	<.3	6	11	551	7.96	<2	10	<2	19	47	1.1	<3	<3	233	.63	.144	18	19	.26	47	.09	<3	.81	.02	.06	4	<1	91
10	32	50	53	51	<.3	6	7	591	3.10	21	21	<2	2	29	2.1	5	3	51	.23	.086	12	13	.24	54	.06	3	.99	.03	.15	2	1	25
11	36	34	72	48	<.3	6	16	2445	3.96	34	<8	<2	4	23	1.3	3	3	78	.21	.060	13	13	.32	49	.07	<3	1.03	.02	.09	<2	<1	27
12	20	19	30	43	<.3	4	6	939	1.75	8	13	<2	7	17	.6	<3	<3	30	.15	.046	16	7	.15	32	.04	<3	.97	.01	.06	<2	<1	65
13	6	40	23	100	<.3	16	49	1117	2.85	<2	9	<2	6	30	1.3	4	<3	45	.63	.076	18	27	.94	146	.13	3	2.57	.05	.56	2	2	18
14	5	36	16	145	.3	21	21	1473	4.14	<2	8	<2	4	40	3.3	<3	<3	83	.59	.074	10	38	.82	165	.12	<3	1.81	.02	.19	<2	1	40
RE 14	5	40	15	158	.3	23	23	1645	4.52	2	9	<2	3	44	3.9	4	<3	90	.65	.079	12	42	.89	183	.12	3	2.01	.02	.20	2	<1	<1
15	3	16	11	72	<.3	19	11	499	2.38	2	<8	<2	3	43	.8	<3	<3	57	.48	.062	10	32	.77	97	.17	<3	1.36	.05	.10	<2	1	26
16	3	92	8	207	.4	83	30	630	3.74	<2	<8	<2	2	53	3.4	3	<3	99	1.55	.063	8	113	1.63	44	.19	<3	3.13	.09	.05	<2	<1	105
17	3	65	14	153	<.3	46	19	466	3.35	4	<8	<2	13	53	2.0	3	<3	101	1.07	.096	13	59	1.05	61	.15	<3	2.08	.08	.08	2	1	101
18	3	11	8	24	<.3	5	5	415	.95	<2	10	<2	2	20	.5	<3	<3	31	.25	.047	6	10	.24	35	.05	<3	.59	.01	.05	6	<1	36
19	11	69	10	102	.5	30	16	870	3.53	<2	<8	<2	3	33	1.5	6	<3	122	1.34	.100	9	38	1.15	135	.19	<3	1.73	.02	.18	13	11	89
101	45	35	71	94	<.3	6	22	2981	5.85	9	26	<2	6	57	2.3	<3	<3	44	.72	.062	19	7	.22	82	.04	<3	1.62	.03	.27	<2	2	15
102	8	23	22	67	<.3	8	9	1034	2.92	5	8	<2	17	36	1.0	3	<3	74	.42	.076	16	17	.47	67	.11	<3	1.50	.02	.11	<2	1	52
103	13	27	24	55	<.3	10	11	766	2.84	7	19	<2	7	50	.7	4	<3	61	.69	.112	16	12	.59	42	.13	3	1.26	.02	.50	<2	1	21
104	17	34	38	52	<.3	6	10	1027	3.61	11	24	<2	18	49	.9	6	<3	67	.53	.068	18	11	.33	45	.09	<3	1.48	.01	.16	2	1	18
105	4	29	28	40	<.3	4	6	470	2.75	12	<8	<2	15	61	.5	4	<3	62	.52	.056	21	14	.24	29	.08	<3	1.57	.01	.07	2	1	28
106	5	13	12	34	.4	4	4	236	2.79	4	15	<2	31	16	.3	<3	<3	59	.25	.053	21	12	.23	27	.08	<3	.68	.01	.07	3	1	65
107	3	133	14	77	.4	29	19	393	4.02	<2	13	<2	6	37	.6	<3	<3	100	.99	.064	9	47	1.23	48	.17	<3	2.60	.04	.15	<2	2	72
108	4	20	21	73	.3	7	9	435	7.63	<2	20	<2	35	26	.5	4	<3	178	.38	.106	22	23	.23	38	.08	<3	.68	.01	.05	<2	<1	40
109	5	14	17	67	<.3	9	7	399	4.81	<2	65	<2	25	45	.4	<3	<3	115	.46	.072	16	14	.31	38	.12	<3	.87	.03	.06	<2	1	68
110	24	19	24	79	<.3	6	6	436	2.25	2	30	<2	13	56	.6	<3	<3	45	.37	.078	23	8	.28	66	.06	<3	1.22	.02	.14	<2	<1	34
111	6	345	74	565	.7	69	342	4956	5.04	29	<8	<2	3	13	9.7	<3	<3	74	.71	.069	8	47	.75	64	.10	<3	2.54	.02	.12	2	2	18
112	3	45	12	103	.4	27	26	627	4.03	3	<8	<2	6	30	.9	8	<3	83	.71	.136	12	51	1.32	132	.20	<3	1.79	.04	.30	3	112	60
113	6	89	29	144	.9	63	27	695	6.88	63	<8	<2	4	19	1.6	10	<3	88	.49	.105	12	67	1.48	54	.19	<3	1.77	.03	.17	2	136	94
114	7	27	6	53	<.3	16	14	584	3.18	2	13	<2	4	14	.4	<3	<3	58	.41	.065	7	30	.66	87	.14	<3	1.43	.02	.19	<2	2	62
115	4	41	194	98	<.3	37	19	599	4.85	<2	<8	<2	7	33	1.0	7	<3	129	.68	.080	11	60	1.15	99	.16	<3	1.67	.04	.22	<2	1	77
STANDARD C3/AU-S	27	69	38	156	5.6	38	14	774	3.38	54	22	3	21	30	23.0	23	20	88	.58	.088	22	164	.61	149	.10	21	1.90	.04	.17	22	43	-

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.
- SAMPLE TYPE: MOSS MAT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 24 1997 DATE REPORT MAILED: Oct 8/97 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data f FA ___

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	wt.(-80) gm
116	4	342	3	314	.3	64	44	546	2.29	2	<8	<2	<2	29	5.4	<3	<3	49	.99	.090	8	65	.92	32	.07	7	2.17	.06	.28	<2	1	15
117	4	187	8	214	.3	75	35	560	2.98	<2	<8	<2	<2	35	1.3	<3	<3	64	.77	.074	5	80	1.16	26	.10	4	2.73	.07	.03	3	1	23
RE 117	2	191	7	217	.3	76	35	576	2.99	<2	<8	<2	<2	34	1.4	<3	<3	64	.76	.076	4	81	1.16	27	.10	<3	2.77	.07	.03	<2	-	-

Sample type: MOSS MAT. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Pegasus Earth Sensing Corp. PROJECT ANYOX-97 File # 97-5724 Page 1

1645 - 1185 W. Georgia St, Vancouver BC V6E 4E6 Submitted by: Ebo Bakker

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	-80 wt. gm
20	3	8	8	51	<.3	8	6	357	3.28	2	9	<2	13	46	<.2	<3	<3	62	.57	.126	16	13	.44	62	.10	<3	.86	.02	.14	<2	<1	74
21	2	13	7	62	<.3	21	8	359	4.68	<2	24	<2	11	42	<.2	<3	<3	102	.59	.147	16	42	.57	77	.11	<3	.90	.02	.17	<2	<1	55
22	1	24	11	59	<.3	21	9	385	4.04	<2	12	<2	6	54	<.2	<3	<3	91	.48	.131	17	45	.84	75	.13	<3	1.19	.03	.21	<2	<1	48
23	7	28	22	36	<.3	14	9	562	1.36	4	38	<2	<2	37	.5	3	<3	43	.35	.074	14	22	.46	52	.09	<3	1.23	.03	.12	<2	<1	29
24	2	27	10	55	<.3	14	8	652	2.06	9	<8	<2	2	39	.2	3	<3	48	.44	.068	8	30	.57	45	.08	18	1.05	.22	.17	7	<1	42
25	7	20	16	75	<.3	10	7	653	1.65	7	175	<2	<2	61	.7	<3	<3	57	.66	.091	18	20	.43	56	.09	<3	1.60	.02	.14	<2	1	36
26	5	50	38	37	<.3	8	7	714	2.56	12	9	<2	2	32	.5	<3	3	52	.45	.090	12	10	.27	48	.07	<3	1.28	.02	.13	<2	<1	29
27	7	44	45	42	<.3	4	10	1484	2.37	12	31	<2	8	23	.6	<3	<3	50	.38	.057	12	10	.18	38	.09	<3	1.00	.01	.08	<2	1	34
28	1	90	28	102	<.3	105	27	596	3.73	9	<8	<2	<2	32	.6	5	<3	90	.41	.075	6	141	1.87	151	.19	<3	2.34	.03	.24	<2	1	89
29	5	101	12	217	<.3	60	120	8814	5.25	5	<8	<2	<2	34	7.9	<3	<3	53	1.24	.112	10	37	.28	160	.03	<3	1.71	.01	.12	<2	4	30
RE 28	1	89	26	102	<.3	103	27	591	3.74	8	<8	<2	2	32	.5	<3	<3	90	.42	.075	6	142	1.88	153	.19	<3	2.37	.03	.24	<2	<1	-
30	<1	52	9	123	<.3	66	27	882	4.84	7	<8	<2	2	18	.8	<3	<3	140	.56	.085	7	133	2.37	69	.19	<3	2.72	.02	.17	<2	1	47
31	1	36	14	105	<.3	38	24	1233	4.74	13	<8	<2	3	16	1.3	4	<3	99	.54	.095	9	72	1.93	120	.17	<3	2.34	.01	.30	<2	<1	68
32	1	48	4	93	<.3	48	15	409	2.83	7	<8	<2	<2	14	.6	3	<3	77	.40	.057	4	88	1.55	22	.15	<3	1.83	.02	.06	<2	1	96
33	1	74	6	178	<.3	53	24	903	4.39	12	<8	<2	2	26	1.7	<3	<3	130	.67	.093	5	102	1.89	136	.17	<3	2.77	.03	.22	<2	<1	64
34	4	78	35	87	<.3	22	15	597	4.33	9	<8	<2	2	17	.5	<3	3	120	.32	.075	9	54	1.15	166	.27	<3	2.80	.03	.37	<2	<1	50
35	5	93	8	116	<.3	36	27	626	5.57	<2	<8	<2	3	33	.4	3	<3	122	.53	.112	7	67	2.44	285	.20	<3	2.65	.03	.51	<2	1	27
36	2	38	21	96	<.3	16	12	430	4.51	<2	<8	<2	5	31	.5	<3	<3	94	.50	.107	10	36	1.13	144	.15	<3	1.36	.03	.29	<2	<1	72
37	5	715	42	68	1.1	10	2	126	11.72	112	<8	<2	2	9	.3	<3	<3	98	.12	.066	5	18	.13	35	.05	<3	1.62	.02	.16	<2	3	57
38	4	338	21	109	.8	14	6	271	6.40	37	<8	<2	3	12	.3	<3	<3	96	.22	.068	5	25	.51	79	.11	<3	1.88	.02	.21	<2	2	55
39	5	877	47	186	1.8	18	3	220	15.06	61	<8	<2	2	20	4.7	<3	<3	80	.27	.134	9	13	.07	65	.03	<3	1.85	.01	.24	<2	3	32
40	3	289	19	100	1.1	11	9	127	3.13	53	<8	<2	5	10	.6	6	<3	34	.25	.081	12	14	.27	18	.06	<3	.72	.01	.02	<2	66	104
41	2	84	48	139	<.3	53	7	296	2.77	10	<8	<2	4	9	.5	<3	<3	85	.09	.049	8	154	1.09	157	.14	<3	2.22	.01	.34	<2	3	79
42	3	92	43	123	<.3	51	9	360	2.51	6	<8	<2	4	12	.7	<3	<3	78	.11	.060	7	147	.99	156	.13	<3	2.29	.01	.36	<2	1	63
43	3	89	24	169	<.3	61	25	687	2.55	9	11	<2	2	16	1.4	3	<3	86	.20	.050	9	150	1.12	183	.17	<3	2.63	.02	.49	<2	1	67
44	2	47	12	64	<.3	38	9	307	2.82	2	10	<2	<2	13	.5	<3	3	72	.16	.045	3	113	.86	160	.13	<3	1.77	.01	.42	<2	<1	29
45	2	31	9	68	<.3	38	7	294	3.06	5	10	<2	2	11	<.2	<3	<3	86	.15	.035	4	131	1.04	171	.16	<3	1.73	.02	.37	<2	<1	41
46	1	48	15	71	<.3	33	31	1016	3.09	5	<8	<2	<2	29	.9	3	<3	75	.28	.059	5	94	.76	139	.15	<3	1.58	.02	.29	<2	1	60
47	3	53	14	153	<.3	56	35	1223	3.27	3	<8	<2	2	18	1.3	<3	<3	96	.22	.045	5	133	1.08	225	.18	<3	1.90	.02	.51	<2	<1	73
48	2	52	19	109	.3	52	53	1563	3.48	6	<8	<2	<2	63	1.9	4	<3	81	.55	.114	9	105	.97	171	.17	<3	1.76	.04	.34	<2	<1	52
49	1	9	5	44	<.3	29	3	157	1.52	<2	9	<2	<2	3	<.2	<3	<3	67	.05	.024	3	157	.93	140	.19	<3	1.53	.01	.33	<2	<1	73
118	1	11	6	62	<.3	21	7	326	4.45	<2	25	<2	22	47	<.2	<3	<3	96	.59	.160	15	43	.67	83	.12	<3	1.00	.04	.18	<2	<1	78
119	5	20	15	76	<.3	9	10	1067	3.47	5	17	<2	3	77	<.2	4	<3	66	.67	.145	18	17	.60	68	.11	3	1.66	.01	.13	<2	<1	33
120	4	47	26	84	<.3	18	11	671	2.04	4	37	<2	2	50	.9	<3	<3	54	.58	.154	12	25	.58	88	.12	3	2.56	.03	.34	<2	<1	36
121	2	20	7	56	<.3	16	8	400	2.83	<2	14	<2	7	38	<.2	<3	<3	78	.55	.119	11	28	.56	68	.14	<3	.95	.04	.15	<2	<1	92
STANDARD C3/AU-S	26	63	34	146	5.6	37	11	753	3.38	53	16	<2	19	28	23.0	17	22	85	.58	.087	19	167	.60	148	.10	19	1.85	.04	.16	20	47	-

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.
- SAMPLE TYPE: MOSS MAT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 29 1997 DATE REPORT MAILED: Oct 9/97 SIGNED BY. . . . . D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

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	-80 Wt. gm
122	2	29	10	75	<.3	37	13	608	2.74	8	<8	<2	2	36	.8	<3	4	69	.53	.096	11	56	.91	65	.11	<3	1.43	.03	.11	3	7	94
123	2	16	11	62	<.3	19	6	359	2.20	3	10	<2	5	39	.3	<3	<3	51	.44	.107	17	34	.63	118	.10	<3	1.14	.02	.13	<2	1	62
RE 123	2	19	10	68	<.3	21	7	387	2.40	4	19	<2	5	41	.4	4	<3	56	.48	.119	19	38	.68	135	.11	<3	1.24	.02	.15	2	3	-
124	1	21	12	42	<.3	12	7	432	3.75	5	18	<2	19	26	.8	3	3	93	.47	.093	20	26	.36	44	.11	<3	.85	.02	.13	<2	<1	65
125	15	97	52	346	.5	28	24	2450	3.61	31	19	<2	3	46	5.8	6	<3	85	.49	.068	15	35	.47	66	.10	<3	2.49	.02	.16	<2	2	35
126	2	57	3	95	<.3	58	17	478	3.93	7	<8	<2	4	26	1.3	6	<3	96	.75	.077	7	94	1.38	43	.20	<3	1.89	.06	.10	<2	<1	69
127	1	13	3	30	<.3	11	3	271	.43	<2	<8	<2	<2	36	.6	<3	<3	8	1.07	.142	2	13	.15	18	<.01	6	.32	.01	.14	<2	34	24
128	1	319	<3	205	.3	86	30	882	5.12	6	<8	<2	<2	36	1.6	<3	<3	161	.82	.062	4	180	3.03	19	.38	<3	3.18	.07	.03	3	1	80
129	1	132	24	133	<.3	94	36	970	4.10	9	<8	<2	<2	34	1.6	4	<3	124	.67	.095	8	125	1.99	75	.18	<3	2.84	.05	.23	<2	3	38
130	1	50	10	82	<.3	37	17	613	3.17	4	<8	<2	2	21	1.3	3	<3	79	.62	.089	7	70	1.39	40	.13	<3	1.81	.02	.11	<2	2	34
131	2	56	12	139	<.3	55	30	1912	4.19	14	<8	<2	<2	25	3.6	4	<3	120	.73	.089	6	98	1.80	128	.15	<3	2.61	.03	.26	<2	3	44
132	3	66	8	225	<.3	89	61	3165	5.24	30	9	<2	<2	19	7.9	6	3	132	.68	.115	6	103	2.07	199	.17	<3	2.82	.03	.56	2	2	36
133	5	84	11	275	<.3	98	54	3828	5.06	36	<8	<2	2	22	10.6	6	3	121	.77	.117	7	103	1.94	167	.14	<3	2.74	.03	.31	3	1	39
134	1	87	10	113	.3	50	31	1002	4.42	7	<8	<2	<2	36	1.3	5	<3	141	.92	.110	5	115	1.93	160	.20	<3	2.82	.06	.34	<2	2	64
135	3	46	20	91	<.3	17	12	439	5.03	4	<8	<2	4	25	1.0	4	4	105	.47	.090	13	38	1.05	109	.15	<3	1.30	.03	.24	2	3	62
136	2	43	22	107	<.3	22	14	471	4.37	<2	<8	<2	6	32	1.0	4	<3	96	.52	.086	11	46	1.44	132	.18	<3	1.74	.03	.35	2	45	74
137	3	40	23	104	.3	19	13	473	4.93	3	<8	<2	5	33	1.1	4	<3	103	.58	.122	12	41	1.24	146	.17	<3	1.51	.03	.33	<2	2	62
138	9	367	43	1388	1.6	107	68	9249	5.52	98	9	<2	<2	89	45.6	5	<3	72	.78	.114	13	43	.61	174	.06	<3	2.79	.03	.21	2	9	32
STANDARD C3/AU-S	24	60	34	142	5.3	36	11	745	3.31	50	21	3	19	29	22.2	17	22	84	.59	.084	19	167	.58	145	.10	20	1.84	.04	.16	19	45	-

Sample type: MOSS MAT. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Pegasus Earth Sensing Corp. PROJECT ANYOX-97 File # 97-5725

1645 - 1185 W. Georgia St, Vancouver BC V6E 4E6 Submitted by: Ebo Bakker

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag** oz/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au** oz/t
E 78551	<.001	.001	<.01	<.01	.01	.001	<.001	<.01	.41	<.01	<.01	<.01	<.001	.001	<.01	<.001
E 78552	<.001	.002	<.01	<.01	<.01	.001	<.001	.01	.30	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78553	.001	.002	<.01	<.01	.02	<.001	<.001	.01	.97	<.01	<.01	<.01	<.001	.001	<.01	<.001
E 78554	<.001	.002	<.01	.02	.02	.002	<.001	.01	.67	<.01	<.01	<.01	<.001	.001	<.01	.001
E 78555	<.001	.003	<.01	.01	.02	.002	<.001	.01	.49	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78556	<.001	.002	<.01	<.01	.03	<.001	<.001	<.01	.36	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78557	<.001	.001	<.01	<.01	<.01	.001	<.001	.01	.76	<.01	<.01	<.01	<.001	.001	<.01	.001
E 78601	<.001	.001	<.01	<.01	<.01	<.001	<.001	.02	1.03	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78602	<.001	.004	<.01	<.01	<.01	.001	.001	.04	2.65	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78603	<.001	.009	<.01	<.01	.01	.002	.001	.06	2.91	<.01	<.01	<.01	<.001	.001	<.01	.003
E 78604	<.001	.095	<.01	<.01	.03	.003	.005	.03	4.17	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78605	<.001	.001	<.01	<.01	.01	.001	<.001	.02	.40	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78606	<.001	.003	<.01	<.01	.03	.002	.001	.01	.64	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78607	<.001	.025	<.01	<.01	<.01	.004	.002	.03	2.70	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78608	.001	.073	<.01	.01	.01	.002	.001	.02	2.35	<.01	<.01	<.01	<.001	.001	<.01	<.001
E 78609	<.001	.002	<.01	<.01	.03	.001	<.001	.02	1.31	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78610	<.001	<.001	<.01	<.01	.02	.001	<.001	.02	.58	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78611	<.001	.010	<.01	<.01	<.01	.004	.002	.08	6.86	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78612	<.001	.009	<.01	.01	<.01	.006	.003	.09	5.66	<.01	<.01	<.01	<.001	<.001	<.01	<.001
RE E 78612	<.001	.008	<.01	.01	.01	.007	.003	.09	5.82	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78613	.001	.002	<.01	.01	.01	.002	<.001	.02	.89	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78614	<.001	.004	.02	<.01	3.08	.002	<.001	.01	.99	<.01	<.01	<.01	<.001	<.001	<.01	.002
E 78615	.001	.005	<.01	.05	.08	.002	<.001	.03	2.52	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78616	.003	.002	<.01	.02	<.01	.001	<.001	<.01	.62	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78617	<.001	.001	<.01	<.01	.01	<.001	<.001	<.01	.33	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78618	<.001	.003	<.01	<.01	.01	.002	<.001	.02	1.13	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78619	<.001	.006	<.01	<.01	.01	.003	.001	.02	1.06	<.01	<.01	<.01	<.001	<.001	<.01	.001
E 78620	<.001	.007	<.01	.01	.04	.001	<.001	.05	4.77	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78621	<.001	.005	<.01	.01	<.01	.002	<.001	.03	3.22	<.01	<.01	<.01	<.001	<.001	<.01	<.001
E 78622	<.001	.003	<.01	<.01	.03	.002	<.001	.01	.35	<.01	<.01	<.01	<.001	<.001	<.01	<.001
STANDARD R-1/AU-1	.089	.850	1.32	2.31	2.90	.027	.025	.08	6.73	.99	.02	.01	.048	.164	.03	.095

1 GM SAMPLE DIGESTED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
AG** & AU** BY FIRE ASSAY FROM 1.A.T. SAMPLE.
- SAMPLE TYPE: ROCK
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 29 1997 DATE REPORT MAILED: Oct 7/97 SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data FA

APPENDIX III

Statistical Analysis of Geochemical Data (Moss Mat Samples)

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Mo Unit = (ppm) N = 87

Mean =	6.247	Min =	0.500	1st Quartile =	2.000
Std. Dev. =	8.563	Max =	45.000	Median =	3.000
CV % =	137.071	Skewness =	2.956	3rd Quartile =	6.000

%	cum %	cls int	(# of bins = 20 - bin size = 2.342)
0.00	0.57	-0.671	
17.24	17.61	1.671	**********
43.68	60.80	4.013	**********
16.09	76.70	6.355	**********
9.20	85.80	8.697	********
2.30	88.07	11.039	**
1.15	89.20	13.382	*
1.15	90.34	15.724	*
1.15	91.48	18.066	*
1.15	92.61	20.408	*
0.00	92.61	22.750	
2.30	94.89	25.092	**
0.00	94.89	27.434	
0.00	94.89	29.776	
1.15	96.02	32.118	*
0.00	96.02	34.461	
1.15	97.16	36.803	*
0.00	97.16	39.145	
0.00	97.16	41.487	
1.15	98.30	43.829	*
1.15	99.43	46.171	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Mo Unit = (ppm) N = 87

Mean =	0.5690	Min =	-0.3010	1st Quartile =	0.3010
Std. Dev. =	0.4151	Max =	1.6532	Median =	0.4771
CV % =	72.9631	Skewness =	0.5315	3rd Quartile =	0.7782

Anti-Log Mean = 3.707 Anti-Log Std. Dev. : (-) 1.425
(+) 9.641

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1029)
0.00	0.57	0.444	-0.3525	
1.15	1.70	0.563	-0.2496	*
0.00	1.70	0.713	-0.1467	
0.00	1.70	0.904	-0.0439	
16.09	17.61	1.145	0.0590	**********
0.00	17.61	1.451	0.1618	
0.00	17.61	1.839	0.2647	
14.94	32.39	2.331	0.3675	**********
0.00	32.39	2.954	0.4704	
18.39	50.57	3.743	0.5732	**********
10.34	60.80	4.743	0.6761	*********
16.09	76.70	6.011	0.7789	**********
8.05	84.66	7.617	0.8818	*******
2.30	86.93	9.653	0.9847	**
1.15	88.07	12.232	1.0875	*
2.30	90.34	15.501	1.1904	**
1.15	91.48	19.644	1.2932	*
3.45	94.89	24.893	1.3961	***
0.00	94.89	31.545	1.4989	
2.30	97.16	39.975	1.6018	**
2.30	99.43	50.657	1.7046	**

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Mo Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.955	-	0.798	15.00
		+	1.142	
2	2.434	-	1.379	55.00
		+	4.296	
3	5.987	-	4.980	17.00
		+	7.197	
4	21.198	-	12.477	13.00
		+	36.014	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.668	1.366
2	0.782	7.582
3	4.143	8.652
4	7.344	61.187

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Cu Unit = (ppm) N = 87

Mean =	88.420	Min =	8.000	1st Quartile =	23.250
Std. Dev. =	137.231	Max =	877.000	Median =	45.500
CV % =	155.204	Skewness =	3.690	3rd Quartile =	86.250

%	cum %	cls int	(# of bins = 20 - bin size = 45.737)
0.00	0.57	-14.868	
33.33	33.52	30.868	**********
37.93	71.02	76.605	**********
13.79	84.66	122.342	**********
3.45	88.07	168.079	***
1.15	89.20	213.816	*
1.15	90.34	259.553	*
1.15	91.48	305.289	*
4.60	96.02	351.026	****
1.15	97.16	396.763	*
0.00	97.16	442.500	
0.00	97.16	488.237	
0.00	97.16	533.974	
0.00	97.16	579.711	
0.00	97.16	625.447	
0.00	97.16	671.184	
1.15	98.30	716.921	*
0.00	98.30	762.658	
0.00	98.30	808.395	
0.00	98.30	854.132	
1.15	99.43	899.868	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Cu Unit = (ppm) N = 87

Mean =	1.6921	Min =	0.9031	1st Quartile =	1.3663
Std. Dev. =	0.4294	Max =	2.9430	Median =	1.6580
CV % =	25.3763	Skewness =	0.6857	3rd Quartile =	1.9357

Anti-Log Mean = 49.221 Anti-Log Std. Dev. : (-) 18.312
(+) 132.299

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1074)
0.00	0.57	7.070	0.8494	
2.30	2.84	9.053	0.9568	**
2.30	5.11	11.591	1.0641	**
5.75	10.80	14.842	1.1715	*****
6.90	17.61	19.005	1.2789	******
8.05	25.57	24.335	1.3862	*******
9.20	34.66	31.159	1.4936	********
6.90	41.48	39.898	1.6010	******
17.24	58.52	51.088	1.7083	**********
8.05	66.48	65.416	1.8157	*******
5.75	72.16	83.762	1.9230	*****
12.64	84.66	107.253	2.0304	**********
2.30	86.93	137.332	2.1378	**
1.15	88.07	175.847	2.2451	*
1.15	89.20	225.164	2.3525	*
1.15	90.34	288.312	2.4599	*
6.90	97.16	369.170	2.5672	******
0.00	97.16	472.705	2.6746	
0.00	97.16	605.277	2.7820	
1.15	98.30	775.029	2.8893	*
1.15	99.43	992.388	2.9967	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Cu Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	11.582	-	9.490	10.00
		+	14.137	
2	35.913	-	22.040	65.00
		+	58.520	
3	88.325	-	85.204	7.00
		+	91.561	
4	104.423	-	88.444	5.00
		+	123.289	
5	312.006	-	180.784	13.00
		+	538.475	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	7.775	17.255
2	13.526	95.357
3	82.192	94.915
4	74.911	145.563
5	104.751	929.326

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Pb		Unit = (ppm)		N =	87
Mean =	25.402	Min =	1.500	1st Quartile =	10.000
Std. Dev. =	27.457	Max =	194.000	Median =	16.500
CV % =	108.089	Skewness =	3.419	3rd Quartile =	29.000

%	cum %	cls int	(# of bins = 20 - bin size = 10.132)
0.00	0.57	-3.566	
10.34	10.80	6.566	*********
39.08	49.43	16.697	************************************
21.84	71.02	26.829	********************
8.05	78.98	36.961	*******
8.05	86.93	47.092	*******
4.60	91.48	57.224	****
0.00	91.48	67.355	
5.75	97.16	77.487	*****
0.00	97.16	87.618	
0.00	97.16	97.750	
0.00	97.16	107.882	
0.00	97.16	118.013	
1.15	98.30	128.145	*
0.00	98.30	138.276	
0.00	98.30	148.408	
0.00	98.30	158.539	
0.00	98.30	168.671	
0.00	98.30	178.803	
0.00	98.30	188.934	
1.15	99.43	199.066	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Pb Unit = (ppm) N = 87

Mean =	1.2399	Min =	0.1761	1st Quartile =	1.0000
Std. Dev. =	0.3780	Max =	2.2878	Median =	1.2173
CV % =	30.4847	Skewness =	0.0135	3rd Quartile =	1.4624

Anti-Log Mean = 17.373 Anti-Log Std. Dev. : (-) 7.276
(+) 41.482

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1111)
0.00	0.57	1.320	0.1205	
1.15	1.70	1.705	0.2317	*
0.00	1.70	2.202	0.3428	
0.00	1.70	2.844	0.4539	
3.45	5.11	3.674	0.5651	***
1.15	6.25	4.745	0.6762	*
4.60	10.80	6.129	0.7874	****
3.45	14.20	7.916	0.8985	***
13.79	27.84	10.225	1.0097	**********
11.49	39.20	13.207	1.1208	**********
12.64	51.70	17.059	1.2319	**********
10.34	61.93	22.034	1.3431	*********
11.49	73.30	28.460	1.4542	**********
5.75	78.98	36.760	1.5654	*****
8.05	86.93	47.481	1.6765	*******
4.60	91.48	61.328	1.7877	****
5.75	97.16	79.214	1.8988	*****
0.00	97.16	102.316	2.0099	
1.15	98.30	132.156	2.1211	*
0.00	98.30	170.699	2.2322	
1.15	99.43	220.482	2.3434	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Pb Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	3.053	-	2.035	7.00
		+	4.580	
2	6.964	-	5.940	10.00
		+	8.164	
3	15.130	-	10.131	58.00
		+	22.596	
4	44.832	-	33.234	22.00
		+	60.476	
5	105.970	-	66.205	3.00
		+	169.619	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	1.357	6.871
2	5.067	9.571
3	6.784	33.745
4	24.637	81.580
5	41.362	271.497

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Zn Unit = (ppm) N = 87

Mean =	123.138	Min =	24.000	1st Quartile =	56.750
Std. Dev. =	159.496	Max =	1388.000	Median =	85.500
CV % =	129.526	Skewness =	6.090	3rd Quartile =	130.500

%	cum %	cls int	(# of bins = 20 - bin size = 71.789)
0.00	0.57	-11.895	
25.29	25.57	59.895	**********
49.43	74.43	131.684	********** --> 43
12.64	86.93	203.474	**********
8.05	94.89	275.263	*******
2.30	97.16	347.053	**
0.00	97.16	418.842	
0.00	97.16	490.632	
0.00	97.16	562.421	
1.15	98.30	634.211	*
0.00	98.30	706.000	
0.00	98.30	777.789	
0.00	98.30	849.579	
0.00	98.30	921.368	
0.00	98.30	993.158	
0.00	98.30	1064.947	
0.00	98.30	1136.737	
0.00	98.30	1208.526	
0.00	98.30	1280.316	
0.00	98.30	1352.105	
1.15	99.43	1423.895	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Zn Unit = (ppm) N = 87

Mean =	1.9641	Min =	1.3802	1st Quartile =	1.7539
Std. Dev. =	0.2891	Max =	3.1424	Median =	1.9319
CV % =	14.7189	Skewness =	1.0119	3rd Quartile =	2.1154

Anti-Log Mean = 92.059 Anti-Log Std. Dev. : (-) 47.313
(+) 179.124

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0927)
0.00	0.57	21.569	1.3338	
1.15	1.70	26.704	1.4266	*
1.15	2.84	33.062	1.5193	*
5.75	8.52	40.933	1.6121	*****
6.90	15.34	50.678	1.7048	******
12.64	27.84	62.744	1.7976	**********
18.39	46.02	77.681	1.8903	**********
11.49	57.39	96.175	1.9831	**********
14.94	72.16	119.072	2.0758	**********
6.90	78.98	147.419	2.1686	******
5.75	84.66	182.516	2.2613	*****
8.05	92.61	225.968	2.3540	*******
2.30	94.89	279.765	2.4468	**
2.30	97.16	346.369	2.5395	**
0.00	97.16	428.830	2.6323	
0.00	97.16	530.923	2.7250	
1.15	98.30	657.321	2.8178	*
0.00	98.30	813.812	2.9105	
0.00	98.30	1007.558	3.0033	
0.00	98.30	1247.430	3.0960	
1.15	99.43	1544.410	3.1888	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Zn Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	29.036	-	24.340	4.00
		+	34.639	
2	69.216	-	49.352	68.00
		+	97.075	
3	171.092	-	132.719	23.00
		+	220.559	
4	472.014	-	243.602	5.00
		+	914.598	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	20.403	41.323
2	35.189	136.148
3	102.952	284.329
4	125.720	1772.168

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Ag		Unit = (ppm)		N =	87
Mean =	0.282	Min =	0.150	1st Quartile =	0.150
Std. Dev. =	0.305	Max =	1.800	Median =	0.150
CV % =	108.275	Skewness =	3.090	3rd Quartile =	0.300

%	cum %	cls int	(# of bins = 20 - bin size = 0.087)
0.00	0.57	0.107	
71.26	71.02	0.193	********** --> 62
0.00	71.02	0.280	
11.49	82.39	0.367	**********
4.60	86.93	0.454	****
2.30	89.20	0.541	**
0.00	89.20	0.628	
2.30	91.48	0.714	**
1.15	92.61	0.801	*
0.00	92.61	0.888	
2.30	94.89	0.975	**
0.00	94.89	1.062	
2.30	97.16	1.149	**
0.00	97.16	1.236	
0.00	97.16	1.322	
0.00	97.16	1.409	
0.00	97.16	1.496	
0.00	97.16	1.583	
1.15	98.30	1.670	*
0.00	98.30	1.757	
1.15	99.43	1.843	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Ag Unit = (ppm) N = 87

Mean =	-0.6720	Min =	-0.8239	1st Quartile =	-0.8239
Std. Dev. =	0.2754	Max =	0.2553	Median =	-0.8239
CV % =	40.9881	Skewness =	1.7550	3rd Quartile =	-0.5229

Anti-Log Mean = 0.213 Anti-Log Std. Dev. : (-) 0.113
(+) 0.401

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0568)
0.00	0.57	0.141	-0.8523	
71.26	71.02	0.160	-0.7955	********** --> 62
0.00	71.02	0.183	-0.7387	
0.00	71.02	0.208	-0.6819	
0.00	71.02	0.237	-0.6251	
0.00	71.02	0.270	-0.5683	
11.49	82.39	0.308	-0.5115	**********
0.00	82.39	0.351	-0.4547	
4.60	86.93	0.400	-0.3979	****
0.00	86.93	0.456	-0.3411	
2.30	89.20	0.520	-0.2843	**
0.00	89.20	0.592	-0.2275	
0.00	89.20	0.675	-0.1707	
2.30	91.48	0.769	-0.1139	**
1.15	92.61	0.877	-0.0571	*
2.30	94.89	0.999	-0.0003	**
2.30	97.16	1.139	0.0565	**
0.00	97.16	1.298	0.1133	
0.00	97.16	1.479	0.1701	
1.15	98.30	1.686	0.2269	*
1.15	99.43	1.922	0.2837	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Ag Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.150	-	0.148	65.00
		+	0.152	
2	0.173	-	0.127	20.00
		+	0.235	
3	0.486	-	0.381	7.00
		+	0.621	
4	1.011	-	0.722	8.00
		+	1.417	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.147	0.153
2	0.094	0.320
3	0.298	0.794
4	0.515	1.985

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Ni Unit = (ppm) N = 87

Mean =	31.190	Min =	4.000	1st Quartile =	8.250
Std. Dev. =	26.924	Max =	107.000	Median =	21.000
CV % =	86.325	Skewness =	1.088	3rd Quartile =	49.500

%	cum %	cls int	(# of bins = 20 - bin size = 5.421)
0.00	0.57	1.289	
16.09	16.48	6.711	**********
17.24	33.52	12.132	**********
9.20	42.61	17.553	********
12.64	55.11	22.974	**********
2.30	57.39	28.395	**
4.60	61.93	33.816	****
9.20	71.02	39.237	********
0.00	71.02	44.658	
4.60	75.57	50.079	****
5.75	81.25	55.500	*****
3.45	84.66	60.921	***
4.60	89.20	66.342	****
1.15	90.34	71.763	*
1.15	91.48	77.184	*
0.00	91.48	82.605	
2.30	93.75	88.026	**
1.15	94.89	93.447	*
2.30	97.16	98.868	**
0.00	97.16	104.289	
2.30	99.43	109.711	**

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Ni Unit = (ppm) N = 87

Mean =	1.3180	Min =	0.6021	1st Quartile =	0.9159
Std. Dev. =	0.4138	Max =	2.0294	Median =	1.3222
CV % =	31.3965	Skewness =	-0.0904	3rd Quartile =	1.6945

Anti-Log Mean = 20.796 Anti-Log Std. Dev. : (-) 8.020
(+) 53.922

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0751)
0.00	0.57	3.669	0.5645	
5.75	6.25	4.361	0.6396	*****
2.30	8.52	5.185	0.7147	**
8.05	16.48	6.164	0.7899	*******
2.30	18.75	7.328	0.8650	**
5.75	24.43	8.712	0.9401	*****
5.75	30.11	10.357	1.0152	*****
3.45	33.52	12.313	1.0904	***
3.45	36.93	14.638	1.1655	***
5.75	42.61	17.402	1.2406	*****
5.75	48.30	20.688	1.3157	*****
6.90	55.11	24.595	1.3908	******
4.60	59.66	29.239	1.4660	****
3.45	63.07	34.761	1.5411	***
8.05	71.02	41.325	1.6162	*******
3.45	74.43	49.128	1.6913	***
9.20	83.52	58.406	1.7665	********
6.90	90.34	69.435	1.8416	******
1.15	91.48	82.547	1.9167	*
5.75	97.16	98.135	1.9918	*****
2.30	99.43	116.666	2.0669	**

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Ni Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	5.058	-	4.174	12.00
		+	6.129	
2	15.137	-	8.170	59.00
		+	28.045	
3	54.459	-	44.133	22.00
		+	67.202	
4	94.186	-	85.430	7.00
		+	103.839	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	3.444	7.427
2	4.410	51.960
3	35.765	82.926
4	77.488	114.482

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Cr Unit = (ppm) N = 87

Mean =	53.753	Min =	7.000	1st Quartile =	14.500
Std. Dev. =	44.820	Max =	180.000	Median =	38.000
CV % =	83.381	Skewness =	0.984	3rd Quartile =	86.125

%	cum %	cls int	(# of bins = 20 - bin size = 9.105)
0.00	0.57	2.447	
10.34	10.80	11.553	*********
20.69	31.25	20.658	*******************
9.20	40.34	29.763	********
10.34	50.57	38.868	*********
10.34	60.80	47.974	*********
4.60	65.34	57.079	****
3.45	68.75	66.184	***
4.60	73.30	75.289	****
1.15	74.43	84.395	*
2.30	76.70	93.500	**
4.60	81.25	102.605	****
3.45	84.66	111.711	***
3.45	88.07	120.816	***
1.15	89.20	129.921	*
3.45	92.61	139.026	***
2.30	94.89	148.132	**
3.45	98.30	157.237	***
0.00	98.30	166.342	
0.00	98.30	175.447	
1.15	99.43	184.553	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Cr Unit = (ppm) N = 87

Mean =	1.5679	Min =	0.8451	1st Quartile =	1.1606
Std. Dev. =	0.3943	Max =	2.2553	Median =	1.5798
CV % =	25.1454	Skewness =	-0.0499	3rd Quartile =	1.9348

Anti-Log Mean = 36.974 Anti-Log Std. Dev. : (-) 14.916
(+) 91.654

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0742)
0.00	0.57	6.427	0.8080	
2.30	2.84	7.624	0.8822	**
2.30	5.11	9.045	0.9564	**
3.45	8.52	10.731	1.0306	***
5.75	14.20	12.731	1.1049	*****
10.34	24.43	15.104	1.1791	*********
3.45	27.84	17.919	1.2533	***
3.45	31.25	21.258	1.3275	***
5.75	36.93	25.220	1.4017	*****
3.45	40.34	29.920	1.4760	***
4.60	44.89	35.496	1.5502	****
9.20	53.98	42.112	1.6244	********
6.90	60.80	49.960	1.6986	******
5.75	66.48	59.271	1.7728	*****
5.75	72.16	70.318	1.8471	*****
2.30	74.43	83.423	1.9213	**
5.75	80.11	98.970	1.9955	*****
8.05	88.07	117.415	2.0697	*******
4.60	92.61	139.297	2.1439	****
5.75	98.30	165.258	2.2182	*****
1.15	99.43	196.057	2.2924	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Cr Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	10.661	-	8.569	17.00
		+	13.264	
2	19.417	-	13.928	28.00
		+	27.070	
3	46.793	-	38.004	25.00
		+	57.614	
4	108.177	-	82.129	30.00
		+	142.486	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	6.888	16.502
2	9.990	37.739
3	30.865	70.939
4	62.353	187.677

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = V Unit = (ppm) N = 87

Mean =	83.368	Min =	8.000	1st Quartile =	57.250
Std. Dev. =	35.020	Max =	233.000	Median =	79.500
CV % =	42.007	Skewness =	1.100	3rd Quartile =	99.000

%	cum %	cls int	(# of bins = 20 - bin size = 11.842)
0.00	0.57	2.079	
1.15	1.70	13.921	*
0.00	1.70	25.763	
4.60	6.25	37.605	****
9.20	15.34	49.447	********
12.64	27.84	61.289	**********
11.49	39.20	73.132	**********
13.79	52.84	84.974	**********
19.54	72.16	96.816	**********
9.20	81.25	108.658	********
4.60	85.80	120.500	****
8.05	93.75	132.342	*******
2.30	96.02	144.184	**
0.00	96.02	156.026	
1.15	97.16	167.868	*
1.15	98.30	179.711	*
0.00	98.30	191.553	
0.00	98.30	203.395	
0.00	98.30	215.237	
0.00	98.30	227.079	
1.15	99.43	238.921	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = V Unit = (ppm) N = 87

Mean =	1.8804	Min =	0.9031	1st Quartile =	1.7578
Std. Dev. =	0.2029	Max =	2.3674	Median =	1.9004
CV % =	10.7930	Skewness =	-1.2726	3rd Quartile =	1.9956

Anti-Log Mean = 75.921 Anti-Log Std. Dev. : (-) 47.579
(+) 121.147

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0771)
0.00	0.57	7.321	0.8646	
1.15	1.70	8.742	0.9416	*
0.00	1.70	10.440	1.0187	
0.00	1.70	12.467	1.0958	
0.00	1.70	14.888	1.1728	
0.00	1.70	17.778	1.2499	
0.00	1.70	21.230	1.3270	
0.00	1.70	25.353	1.4040	
1.15	2.84	30.275	1.4811	*
3.45	6.25	36.154	1.5582	***
2.30	8.52	43.174	1.6352	**
9.20	17.61	51.557	1.7123	********
10.34	27.84	61.568	1.7894	*********
11.49	39.20	73.523	1.8664	**********
20.69	59.66	87.799	1.9435	**********
20.69	80.11	104.847	2.0206	**********
10.34	90.34	125.205	2.0976	*********
5.75	96.02	149.517	2.1747	*****
2.30	98.30	178.548	2.2518	**
0.00	98.30	213.217	2.3288	
1.15	99.43	254.618	2.4059	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = V Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 2

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	19.522	-	9.014	3.00
		+	42.279	
2	78.814	-	53.395	97.00
		+	116.334	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	4.162	91.565
2	36.174	171.716

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Co Unit = (ppm) N = 87

Mean =	23.316	Min =	2.000	1st Quartile =	7.000
Std. Dev. =	39.587	Max =	342.000	Median =	12.500
CV % =	169.783	Skewness =	6.306	3rd Quartile =	26.750

%	cum %	cls int	(# of bins = 20 - bin size = 17.895)
0.00	0.57	-6.947	
42.53	42.61	10.947	************************************
36.78	78.98	28.842	**********************************
11.49	90.34	46.737	**********
4.60	94.89	64.632	****
1.15	96.02	82.526	*
1.15	97.16	100.421	*
0.00	97.16	118.316	
1.15	98.30	136.211	*
0.00	98.30	154.105	
0.00	98.30	172.000	
0.00	98.30	189.895	
0.00	98.30	207.789	
0.00	98.30	225.684	
0.00	98.30	243.579	
0.00	98.30	261.474	
0.00	98.30	279.368	
0.00	98.30	297.263	
0.00	98.30	315.158	
0.00	98.30	333.053	
1.15	99.43	350.947	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Co Unit = (ppm) N = 87

Mean =	1.1575	Min =	0.3010	1st Quartile =	0.8451
Std. Dev. =	0.3848	Max =	2.5340	Median =	1.0966
CV % =	33.2403	Skewness =	0.6088	3rd Quartile =	1.4273

Anti-Log Mean = 14.371 Anti-Log Std. Dev. : (-) 5.926
(+) 34.853

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1175)
0.00	0.57	1.747	0.2423	
1.15	1.70	2.290	0.3598	*
3.45	5.11	3.001	0.4773	***
0.00	5.11	3.934	0.5948	
3.45	8.52	5.157	0.7124	***
6.90	15.34	6.759	0.8299	******
14.94	30.11	8.860	0.9474	**********
17.24	47.16	11.613	1.0649	**********
9.20	56.25	15.222	1.1825	********
9.20	65.34	19.953	1.3000	********
9.20	74.43	26.153	1.4175	********
10.34	84.66	34.281	1.5351	*********
5.75	90.34	44.935	1.6526	*****
3.45	93.75	58.899	1.7701	***
2.30	96.02	77.203	1.8876	**
1.15	97.16	101.195	2.0052	*
1.15	98.30	132.643	2.1227	*
0.00	98.30	173.864	2.2402	
0.00	98.30	227.896	2.3577	
0.00	98.30	298.719	2.4753	
1.15	99.43	391.552	2.5928	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Co Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	3.306	-	2.460	8.00
		+	4.444	
2	8.304	-	6.498	42.00
		+	10.612	
3	17.650	-	14.407	22.00
		+	21.622	
4	30.530	-	24.787	20.00
		+	37.602	
5	82.739	-	43.231	8.00
		+	158.355	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	1.830	5.973
2	5.084	13.563
3	11.760	26.489
4	20.125	46.313
5	22.588	303.075

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Cd Unit = (ppm) N = 87

Mean =	2.061	Min =	0.100	1st Quartile =	0.500
Std. Dev. =	5.127	Max =	45.600	Median =	0.900
CV % =	248.794	Skewness =	7.239	3rd Quartile =	1.600

%	cum %	cls int	(# of bins = 20 - bin size = 2.395)
0.00	0.57	-1.097	
58.62	58.52	1.297	********** --> 51
32.18	90.34	3.692	**********
3.45	93.75	6.087	***
2.30	96.02	8.482	**
2.30	98.30	10.876	**
0.00	98.30	13.271	
0.00	98.30	15.666	
0.00	98.30	18.061	
0.00	98.30	20.455	
0.00	98.30	22.850	
0.00	98.30	25.245	
0.00	98.30	27.639	
0.00	98.30	30.034	
0.00	98.30	32.429	
0.00	98.30	34.824	
0.00	98.30	37.218	
0.00	98.30	39.613	
0.00	98.30	42.008	
0.00	98.30	44.403	
1.15	99.43	46.797	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Cd Unit = (ppm) N = 87

Mean =	-0.0317	Min =	-1.0000	1st Quartile =	-0.3010
Std. Dev. =	0.5006	Max =	1.6590	Median =	-0.0458
CV % =	1578.5918	Skewness =	0.2587	3rd Quartile =	0.2041

Anti-Log Mean = 0.930 Anti-Log Std. Dev. : (-) 0.294
(+) 2.944

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1399)
0.00	0.57	0.085	-1.0700	
9.20	9.66	0.117	-0.9300	********
0.00	9.66	0.162	-0.7901	
1.15	10.80	0.224	-0.6501	*
3.45	14.20	0.309	-0.5102	***
4.60	18.75	0.426	-0.3702	****
10.34	28.98	0.588	-0.2303	*********
18.39	47.16	0.812	-0.0904	*****************
11.49	58.52	1.121	0.0496	**********
13.79	72.16	1.547	0.1895	************
10.34	82.39	2.135	0.3295	*********
4.60	86.93	2.947	0.4694	****
3.45	90.34	4.068	0.6094	***
2.30	92.61	5.615	0.7493	**
1.15	93.75	7.749	0.8893	*
4.60	98.30	10.696	1.0292	****
0.00	98.30	14.762	1.1692	
0.00	98.30	20.375	1.3091	
0.00	98.30	28.122	1.4490	
0.00	98.30	38.814	1.5890	
1.15	99.43	53.572	1.7289	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Cd Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.100	-	0.099	6.00
		+	0.101	
2	0.150	-	0.087	9.00
		+	0.258	
3	0.754	-	0.507	55.00
		+	1.123	
4	1.943	-	1.507	18.00
		+	2.505	
5	6.974	-	3.325	12.00
		+	14.628	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.098	0.102
2	0.050	0.445
3	0.341	1.671
4	1.169	3.230
5	1.585	30.681

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = U Unit = (ppm) N = 87

Mean =	12.448	Min =	4.000	1st Quartile =	4.000
Std. Dev. =	20.408	Max =	175.000	Median =	4.000
CV % =	163.945	Skewness =	6.115	3rd Quartile =	13.750

%	cum %	cls int	(# of bins = 20 - bin size = 9.000)
0.00	0.57	-0.500	
54.02	53.98	8.500	********** --> 47
25.29	78.98	17.500	**********
12.64	91.48	26.500	**********
3.45	94.89	35.500	***
2.30	97.16	44.500	**
0.00	97.16	53.500	
0.00	97.16	62.500	
1.15	98.30	71.500	*
0.00	98.30	80.500	
0.00	98.30	89.500	
0.00	98.30	98.500	
0.00	98.30	107.500	
0.00	98.30	116.500	
0.00	98.30	125.500	
0.00	98.30	134.500	
0.00	98.30	143.500	
0.00	98.30	152.500	
0.00	98.30	161.500	
0.00	98.30	170.500	
1.15	99.43	179.500	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = U Unit = (ppm) N = 87

Mean =	0.8945	Min =	0.6021	1st Quartile =	0.6021
Std. Dev. =	0.3630	Max =	2.2430	Median =	0.6021
CV % =	40.5780	Skewness =	1.0729	3rd Quartile =	1.1381

Anti-Log Mean = 7.844 Anti-Log Std. Dev. : (-) 3.401
(+) 18.094

(# of bins = 20 - bin size = 0.0864)

%	cum %	antilog	cls int	
0.00	0.57	3.621	0.5589	
52.87	52.84	4.418	0.6452	********** --> 46
0.00	52.84	5.390	0.7316	
0.00	52.84	6.576	0.8180	
1.15	53.98	8.023	0.9043	*
8.05	61.93	9.788	0.9907	*******
6.90	68.75	11.942	1.0771	******
8.05	76.70	14.570	1.1634	*******
2.30	78.98	17.775	1.2498	**
5.75	84.66	21.686	1.3362	*****
6.90	91.48	26.458	1.4225	******
3.45	94.89	32.279	1.5089	***
2.30	97.16	39.381	1.5953	**
0.00	97.16	48.045	1.6817	
0.00	97.16	58.616	1.7680	
1.15	98.30	71.513	1.8544	*
0.00	98.30	87.247	1.9408	
0.00	98.30	106.444	2.0271	
0.00	98.30	129.864	2.1135	
0.00	98.30	158.436	2.1999	
1.15	99.43	193.295	2.2862	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = U Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	4.122	-	3.562	55.00
		+	4.772	
2	12.215	-	9.137	30.00
		+	16.330	
3	26.017	-	22.006	11.00
		+	30.757	
4	63.239	-	30.581	4.00
		+	130.771	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	3.077	5.523
2	6.835	21.831
3	18.614	36.362
4	14.789	270.419

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = La Unit = (ppm) N = 87

Mean =	11.580	Min =	2.000	1st Quartile =	7.000
Std. Dev. =	5.557	Max =	27.000	Median =	11.000
CV % =	47.988	Skewness =	0.487	3rd Quartile =	16.000

%	cum %	cls int	(# of bins = 20 - bin size = 1.316)
0.00	0.57	1.342	
1.15	1.70	2.658	*
2.30	3.98	3.974	**
11.49	15.34	5.289	**********
4.60	19.89	6.605	****
8.05	27.84	7.921	*******
14.94	42.61	9.237	**********
3.45	46.02	10.553	***
6.90	52.84	11.868	******
14.94	67.61	13.184	**********
1.15	68.75	14.500	*
3.45	72.16	15.816	***
9.20	81.25	17.132	********
8.05	89.20	18.447	*******
1.15	90.34	19.763	*
4.60	94.89	21.079	****
1.15	96.02	22.395	*
1.15	97.16	23.711	*
1.15	98.30	25.026	*
0.00	98.30	26.342	
1.15	99.43	27.658	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = La Unit = (ppm) N = 87

Mean =	1.0077	Min =	0.3010	1st Quartile =	0.8451
Std. Dev. =	0.2339	Max =	1.4314	Median =	1.0414
CV % =	23.2096	Skewness =	-0.5587	3rd Quartile =	1.2041

Anti-Log Mean = 10.179 Anti-Log Std. Dev. : (-) 5.940
(+) 17.441

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0595)
0.00	0.57	1.868	0.2713	
1.15	1.70	2.142	0.3308	*
0.00	1.70	2.456	0.3903	
0.00	1.70	2.817	0.4498	
2.30	3.98	3.230	0.5092	**
0.00	3.98	3.705	0.5687	
3.45	7.39	4.248	0.6282	***
1.15	8.52	4.872	0.6877	*
6.90	15.34	5.587	0.7472	******
4.60	19.89	6.408	0.8067	****
8.05	27.84	7.348	0.8662	*******
6.90	34.66	8.427	0.9257	******
8.05	42.61	9.664	0.9852	*******
10.34	52.84	11.083	1.0447	*********
9.20	61.93	12.710	1.1042	********
6.90	68.75	14.576	1.1637	******
11.49	80.11	16.716	1.2231	**********
10.34	90.34	19.171	1.2826	*********
4.60	94.89	21.985	1.3421	****
3.45	98.30	25.213	1.4016	***
1.15	99.43	28.914	1.4611	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = La Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	3.394	-	2.565	8.00
		+	4.491	
2	8.561	-	6.237	59.00
		+	11.752	
3	17.176	-	14.206	33.00
		+	20.767	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	1.938	5.942
2	4.544	16.132
3	11.750	25.108

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Th Unit = (ppm) N = 87

Mean =	6.098	Min =	1.000	1st Quartile =	2.000
Std. Dev. =	7.145	Max =	35.000	Median =	3.000
CV % =	117.176	Skewness =	2.137	3rd Quartile =	7.000

%	cum %	cls int	(# of bins = 20 - bin size = 1.789)
0.00	0.57	0.105	
20.69	21.02	1.895	******************
31.03	51.70	3.684	*****************************
14.94	66.48	5.474	************
12.64	78.98	7.263	**********
3.45	82.39	9.053	***
0.00	82.39	10.842	
1.15	83.52	12.632	*
3.45	86.93	14.421	***
2.30	89.20	16.211	**
1.15	90.34	18.000	*
3.45	93.75	19.789	***
0.00	93.75	21.579	
1.15	94.89	23.368	*
1.15	96.02	25.158	*
0.00	96.02	26.947	
1.15	97.16	28.737	*
0.00	97.16	30.526	
1.15	98.30	32.316	*
0.00	98.30	34.105	
1.15	99.43	35.895	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Th Unit = (ppm) N = 87

Mean =	0.5627	Min =	0.0000	1st Quartile =	0.3010
Std. Dev. =	0.4298	Max =	1.5441	Median =	0.4771
CV % =	76.3952	Skewness =	0.4063	3rd Quartile =	0.8451

Anti-Log Mean = 3.653 Anti-Log Std. Dev. : (-) 1.358
(+) 9.829

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0813)
0.00	0.57	0.911	-0.0406	
20.69	21.02	1.098	0.0406	******************
0.00	21.02	1.324	0.1219	
0.00	21.02	1.596	0.2032	
0.00	21.02	1.925	0.2844	
19.54	40.34	2.321	0.3657	******************
0.00	40.34	2.799	0.4470	
10.34	50.57	3.375	0.5282	*********
10.34	60.80	4.069	0.6095	*********
0.00	60.80	4.906	0.6908	
5.75	66.48	5.916	0.7720	*****
12.64	78.98	7.133	0.8533	***********
2.30	81.25	8.601	0.9346	**
1.15	82.39	10.371	1.0158	*
1.15	83.52	12.505	1.0971	*
4.60	88.07	15.079	1.1784	****
3.45	91.48	18.182	1.2596	***
2.30	93.75	21.923	1.3409	**
2.30	96.02	26.434	1.4222	**
2.30	98.30	31.874	1.5034	**
1.15	99.43	38.433	1.5847	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Th Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.900	-	1.128	60.00
		+	3.201	
2	5.211	-	4.178	15.00
		+	6.499	
3	7.272	-	6.813	5.00
		+	7.762	
4	11.434	-	8.797	10.00
		+	14.862	
5	22.235	-	16.968	10.00
		+	29.136	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.669	5.392
2	3.350	8.106
3	6.384	8.284
4	6.768	19.317
5	12.949	38.180

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = As Unit = (ppm) N = 87

Mean =	11.897	Min =	1.000	1st Quartile =	2.000
Std. Dev. =	19.161	Max =	112.000	Median =	5.500
CV % =	161.067	Skewness =	3.278	3rd Quartile =	11.750

%	cum %	cls int	(# of bins = 20 - bin size = 5.842)
0.00	0.57	-1.921	
35.63	35.80	3.921	**********
35.63	71.02	9.763	**********
10.34	81.25	15.605	***
4.60	85.80	21.447	*
1.15	86.93	27.289	*
3.45	90.34	33.132	*
3.45	93.75	38.974	*
0.00	93.75	44.816	
0.00	93.75	50.658	
1.15	94.89	56.500	*
1.15	96.02	62.342	*
1.15	97.16	68.184	*
0.00	97.16	74.026	
0.00	97.16	79.868	
0.00	97.16	85.711	
0.00	97.16	91.553	
0.00	97.16	97.395	
1.15	98.30	103.237	*
0.00	98.30	109.079	
1.15	99.43	114.921	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = As Unit = (ppm) N = 87

Mean =	0.7285	Min =	0.0000	1st Quartile =	0.3010
Std. Dev. =	0.5428	Max =	2.0492	Median =	0.7386
CV % =	74.4978	Skewness =	0.2890	3rd Quartile =	1.0697

Anti-Log Mean = 5.352 Anti-Log Std. Dev. : (-) 1.534
(+) 18.677

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1079)
0.00	0.57	0.883	-0.0539	
21.84	22.16	1.132	0.0539	**********
0.00	22.16	1.451	0.1618	
1.15	23.30	1.861	0.2696	*
6.90	30.11	2.385	0.3775	******
4.60	34.66	3.057	0.4853	****
1.15	35.80	3.919	0.5932	*
13.79	49.43	5.024	0.7010	**********
3.45	52.84	6.440	0.8089	***
11.49	64.20	8.256	0.9168	**********
9.20	73.30	10.583	1.0246	********
6.90	80.11	13.566	1.1325	******
2.30	82.39	17.391	1.2403	**
3.45	85.80	22.293	1.3482	***
1.15	86.93	28.577	1.4560	*
5.75	92.61	36.633	1.5639	*****
1.15	93.75	46.960	1.6717	*
1.15	94.89	60.198	1.7796	*
2.30	97.16	77.168	1.8874	**
1.15	98.30	98.922	1.9953	*
1.15	99.43	126.807	2.1031	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = As Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.348	-	0.883	33.00
		+	2.059	
2	5.582	-	3.892	37.00
		+	8.007	
3	10.330	-	8.961	10.00
		+	11.908	
4	22.559	-	15.869	13.00
		+	32.070	
5	60.532	-	39.127	7.00
		+	93.646	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.578	3.144
2	2.714	11.484
3	7.774	13.727
4	11.163	45.590
5	25.291	144.876

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Sb Unit = (ppm) N = 87

Mean =	2.989	Min =	1.500	1st Quartile =	1.500
Std. Dev. =	1.972	Max =	10.000	Median =	1.500
CV % =	65.979	Skewness =	1.372	3rd Quartile =	4.000

%	cum %	cls int	(# of bins = 20 - bin size = 0.447)
0.00	0.57	1.276	
51.72	51.70	1.724	********** --> 45
0.00	51.70	2.171	
0.00	51.70	2.618	
16.09	67.61	3.066	**********
0.00	67.61	3.513	
0.00	67.61	3.961	
13.79	81.25	4.408	**********
0.00	81.25	4.855	
4.60	85.80	5.303	****
0.00	85.80	5.750	
8.05	93.75	6.197	*******
0.00	93.75	6.645	
2.30	96.02	7.092	**
0.00	96.02	7.539	
0.00	96.02	7.987	
1.15	97.16	8.434	*
0.00	97.16	8.882	
1.15	98.30	9.329	*
0.00	98.30	9.776	
1.15	99.43	10.224	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Sb Unit = (ppm) N = 87

Mean =	0.3971	Min =	0.1761	1st Quartile =	0.1761
Std. Dev. =	0.2528	Max =	1.0000	Median =	0.1761
CV % =	63.6618	Skewness =	0.5929	3rd Quartile =	0.6021

Anti-Log Mean = 2.495 Anti-Log Std. Dev. : (-) 1.394
(+) 4.465

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0434)
0.00	0.57	1.427	0.1544	
51.72	51.70	1.577	0.1978	********** --> 45
0.00	51.70	1.742	0.2411	
0.00	51.70	1.925	0.2845	
0.00	51.70	2.127	0.3279	
0.00	51.70	2.351	0.3712	
0.00	51.70	2.598	0.4146	
2.30	53.98	2.870	0.4580	**
13.79	67.61	3.172	0.5013	**********
0.00	67.61	3.505	0.5447	
0.00	67.61	3.873	0.5880	
13.79	81.25	4.280	0.6314	**********
0.00	81.25	4.729	0.6748	
4.60	85.80	5.226	0.7181	****
0.00	85.80	5.774	0.7615	
8.05	93.75	6.381	0.8049	*******
2.30	96.02	7.051	0.8482	**
0.00	96.02	7.791	0.8916	
1.15	97.16	8.609	0.9350	*
1.15	98.30	9.513	0.9783	*
1.15	99.43	10.512	1.0217	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Sb Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	2.025	-	1.346	75.00
		+	3.045	
2	4.229	-	3.828	10.00
		+	4.673	
3	5.809	-	5.163	10.00
		+	6.536	
4	7.319	-	6.776	3.00
		+	7.905	
5	8.963	-	8.016	2.00
		+	10.021	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.895	4.579
2	3.464	5.164
3	4.588	7.354
4	6.273	8.539
5	7.169	11.205

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Sr Unit = (ppm) N = 87

Mean =	32.040	Min =	3.000	1st Quartile =	19.000
Std. Dev. =	15.943	Max =	89.000	Median =	32.000
CV % =	49.759	Skewness =	0.825	3rd Quartile =	40.750

%	cum %	cls int	(# of bins = 20 - bin size = 4.526)
0.00	0.57	0.737	
1.15	1.70	5.263	*
2.30	3.98	9.789	**
10.34	14.20	14.316	*********
9.20	23.30	18.842	********
11.49	34.66	23.368	**********
6.90	41.48	27.895	******
10.34	51.70	32.421	*********
16.09	67.61	36.947	**********
8.05	75.57	41.474	*******
4.60	80.11	46.000	****
8.05	88.07	50.526	*******
3.45	91.48	55.053	***
2.30	93.75	59.579	**
3.45	97.16	64.105	***
0.00	97.16	68.632	
0.00	97.16	73.158	
1.15	98.30	77.684	*
0.00	98.30	82.211	
0.00	98.30	86.737	
1.15	99.43	91.263	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Sr Unit = (ppm) N = 87

Mean =	1.4463	Min =	0.4771	1st Quartile =	1.2788
Std. Dev. =	0.2446	Max =	1.9494	Median =	1.5051
CV % =	16.9103	Skewness =	-0.8508	3rd Quartile =	1.6101

Anti-Log Mean = 27.946 Anti-Log Std. Dev. : (-) 15.912
(+) 49.078

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0775)
0.00	0.57	2.744	0.4384	
1.15	1.70	3.280	0.5159	*
0.00	1.70	3.921	0.5934	
0.00	1.70	4.686	0.6708	
0.00	1.70	5.602	0.7483	
0.00	1.70	6.696	0.8258	
0.00	1.70	8.004	0.9033	
2.30	3.98	9.567	0.9808	**
2.30	6.25	11.436	1.0583	**
5.75	11.93	13.670	1.1358	*****
5.75	17.61	16.340	1.2133	*****
9.20	26.70	19.532	1.2907	********
8.05	34.66	23.347	1.3682	*******
6.90	41.48	27.907	1.4457	******
16.09	57.39	33.359	1.5232	**********
16.09	73.30	39.874	1.6007	**********
11.49	84.66	47.663	1.6782	**********
8.05	92.61	56.973	1.7557	*******
4.60	97.16	68.102	1.8332	****
1.15	98.30	81.404	1.9106	*
1.15	99.43	97.305	1.9881	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Sr Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	6.240	-	3.309	4.00
		+	11.767	
2	14.300	-	11.244	21.00
		+	18.187	
3	23.445	-	20.248	20.00
		+	27.148	
4	39.226	-	31.697	50.00
		+	48.543	
5	69.371	-	58.538	5.00
		+	82.209	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	1.755	22.189
2	8.841	23.131
3	17.486	31.436
4	25.614	60.073
5	49.396	97.423

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Bi Unit = (ppm) N = 87

Mean =	1.828	Min =	1.500	1st Quartile =	1.500
Std. Dev. =	0.750	Max =	4.000	Median =	1.500
CV % =	41.054	Skewness =	2.023	3rd Quartile =	1.500

%	cum %	cls int	(# of bins = 20 - bin size = 0.132)
0.00	0.57	1.434	
82.76	82.39	1.566	********** --> 72
0.00	82.39	1.697	
0.00	82.39	1.829	
0.00	82.39	1.961	
0.00	82.39	2.092	
0.00	82.39	2.224	
0.00	82.39	2.355	
0.00	82.39	2.487	
0.00	82.39	2.618	
0.00	82.39	2.750	
0.00	82.39	2.882	
10.34	92.61	3.013	*********
0.00	92.61	3.145	
0.00	92.61	3.276	
0.00	92.61	3.408	
0.00	92.61	3.539	
0.00	92.61	3.671	
0.00	92.61	3.803	
0.00	92.61	3.934	
6.90	99.43	4.066	******

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Bi Unit = (ppm) N = 87

Mean =	0.2366	Min =	0.1761	1st Quartile =	0.1761
Std. Dev. =	0.1358	Max =	0.6021	Median =	0.1761
CV % =	57.3879	Skewness =	1.8676	3rd Quartile =	0.1761

Anti-Log Mean = 1.724 Anti-Log Std. Dev. : (-) 1.261
(+) 2.357

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0224)
0.00	0.57	1.462	0.1649	
82.76	82.39	1.539	0.1873	********** --> 72
0.00	82.39	1.621	0.2097	
0.00	82.39	1.707	0.2321	
0.00	82.39	1.797	0.2546	
0.00	82.39	1.892	0.2770	
0.00	82.39	1.992	0.2994	
0.00	82.39	2.098	0.3218	
0.00	82.39	2.209	0.3442	
0.00	82.39	2.326	0.3667	
0.00	82.39	2.449	0.3891	
0.00	82.39	2.579	0.4115	
0.00	82.39	2.716	0.4339	
0.00	82.39	2.860	0.4563	
10.34	92.61	3.011	0.4788	*********
0.00	92.61	3.171	0.5012	
0.00	92.61	3.339	0.5236	
0.00	92.61	3.516	0.5460	
0.00	92.61	3.702	0.5684	
0.00	92.61	3.898	0.5909	
6.90	99.43	4.105	0.6133	******

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Bi Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.500	-	1.483	80.00
		+	1.517	
2	1.620	-	1.301	10.00
		+	2.017	
3	3.366	-	2.909	10.00
		+	3.895	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	1.466	1.535
2	1.045	2.511
3	2.514	4.506

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = W Unit = (ppm) N = 87

Mean =	1.612	Min =	1.000	1st Quartile =	1.000
Std. Dev. =	1.616	Max =	13.000	Median =	1.000
CV % =	100.218	Skewness =	4.812	3rd Quartile =	2.000

%	cum %	cls int	(# of bins = 20 - bin size = 0.632)
0.00	0.57	0.684	
71.26	71.02	1.316	********** --> 62
2.30	73.30	1.947	**
14.94	88.07	2.579	**********
5.75	93.75	3.211	*****
0.00	93.75	3.842	
2.30	96.02	4.474	**
0.00	96.02	5.105	
0.00	96.02	5.737	
1.15	97.16	6.368	*
0.00	97.16	7.000	
1.15	98.30	7.632	*
0.00	98.30	8.263	
0.00	98.30	8.895	
0.00	98.30	9.526	
0.00	98.30	10.158	
0.00	98.30	10.789	
0.00	98.30	11.421	
0.00	98.30	12.053	
0.00	98.30	12.684	
1.15	99.43	13.316	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = W Unit = (ppm) N = 87

Mean =	0.1223	Min =	0.0000	1st Quartile =	0.0000
Std. Dev. =	0.2261	Max =	1.1139	Median =	0.0000
CV % =	184.7835	Skewness =	2.0593	3rd Quartile =	0.3010

Anti-Log Mean = 1.325 Anti-Log Std. Dev. : (-) 0.788
(+) 2.231

(# of bins = 20 - bin size = 0.0586)

%	cum %	antilog	cls int	
0.00	0.57	0.935	-0.0293	
71.26	71.02	1.070	0.0293	********** --> 62
0.00	71.02	1.224	0.0879	
0.00	71.02	1.401	0.1466	
2.30	73.30	1.604	0.2052	**
0.00	73.30	1.836	0.2638	
13.79	86.93	2.101	0.3225	**********
1.15	88.07	2.405	0.3811	*
0.00	88.07	2.752	0.4397	
5.75	93.75	3.150	0.4983	*****
0.00	93.75	3.606	0.5570	
2.30	96.02	4.127	0.6156	**
0.00	96.02	4.723	0.6742	
0.00	96.02	5.406	0.7329	
1.15	97.16	6.187	0.7915	*
1.15	98.30	7.081	0.8501	*
0.00	98.30	8.105	0.9087	
0.00	98.30	9.276	0.9674	
0.00	98.30	10.617	1.0260	
0.00	98.30	12.151	1.0846	
1.15	99.43	13.908	1.1433	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = W Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.128	-	0.871	75.00
		+	1.460	
2	2.000	-	1.977	10.00
		+	2.023	
3	2.386	-	1.861	10.00
		+	3.059	
4	6.141	-	3.775	5.00
		+	9.992	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.673	1.890
2	1.954	2.047
3	1.452	3.922
4	2.320	16.257

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Ti		Unit = (%)		N =	87
Mean =	0.127	Min =	0.010	1st Quartile =	0.080
Std. Dev. =	0.059	Max =	0.380	Median =	0.120
CV % =	46.688	Skewness =	0.890	3rd Quartile =	0.170

%	cum %	cls int	(# of bins = 20 - bin size = 0.019)
0.00	0.57	0.000	
1.15	1.70	0.020	*
2.30	3.98	0.039	**
5.75	9.66	0.059	*****
10.34	19.89	0.078	*********
13.79	33.52	0.098	************
12.64	46.02	0.117	**********
11.49	57.39	0.137	**********
11.49	68.75	0.156	**********
11.49	80.11	0.176	**********
11.49	91.48	0.195	**********
4.60	96.02	0.214	****
0.00	96.02	0.234	
1.15	97.16	0.253	*
1.15	98.30	0.273	*
0.00	98.30	0.292	
0.00	98.30	0.312	
0.00	98.30	0.331	
0.00	98.30	0.351	
0.00	98.30	0.370	
1.15	99.43	0.390	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Ti Unit = (%) N = 87

Mean =	-0.9513	Min =	-2.0000	1st Quartile =	-1.0969
Std. Dev. =	0.2406	Max =	-0.4202	Median =	-0.9208
CV % =	25.2907	Skewness =	-1.2410	3rd Quartile =	-0.7696

Anti-Log Mean = 0.112 Anti-Log Std. Dev. : (-) 0.064
(+) 0.195

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0831)
0.00	0.57	0.009	-2.0416	
1.15	1.70	0.011	-1.9584	*
0.00	1.70	0.013	-1.8753	
0.00	1.70	0.016	-1.7921	
0.00	1.70	0.020	-1.7090	
0.00	1.70	0.024	-1.6258	
0.00	1.70	0.029	-1.5427	
2.30	3.98	0.035	-1.4595	**
2.30	6.25	0.042	-1.3764	**
3.45	9.66	0.051	-1.2933	***
4.60	14.20	0.062	-1.2101	****
5.75	19.89	0.075	-1.1270	*****
13.79	33.52	0.090	-1.0438	**********
4.60	38.07	0.109	-0.9607	****
19.54	57.39	0.133	-0.8775	**********
13.79	71.02	0.161	-0.7944	**********
20.69	91.48	0.194	-0.7112	**********
4.60	96.02	0.235	-0.6281	****
2.30	98.30	0.285	-0.5449	**
0.00	98.30	0.345	-0.4618	
1.15	99.43	0.418	-0.3786	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Ti Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.027	-	0.015	6.00
		+	0.048	
2	0.064	-	0.051	17.00
		+	0.080	
3	0.088	-	0.081	11.00
		+	0.097	
4	0.152	-	0.116	66.00
		+	0.198	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.009	0.085
2	0.040	0.100
3	0.074	0.106
4	0.089	0.259

##

##
SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Ba		Unit = (ppm)		N =	87
Mean =	88.678	Min =	18.000	1st Quartile =	43.250
Std. Dev. =	56.444	Max =	285.000	Median =	67.500
CV % =	63.650	Skewness =	0.892	3rd Quartile =	135.750

%	cum %	cls int	(# of bins = 20 - bin size = 14.053)
0.00	0.57	10.974	
4.60	5.11	25.026	****
16.09	21.02	39.079	**********
14.94	35.80	53.132	**********
13.79	49.43	67.184	**********
9.20	58.52	81.237	********
4.60	63.07	95.289	****
3.45	66.48	109.342	***
1.15	67.61	123.395	*
8.05	75.57	137.447	*******
6.90	82.39	151.500	******
5.75	88.07	165.553	*****
6.90	94.89	179.605	******
1.15	96.02	193.658	*
1.15	97.16	207.711	*
0.00	97.16	221.763	
1.15	98.30	235.816	*
0.00	98.30	249.868	
0.00	98.30	263.921	
0.00	98.30	277.974	
1.15	99.43	292.026	*

0 1 2 3 4

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Ba Unit = (ppm) N = 87

Mean =	1.8578	Min =	1.2553	1st Quartile =	1.6360
Std. Dev. =	0.2887	Max =	2.4548	Median =	1.8293
CV % =	15.5384	Skewness =	-0.0925	3rd Quartile =	2.1327

Anti-Log Mean = 72.081 Anti-Log Std. Dev. : (-) 37.080
(+) 140.118

(# of bins = 20 - bin size = 0.0631)

%	cum %	antilog	cls int	
0.00	0.57	16.738	1.2237	
3.45	3.98	19.357	1.2868	***
1.15	5.11	22.386	1.3500	*
0.00	5.11	25.889	1.4131	
4.60	9.66	29.940	1.4762	****
3.45	13.07	34.624	1.5394	***
9.20	22.16	40.042	1.6025	********
6.90	28.98	46.308	1.6657	******
6.90	35.80	53.554	1.7288	******
4.60	40.34	61.933	1.7919	****
13.79	53.98	71.624	1.8551	**********
5.75	59.66	82.831	1.9182	*****
3.45	63.07	95.792	1.9813	***
3.45	66.48	110.781	2.0445	***
4.60	71.02	128.115	2.1076	****
10.34	81.25	148.162	2.1707	*********
11.49	92.61	171.345	2.2339	**********
3.45	96.02	198.156	2.2970	***
2.30	98.30	229.162	2.3601	**
0.00	98.30	265.019	2.4233	
1.15	99.43	306.487	2.4864	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Ba Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	22.031	-	18.301	8.00
		+	26.522	
2	37.474	-	32.067	22.00
		+	43.794	
3	58.084	-	50.609	20.00
		+	66.662	
4	88.821	-	70.993	20.00
		+	111.126	
5	158.953	-	132.820	30.00
		+	190.228	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	15.202	31.929
2	27.439	51.179
3	44.096	76.508
4	56.743	139.032
5	110.983	227.657

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = B Unit = (ppm) N = 87

Mean =	1.960	Min =	1.500	1st Quartile =	1.500
Std. Dev. =	1.948	Max =	18.000	Median =	1.500
CV % =	99.383	Skewness =	6.814	3rd Quartile =	1.500

%	cum %	cls int	(# of bins = 20 - bin size = 0.868)
0.00	0.57	1.066	
86.21	85.80	1.934	********** --> 75
2.30	88.07	2.803	**
6.90	94.89	3.671	******
1.15	96.02	4.539	*
0.00	96.02	5.408	
1.15	97.16	6.276	*
1.15	98.30	7.145	*
0.00	98.30	8.013	
0.00	98.30	8.882	
0.00	98.30	9.750	
0.00	98.30	10.618	
0.00	98.30	11.487	
0.00	98.30	12.355	
0.00	98.30	13.224	
0.00	98.30	14.092	
0.00	98.30	14.961	
0.00	98.30	15.829	
0.00	98.30	16.697	
0.00	98.30	17.566	
1.15	99.43	18.434	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = B Unit = (ppm) N = 87

Mean =	0.2338	Min =	0.1761	1st Quartile =	0.1761
Std. Dev. =	0.1708	Max =	1.2553	Median =	0.1761
CV % =	73.0710	Skewness =	3.7021	3rd Quartile =	0.1761

Anti-Log Mean = 1.713 Anti-Log Std. Dev. : (-) 1.156
(+) 2.539

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0568)
0.00	0.57	1.405	0.1477	
86.21	85.80	1.601	0.2045	********** --> 75
0.00	85.80	1.825	0.2613	
0.00	85.80	2.080	0.3181	
1.15	86.93	2.371	0.3749	*
0.00	86.93	2.702	0.4317	
8.05	94.89	3.080	0.4885	*******
0.00	94.89	3.510	0.5453	
1.15	96.02	4.000	0.6021	*
0.00	96.02	4.559	0.6589	
0.00	96.02	5.196	0.7157	
0.00	96.02	5.922	0.7725	
1.15	97.16	6.750	0.8293	*
1.15	98.30	7.693	0.8861	*
0.00	98.30	8.768	0.9429	
0.00	98.30	9.993	0.9997	
0.00	98.30	11.389	1.0565	
0.00	98.30	12.980	1.1133	
0.00	98.30	14.794	1.1701	
0.00	98.30	16.861	1.2269	
1.15	99.43	19.216	1.2837	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = B Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.508	-	1.439	87.00
		+	1.580	
2	2.863	-	2.585	7.00
		+	3.170	
3	3.126	-	2.804	2.00
		+	3.485	
4	7.416	-	3.924	4.00
		+	14.015	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	1.374	1.655
2	2.335	3.510
3	2.515	3.885
4	2.076	26.488

##

##
SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = P Unit = (%) N = 87

Mean =	0.087	Min =	0.020	1st Quartile =	0.060
Std. Dev. =	0.029	Max =	0.160	Median =	0.080
CV % =	33.344	Skewness =	0.448	3rd Quartile =	0.110

(# of bins = 20 - bin size = 0.007)

%	cum %	cls int	
0.00	0.57	0.016	
1.15	1.70	0.024	*
0.00	1.70	0.031	
0.00	1.70	0.038	
1.15	2.84	0.046	*
10.34	13.07	0.053	*********
12.64	25.57	0.061	**********
0.00	25.57	0.068	
11.49	36.93	0.075	**********
16.09	52.84	0.083	**********
0.00	52.84	0.090	
12.64	65.34	0.097	**********
6.90	72.16	0.105	******
11.49	83.52	0.112	**********
0.00	83.52	0.119	
4.60	88.07	0.127	****
3.45	91.48	0.134	***
3.45	94.89	0.142	***
0.00	94.89	0.149	
3.45	98.30	0.156	***
1.15	99.43	0.164	*

0 1 2 3 4

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = P Unit = (%) N = 87

Mean =	-1.0852	Min =	-1.6990	1st Quartile =	-1.2218
Std. Dev. =	0.1543	Max =	-0.7959	Median =	-1.0969
CV % =	14.2158	Skewness =	-0.6422	3rd Quartile =	-0.9586

Anti-Log Mean = 0.082 Anti-Log Std. Dev. : (-) 0.058
(+) 0.117

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0475)
0.00	0.57	0.019	-1.7227	
1.15	1.70	0.021	-1.6752	*
0.00	1.70	0.024	-1.6277	
0.00	1.70	0.026	-1.5801	
0.00	1.70	0.029	-1.5326	
0.00	1.70	0.033	-1.4851	
0.00	1.70	0.037	-1.4375	
1.15	2.84	0.041	-1.3900	*
0.00	2.84	0.045	-1.3425	
10.34	13.07	0.051	-1.2950	*********
0.00	13.07	0.057	-1.2474	
12.64	25.57	0.063	-1.1999	**********
11.49	36.93	0.070	-1.1524	**********
0.00	36.93	0.079	-1.1048	
16.09	52.84	0.088	-1.0573	**********
12.64	65.34	0.098	-1.0098	**********
6.90	72.16	0.109	-0.9622	******
16.09	88.07	0.122	-0.9147	**********
3.45	91.48	0.136	-0.8672	***
6.90	98.30	0.151	-0.8196	******
1.15	99.43	0.169	-0.7721	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = P Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.028	-	0.017	2.00
		+	0.046	
2	0.072	-	0.057	70.00
		+	0.090	
3	0.109	-	0.102	13.00
		+	0.116	
4	0.135	-	0.122	15.00
		+	0.149	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.011	0.075
2	0.045	0.114
3	0.095	0.124
4	0.111	0.164

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Al Unit = (%) N = 87

Mean =	1.780	Min =	0.320	1st Quartile =	1.190
Std. Dev. =	0.797	Max =	4.750	Median =	1.665
CV % =	44.773	Skewness =	0.812	3rd Quartile =	2.340

%	cum %	cls int	(# of bins = 20 - bin size = 0.233)
0.00	0.57	0.203	
1.15	1.70	0.437	*
1.15	2.84	0.670	*
10.34	13.07	0.903	*********
9.20	22.16	1.136	********
12.64	34.66	1.369	**********
11.49	46.02	1.602	**********
16.09	61.93	1.836	**********
5.75	67.61	2.069	*****
4.60	72.16	2.302	****
4.60	76.70	2.535	****
11.49	88.07	2.768	**********
6.90	94.89	3.001	******
2.30	97.16	3.234	**
0.00	97.16	3.468	
0.00	97.16	3.701	
1.15	98.30	3.934	*
0.00	98.30	4.167	
0.00	98.30	4.400	
0.00	98.30	4.633	
1.15	99.43	4.867	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Al Unit = (%) N = 87

Mean =	0.2052	Min =	-0.4949	1st Quartile =	0.0755
Std. Dev. =	0.2073	Max =	0.6767	Median =	0.2214
CV % =	101.0372	Skewness =	-0.5035	3rd Quartile =	0.3692

Anti-Log Mean = 1.604 Anti-Log Std. Dev. : (-) 0.995
(+) 2.585

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0617)
0.00	0.57	0.298	-0.5257	
1.15	1.70	0.344	-0.4640	*
0.00	1.70	0.396	-0.4024	
0.00	1.70	0.456	-0.3407	
0.00	1.70	0.526	-0.2790	
1.15	2.84	0.606	-0.2174	*
3.45	6.25	0.699	-0.1557	***
1.15	7.39	0.805	-0.0941	*
6.90	14.20	0.928	-0.0324	******
8.05	22.16	1.070	0.0293	*******
6.90	28.98	1.233	0.0909	******
5.75	34.66	1.421	0.1526	*****
13.79	48.30	1.638	0.2142	**********
16.09	64.20	1.888	0.2759	**********
5.75	69.89	2.176	0.3376	*****
6.90	76.70	2.507	0.3992	******
18.39	94.89	2.890	0.4609	**********
2.30	97.16	3.331	0.5225	**
0.00	97.16	3.839	0.5842	
1.15	98.30	4.424	0.6459	*
1.15	99.43	5.099	0.7075	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Al Unit = (%) N = 87
N CI = 20

Transform = Arithmetic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean	Std Dev	Percentage
1	0.527	0.183	3.00
2	1.024	0.213	32.00
3	1.772	0.276	40.00
4	2.652	0.153	20.00
5	3.564	0.774	5.00

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.160	0.893
2	0.598	1.451
3	1.220	2.324
4	2.345	2.958
5	2.017	5.111

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Mn Unit = (ppm) N = 87

Mean =	1082.230	Min =	126.000	1st Quartile =	410.500
Std. Dev. =	1497.370	Max =	9249.000	Median =	603.500
CV % =	138.360	Skewness =	3.841	3rd Quartile =	1024.250

%	cum %	cls int	(# of bins = 20 - bin size = 480.158)
0.00	0.57	-114.079	
17.24	17.61	366.079	**********
47.13	64.20	846.237	********** --> 41
19.54	83.52	1326.395	**********
3.45	86.93	1806.553	***
1.15	88.07	2286.711	*
3.45	91.48	2766.868	***
2.30	93.75	3247.026	**
1.15	94.89	3727.184	*
1.15	96.02	4207.342	*
0.00	96.02	4687.500	
1.15	97.16	5167.658	*
0.00	97.16	5647.816	
0.00	97.16	6127.974	
0.00	97.16	6608.132	
0.00	97.16	7088.289	
0.00	97.16	7568.447	
0.00	97.16	8048.605	
0.00	97.16	8528.763	
1.15	98.30	9008.921	*
1.15	99.43	9489.079	*

0 1 2 3 4

##
SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Mn Unit = (ppm) N = 87

Mean =	2.8469	Min =	2.1004	1st Quartile =	2.6133
Std. Dev. =	0.3598	Max =	3.9661	Median =	2.7807
CV % =	12.6396	Skewness =	0.8527	3rd Quartile =	3.0104

Anti-Log Mean = 702.900 Anti-Log Std. Dev. : (-) 306.944
(+) 1609.640

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0982)
0.00	0.57	112.531	2.0513	
2.30	2.84	141.081	2.1495	**
1.15	3.98	176.874	2.2477	*
1.15	5.11	221.748	2.3459	*
3.45	8.52	278.008	2.4441	***
5.75	14.20	348.540	2.5423	*****
16.09	30.11	436.967	2.6404	**********
10.34	40.34	547.829	2.7386	*********
18.39	58.52	686.816	2.8368	**********
5.75	64.20	861.066	2.9350	*****
14.94	78.98	1079.525	3.0332	**********
4.60	83.52	1353.408	3.1314	****
3.45	86.93	1696.777	3.2296	***
1.15	88.07	2127.261	3.3278	*
2.30	90.34	2666.961	3.4260	**
3.45	93.75	3343.588	3.5242	***
2.30	96.02	4191.879	3.6224	**
1.15	97.16	5255.388	3.7206	*
0.00	97.16	6588.716	3.8188	
0.00	97.16	8260.318	3.9170	
2.30	99.43	10356.018	4.0152	**

0 1 2 3 4

##

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Mn Unit = (ppm) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 5

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	191.889	-	136.790	8.00
		+	269.182	
2	461.487	-	354.767	52.00
		+	600.309	
3	943.192	-	791.910	24.00
		+	1123.375	
4	1850.101	-	1391.410	8.00
		+	2460.004	
5	4374.510	-	2698.184	8.00
		+	7092.301	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	97.512	377.609
2	272.727	780.890
3	664.893	1337.978
4	1046.441	3270.967
5	1664.232	11498.600

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Fe Unit = (%) N = 87

Mean =	3.893	Min =	0.430	1st Quartile =	2.775
Std. Dev. =	2.016	Max =	15.060	Median =	3.575
CV % =	51.777	Skewness =	2.671	3rd Quartile =	4.495

%	cum %	cls int	(# of bins = 20 - bin size = 0.770)
0.00	0.57	0.045	
1.15	1.70	0.815	*
3.45	5.11	1.585	***
9.20	14.20	2.355	********
22.99	36.93	3.125	**********
18.39	55.11	3.895	**********
20.69	75.57	4.665	**********
13.79	89.20	5.435	**********
3.45	92.61	6.205	***
2.30	94.89	6.975	**
1.15	96.02	7.745	*
1.15	97.16	8.515	*
0.00	97.16	9.285	
0.00	97.16	10.055	
0.00	97.16	10.825	
0.00	97.16	11.595	
1.15	98.30	12.365	*
0.00	98.30	13.135	
0.00	98.30	13.905	
0.00	98.30	14.675	
1.15	99.43	15.445	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Fe Unit = (%) N = 87

Mean =	0.5427	Min =	-0.3665	1st Quartile =	0.4433
Std. Dev. =	0.2103	Max =	1.1778	Median =	0.5533
CV % =	38.7473	Skewness =	-0.7435	3rd Quartile =	0.6527

Anti-Log Mean = 3.489 Anti-Log Std. Dev. : (-) 2.150
(+) 5.663

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0813)
0.00	0.57	0.392	-0.4072	
1.15	1.70	0.472	-0.3259	*
0.00	1.70	0.569	-0.2446	
0.00	1.70	0.687	-0.1633	
0.00	1.70	0.828	-0.0820	
1.15	2.84	0.998	-0.0008	*
0.00	2.84	1.204	0.0805	
1.15	3.98	1.451	0.1618	*
4.60	8.52	1.750	0.2431	****
2.30	10.80	2.110	0.3244	**
8.05	18.75	2.545	0.4056	*******
16.09	34.66	3.069	0.4869	**********
17.24	51.70	3.700	0.5682	**********
22.99	74.43	4.462	0.6495	**********
14.94	89.20	5.380	0.7308	**********
4.60	93.75	6.487	0.8121	****
2.30	96.02	7.822	0.8933	**
1.15	97.16	9.432	0.9746	*
0.00	97.16	11.374	1.0559	
1.15	98.30	13.715	1.1372	*
1.15	99.43	16.537	1.2185	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Fe Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.614	-	1.005	15.00
		+	2.593	
2	3.763	-	2.913	80.00
		+	4.860	
3	9.409	-	6.755	5.00
		+	13.107	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.625	4.165
2	2.255	6.277
3	4.849	18.257

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = K Unit = (%) N = 87

Mean =	0.205	Min =	0.020	1st Quartile =	0.092
Std. Dev. =	0.144	Max =	0.750	Median =	0.160
CV % =	70.225	Skewness =	1.252	3rd Quartile =	0.290

%	cum %	cls int	(# of bins = 20 - bin size = 0.038)
0.00	0.57	0.001	
3.45	3.98	0.039	***
16.09	19.89	0.078	**********
10.34	30.11	0.116	*********
16.09	46.02	0.154	**********
12.64	58.52	0.193	**********
8.05	66.48	0.231	*******
4.60	71.02	0.270	****
6.90	77.84	0.308	******
8.05	85.80	0.347	*******
4.60	90.34	0.385	****
1.15	91.48	0.423	*
0.00	91.48	0.462	
2.30	93.75	0.500	**
2.30	96.02	0.539	**
2.30	98.30	0.577	**
0.00	98.30	0.616	
0.00	98.30	0.654	
0.00	98.30	0.692	
0.00	98.30	0.731	
1.15	99.43	0.769	*

0 1 2 3 4

##
SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = K Unit = (%) N = 87

Mean =	-0.7958	Min =	-1.6990	1st Quartile =	-1.0343
Std. Dev. =	0.3237	Max =	-0.1249	Median =	-0.7959
CV % =	40.6723	Skewness =	-0.3352	3rd Quartile =	-0.5376

Anti-Log Mean = 0.160 Anti-Log Std. Dev. : (-) 0.076
(+) 0.337

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0828)
0.00	0.57	0.018	-1.7404	
1.15	1.70	0.022	-1.6575	*
0.00	1.70	0.027	-1.5747	
2.30	3.98	0.032	-1.4919	**
0.00	3.98	0.039	-1.4090	
0.00	3.98	0.047	-1.3262	
3.45	7.39	0.057	-1.2433	***
6.90	14.20	0.069	-1.1605	******
8.05	22.16	0.084	-1.0776	*******
4.60	26.70	0.101	-0.9948	****
6.90	33.52	0.122	-0.9120	******
9.20	42.61	0.148	-0.8291	********
12.64	55.11	0.179	-0.7463	**********
8.05	63.07	0.217	-0.6634	*******
8.05	71.02	0.263	-0.5806	*******
8.05	78.98	0.318	-0.4977	*******
11.49	90.34	0.385	-0.4149	**********
1.15	91.48	0.466	-0.3320	*
6.90	98.30	0.563	-0.2492	******
0.00	98.30	0.682	-0.1664	
1.15	99.43	0.825	-0.0835	*

0 1 2 3 4

##

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = K Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.036	-	0.025	7.00
		+	0.053	
2	0.144	-	0.082	79.00
		+	0.254	
3	0.432	-	0.338	14.00
		+	0.550	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.017	0.078
2	0.047	0.447
3	0.265	0.702

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Na Unit = (%) N = 87

Mean =	-1.6243	Min =	-2.0000	1st Quartile =	-1.6990
Std. Dev. =	0.2668	Max =	-0.6576	Median =	-1.6990
CV % =	16.4275	Skewness =	0.5547	3rd Quartile =	-1.5229

Anti-Log Mean = 0.024 Anti-Log Std. Dev. : (-) 0.013
(+) 0.044

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0707)
0.00	0.57	0.009	-2.0353	
20.69	21.02	0.011	-1.9647	******************
0.00	21.02	0.013	-1.8940	
0.00	21.02	0.015	-1.8234	
0.00	21.02	0.018	-1.7527	
34.48	55.11	0.021	-1.6821	********************************
0.00	55.11	0.024	-1.6114	
0.00	55.11	0.029	-1.5408	
24.14	78.98	0.034	-1.4701	**********************
0.00	78.98	0.040	-1.3994	
6.90	85.80	0.047	-1.3288	******
4.60	90.34	0.055	-1.2581	****
3.45	93.75	0.065	-1.1875	***
2.30	96.02	0.076	-1.1168	**
1.15	97.16	0.090	-1.0462	*
1.15	98.30	0.106	-0.9755	*
0.00	98.30	0.124	-0.9049	
0.00	98.30	0.146	-0.8342	
0.00	98.30	0.172	-0.7636	
0.00	98.30	0.203	-0.6929	
1.15	99.43	0.239	-0.6223	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Na Unit = (%) N = 87

Mean =	0.029	Min =	0.010	1st Quartile =	0.020
Std. Dev. =	0.027	Max =	0.220	Median =	0.020
CV % =	90.117	Skewness =	4.601	3rd Quartile =	0.030

%	cum %	cls int	(# of bins = 20 - bin size = 0.011)
0.00	0.57	0.004	
20.69	21.02	0.016	******************
34.48	55.11	0.027	******************************
24.14	78.98	0.038	**********************
6.90	85.80	0.049	******
4.60	90.34	0.060	****
5.75	96.02	0.071	*****
1.15	97.16	0.082	*
1.15	98.30	0.093	*
0.00	98.30	0.104	
0.00	98.30	0.115	
0.00	98.30	0.126	
0.00	98.30	0.137	
0.00	98.30	0.148	
0.00	98.30	0.159	
0.00	98.30	0.170	
0.00	98.30	0.181	
0.00	98.30	0.192	
0.00	98.30	0.203	
0.00	98.30	0.214	
1.15	99.43	0.226	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Na Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 2

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.020	-	0.013	84.00
		+	0.031	
2	0.057	-	0.037	16.00
		+	0.087	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.008	0.049
2	0.024	0.134

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Ca Unit = (%) N = 87

Mean =	0.533	Min =	0.050	1st Quartile =	0.340
Std. Dev. =	0.291	Max =	1.550	Median =	0.495
CV % =	54.531	Skewness =	1.077	3rd Quartile =	0.670

%	cum %	cls int	(# of bins = 20 - bin size = 0.079)
0.00	0.57	0.011	
1.15	1.70	0.089	*
6.90	8.52	0.168	******
5.75	14.20	0.247	*****
9.20	23.30	0.326	********
11.49	34.66	0.405	**********
12.64	47.16	0.484	**********
13.79	60.80	0.563	**********
10.34	71.02	0.642	*********
11.49	82.39	0.721	**********
5.75	88.07	0.800	*****
1.15	89.20	0.879	*
1.15	90.34	0.958	*
2.30	92.61	1.037	**
2.30	94.89	1.116	**
0.00	94.89	1.195	
1.15	96.02	1.274	*
2.30	98.30	1.353	**
0.00	98.30	1.432	
0.00	98.30	1.511	
1.15	99.43	1.589	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Ca Unit = (%) N = 87

Mean =	-0.3435	Min =	-1.3010	1st Quartile =	-0.4685
Std. Dev. =	0.2683	Max =	0.1903	Median =	-0.3054
CV % =	78.1239	Skewness =	-0.8635	3rd Quartile =	-0.1739

Anti-Log Mean = 0.453 Anti-Log Std. Dev. : (-) 0.244
(+) 0.841

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0785)
0.00	0.57	0.046	-1.3403	
1.15	1.70	0.055	-1.2618	*
0.00	1.70	0.066	-1.1833	
0.00	1.70	0.079	-1.1048	
1.15	2.84	0.094	-1.0263	*
1.15	3.98	0.113	-0.9478	*
1.15	5.11	0.135	-0.8693	*
3.45	8.52	0.162	-0.7908	***
0.00	8.52	0.194	-0.7123	
5.75	14.20	0.232	-0.6338	*****
5.75	19.89	0.278	-0.5553	*****
3.45	23.30	0.334	-0.4769	***
10.34	33.52	0.400	-0.3984	*********
11.49	44.89	0.479	-0.3199	**********
17.24	61.93	0.574	-0.2414	**********
16.09	77.84	0.687	-0.1629	**********
11.49	89.20	0.823	-0.0844	**********
1.15	90.34	0.987	-0.0059	*
4.60	94.89	1.182	0.0726	****
3.45	98.30	1.416	0.1511	***
1.15	99.43	1.697	0.2296	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Ca Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.172	-	0.109	20.00
		+	0.272	
2	0.497	-	0.380	65.00
		+	0.650	
3	0.778	-	0.752	5.00
		+	0.804	
4	1.114	-	0.914	10.00
		+	1.358	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.069	0.431
2	0.291	0.849
3	0.728	0.831
4	0.750	1.656

##

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Mg Unit = (%) N = 87

Mean =	0.882	Min =	0.070	1st Quartile =	0.312
Std. Dev. =	0.639	Max =	3.030	Median =	0.755
CV % =	72.402	Skewness =	0.964	3rd Quartile =	1.157

%	cum %	cls int	(# of bins = 20 - bin size = 0.156)
0.00	0.57	-0.008	
3.45	3.98	0.148	***
19.54	23.30	0.304	**********
9.20	32.39	0.459	********
12.64	44.89	0.615	**********
6.90	51.70	0.771	******
5.75	57.39	0.927	*****
10.34	67.61	1.083	*********
9.20	76.70	1.238	********
4.60	81.25	1.394	****
2.30	83.52	1.550	**
2.30	85.80	1.706	**
1.15	86.93	1.862	*
8.05	94.89	2.017	*******
1.15	96.02	2.173	*
0.00	96.02	2.329	
2.30	98.30	2.485	**
0.00	98.30	2.641	
0.00	98.30	2.796	
0.00	98.30	2.952	
1.15	99.43	3.108	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Mg Unit = (%) N = 87

Mean =	-0.1826	Min =	-1.1549	1st Quartile =	-0.5052
Std. Dev. =	0.3593	Max =	0.4814	Median =	-0.1221
CV % =	196.7816	Skewness =	-0.3811	3rd Quartile =	0.0635

Anti-Log Mean = 0.657 Anti-Log Std. Dev. : (-) 0.287
(+) 1.502

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.0861)
0.00	0.57	0.063	-1.1980	
1.15	1.70	0.077	-1.1118	*
0.00	1.70	0.094	-1.0257	
0.00	1.70	0.115	-0.9396	
2.30	3.98	0.140	-0.8535	**
2.30	6.25	0.171	-0.7673	**
1.15	7.39	0.208	-0.6812	*
9.20	16.48	0.254	-0.5951	********
6.90	23.30	0.310	-0.5090	******
5.75	28.98	0.378	-0.4229	*****
4.60	33.52	0.461	-0.3367	****
4.60	38.07	0.562	-0.2506	****
10.34	48.30	0.685	-0.1645	*********
3.45	51.70	0.835	-0.0784	***
11.49	63.07	1.018	0.0078	**********
14.94	77.84	1.241	0.0939	**********
5.75	83.52	1.514	0.1800	*****
3.45	86.93	1.846	0.2661	***
9.20	96.02	2.250	0.3523	********
2.30	98.30	2.744	0.4384	**
1.15	99.43	3.346	0.5245	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Mg Unit = (%) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.161	-	0.110	10.00
		+	0.237	
2	0.400	-	0.266	42.00
		+	0.602	
3	1.088	-	0.908	33.00
		+	1.303	
4	2.003	-	1.692	15.00
		+	2.372	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.075	0.347
2	0.177	0.906
3	0.758	1.561
4	1.429	2.809

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = Au Unit = (ppb) N = 87

Mean =	0.1213	Min =	-0.3010	1st Quartile =	-0.3010
Std. Dev. =	0.5394	Max =	2.1335	Median =	0.0000
CV % =	444.8068	Skewness =	1.9667	3rd Quartile =	0.3010

Anti-Log Mean = 1.322 Anti-Log Std. Dev. : (-) 0.382
(+) 4.579

%	cum %	antilog	cls int	(# of bins = 20 - bin size = 0.1281)
0.00	0.57	0.431	-0.3651	
36.78	36.93	0.579	-0.2370	**********
1.15	38.07	0.778	-0.1088	*
28.74	66.48	1.045	0.0193	********
0.00	66.48	1.404	0.1474	
0.00	66.48	1.886	0.2756	
13.79	80.11	2.533	0.4037	****
6.90	86.93	3.403	0.5318	**
3.45	90.34	4.571	0.6600	*
0.00	90.34	6.139	0.7881	
1.15	91.48	8.246	0.9163	*
2.30	93.75	11.076	1.0444	*
0.00	93.75	14.877	1.1725	
0.00	93.75	19.983	1.3007	
0.00	93.75	26.841	1.4288	
1.15	94.89	36.052	1.5569	*
1.15	96.02	48.425	1.6851	*
0.00	96.02	65.043	1.8132	
1.15	97.16	87.365	1.9413	*
1.15	98.30	117.347	2.0695	*
1.15	99.43	157.618	2.1976	*

0 1 2 3 4

SUMMARY STATISTICS and HISTOGRAM ARITHMETIC VALUES

Variable = Au Unit = (ppb) N = 87

Mean =	5.928	Min =	0.500	1st Quartile =	0.500
Std. Dev. =	20.447	Max =	136.000	Median =	1.000
CV % =	344.909	Skewness =	5.011	3rd Quartile =	2.000

%	cum %	cls int	(# of bins = 20 - bin size = 7.132)
0.00	0.57	-3.066	
90.80	90.34	4.066	********** --> 79
3.45	93.75	11.197	***
0.00	93.75	18.329	
0.00	93.75	25.461	
0.00	93.75	32.592	
1.15	94.89	39.724	*
1.15	96.02	46.855	*
0.00	96.02	53.987	
0.00	96.02	61.118	
1.15	97.16	68.250	*
0.00	97.16	75.382	
0.00	97.16	82.513	
0.00	97.16	89.645	
0.00	97.16	96.776	
0.00	97.16	103.908	
0.00	97.16	111.039	
1.15	98.30	118.171	*
0.00	98.30	125.303	
0.00	98.30	132.434	
1.15	99.43	139.566	*

0 1 2 3 4

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = ANYCHEM.TXT

Variable = Au Unit = (ppb) N = 87
N CI = 20

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.500	-	0.494	30.00
		+	0.506	
2	0.905	-	0.493	53.00
		+	1.663	
3	4.225	-	2.634	11.00
		+	6.776	
4	50.668	-	20.307	6.00
		+	126.423	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.489	0.512
2	0.268	3.053
3	1.642	10.867
4	8.138	315.441

##