MAP NO.: 106C 13

ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL
OPEN FILE

DOCUMENT NO: 093172
MINING DISTRICT: MAYO
TYPE OF WORK: GEOCHEM, GEOLOGY GEOPHYSICS

REPORT FILED UNDER: WESTMIN RESOURCES

DATE PERFORMED: JUNE 23-29, 1993

DATE FILED: FEB 02, 1994

LOCATION: **LAT.:** 64°52'N

AREA: FAIRCHILD LAKE

LONG.: 133°52'W

VALUE $: 21,300

CLAIM NAME & NO.: OLYMPIC 1-86(YB28634-826), OLYMPIC 87-92 (YB28958-961), OLYMPIC 93-98 (YB29146-151), OLYMPIC 99-150 (YB22868-919), MMM 1-4 (YB28964-967), MMM 5-12 (YB29138-145)

WORK DONE BY: D.A. CAULFIELD, M.A. STAMMERS

WORK DONE FOR: WESTMIN RESOURCES

DATE TO GOOD STANDING:

REMARKS: GRID ESTABLISHED. 40 SOIL SAMPLES COLLECTED
54 ROCK SAMPLES COLLECTED. IP AND MAG

Government of Canada / Gouvernement du Canada

MEMORANDUM **NOTE DE SERVICE**

TO / À
Dennis Oullette
Staff Geologist
Northern Affairs Program

FROM / DE
David G. Wiebe
Mining Recorder
Mayo Mining District

093172

SECURITY - CLASSIFICATION - DE SÉCURITÉ

OUR FILE/NOTRE RÉFÉRENCE
7775-6-1

YOUR FILE/VOTRE RÉFÉRENCE

DATE
March 18, 1994

SUBJECT / OBJET

Transmittal Form - Olympic and MMM Claims

On January 28, 1994 Jerald Graham submitted a transmittal form (copy attached) and two Geological/Geochemical reports done on the above claims. The $ amount required for renewal was stated as $8,000.00. This amount is incorrect.

The amount required for renewal should be $21,300.00.

My apologies for any inconvenience.

David G. Wiebe

encl.

Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded 28 January 1994

TRANSMITTAL FORM

From ▶ Mining Recorder at: Mayo

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT — Claims: Olympic 1-98, MMM 1-12 — Claim sheet no.: 106-C-13
  - Type of report: Geology/Geochemical
  - Submitted by: David A. Caulfield & Michael A. Stammers
  - Cls. work performed on
  - $ req. for ren. application: ~~$3000.00~~ $21,300.00

Graham
Signature

REPLY ACTION

Date returned

Signature

802-6027-26 (6-86)

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded 28 January 1994

TRANSMITTAL FORM

From ▶ Mining Recorder at: Mayo

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT — Claims: Olympic 1-98, MMM 1-12 — Claim sheet no.: 106-C-13
  - Type of report: Geology/Geochemical
  - Submitted by: David A. Caulfield & Michael A. Stammers
  - Cls. work performed on:
  - $ req. for ren. application: 8000.00

OFFICE OF THE REGIONAL MANAGER MINERAL RIGHTS FEB 02 1994 WHITEHORSE YUKON TERRITORY

Signature

REPLY ACTION

Date returned

Signature

802-6027-26 (6-86)

RECEIVED
JAN 28 1994
MINING RECORDER
MAYO, Y.T.
M. & N.D.

1993 SUMMARY REPORT ON THE OLYMPIC 1-98 CLAIMS MMM 1-12 CLAIMS

093172

Located in the Wernecke Mountains
Mayo Mining District
NTS 106C/13W
64° 52′ North Latitude
133° 52′ West Longitude

OFFICE OF THE REGIONAL MANAGER
MINERAL RIGHTS
FEB 02 1994
WHITEHORSE
YUKON TERRITORY

-prepared for-
WESTMIN RESOURCES LIMITED

-prepared by-
David A. Caulfield, P.Geo.
Michael A. Stammers, P.Geo.

DATES OF WORK PERFORMED: June 23-29, 1993
DATE OF REPORT: December 1993

1993 SUMMARY REPORT ON THE OLYMPIC 1-98 AND MMM 1-12 CLAIMS

TABLE OF CONTENTS

			Page
1.0		INTRODUCTION	.1.
2.0		LIST OF CLAIMS	.1.
3.0		LOCATION, ACCESS AND PHYSIOGRAPHY	.3.
4.0		AREA AND PROPERTY EXPLORATION HISTORY	
	4.1	Area Exploration History	.4.
	4.2	Property Exploration History	.4.
5.0		1993 EXPLORATION PROGRAM	.5.
6.0		REGIONAL GEOLOGY	.6.
7.0		PROPERTY GEOLOGY AND MINERALIZATION	
	7.1	Property Geology	.7.
	7.2	Mineralization	.9.
8.0		SOIL GEOCHEMISTRY	.10.
9.0		GEOPHYSICAL SURVEYS	.11.
10.0		CONCLUSIONS AND RECOMMENDATIONS	.12.

APPENDICES

Appendix A	Bibliography
Appendix B	List of Personnel
Appendix C	Statement of Expenditures
Appendix D	Rock Sample Descriptions
Appendix E	Certificates of Analysis
Appendix F	Statistical Analysis
Appendix G	Geophysical Report
Appendix H	Geologists' Certificates

LIST OF TABLES

		Page
Table 2.0.1	Claim Data	.2.
Table 7.2.1	Anomalous Rock Geochemistry	.9.
Table 7.2.2	Athens Breccia Rock Geochemistry	.10.
Table 9.1.1	Soil Geochemical Percentiles	.11.

LIST OF FIGURES

		Following Page
Figure 1	Location Map	.1.
Figure 2	Claim Map	.1.
Figure 3	Regional Geology	.6.
Figure 4	Rock Sample Geochemistry (Cu)	-Pocket-
Figure 5	Rock Sample Geochemistry (Au)	-Pocket-
Figure 6	Soil Sample Geochemistry (Cu)	-Pocket-
Figure 7	Soil Sample Geochemistry (Au)	-Pocket-

1.0 INTRODUCTION

The Olympic and MMM claim groups are located in the Wernecke Mountains, approximately 175 kilometres northeast of Mayo in east-central Yukon (Figure 1). The Wernecke Mountains are cored by at least 14,000 metres of generally fine-grained terrigenous and carbonate rocks of Helikian age that have been penetrated by mineralized breccias and cut by mafic sills and dykes. Exploration in the Wernecke Mountains was directed sporadically at copper from the early 1900's until the discovery of uranium mineralization associated with hematite breccias in 1974. Occurrences of copper and breccia-related copper-gold-cobalt mineralization have been noted in the basin, but were largely bypassed in the search for uranium and lead-zinc deposits between 1974 and 1980. The geological setting of the Wernecke Mountains is excellent for hosting Olympic Dam copper-uranium-gold-silver breccia type deposits and the Olympic 1-38 claims were staked in July 1993 on this basis. The property has been expanded in stages that included the Olympic 39-86 in August 1992, the Olympic 87-92 and MMM 1-4 in September 1992, the Olympic 93-98 and MMM 5-12 in October 1992, and the Olympic 99-150 in October 1993.

The initial work program in 1992 included lithogeochemical sampling, limited geological mapping and prospecting. Significant copper-gold-cobalt mineralization was found at several locations on the property and six hematite breccia complexes were identified. One of the breccias, the Athens Breccia, exhibited the gross sulphide zoning characteristic of the Olympic Dam deposit. These positive results lead to a limited follow-up program in 1993 that comprised geological mapping, chip sampling, soil geochemistry, geophysical surveys and prospecting.

This work program was conducted jointly by Pamicon Developments Ltd. and Equity Engineering Ltd. for Westmin Resources Limited. The same companies have been retained to report on the fieldwork.

2.0 LIST OF CLAIMS

During the 1993 work program, the Olympic-MMM property comprised 110 contiguous quartz mineral claims located in the Mayo Mining District (Figure 2). Government records indicate that the claims are owned 50% each by Pamicon Developments Ltd. and Equity Engineering Ltd. of Vancouver, B.C. Separate documents indicate that the claims are held under option by Westmin Resources Limited of Vancouver, B.C..

Following the 1993 work program an additional 52 claims (Olympic 99-150) were staked to cover favourable ground. These claims are presently registered in the staker's name, M. Stammers of North Vancouver, B.C.. The following table lists the claims by

WESTMIN RESOURCES LIMITED

FAIRCHILD PROJECT

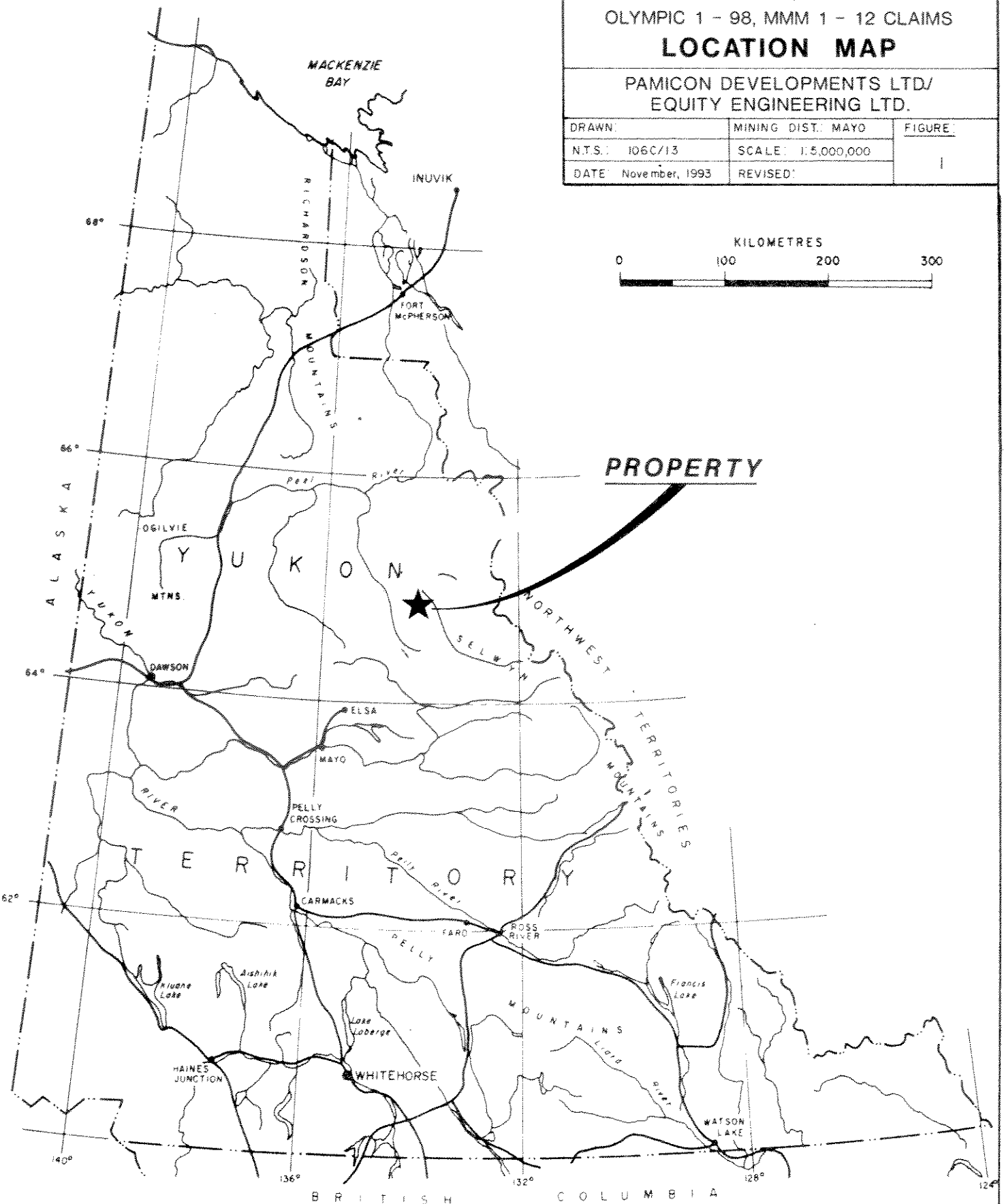
MAYO MINING DISTRICT, YUKON TERRITORY

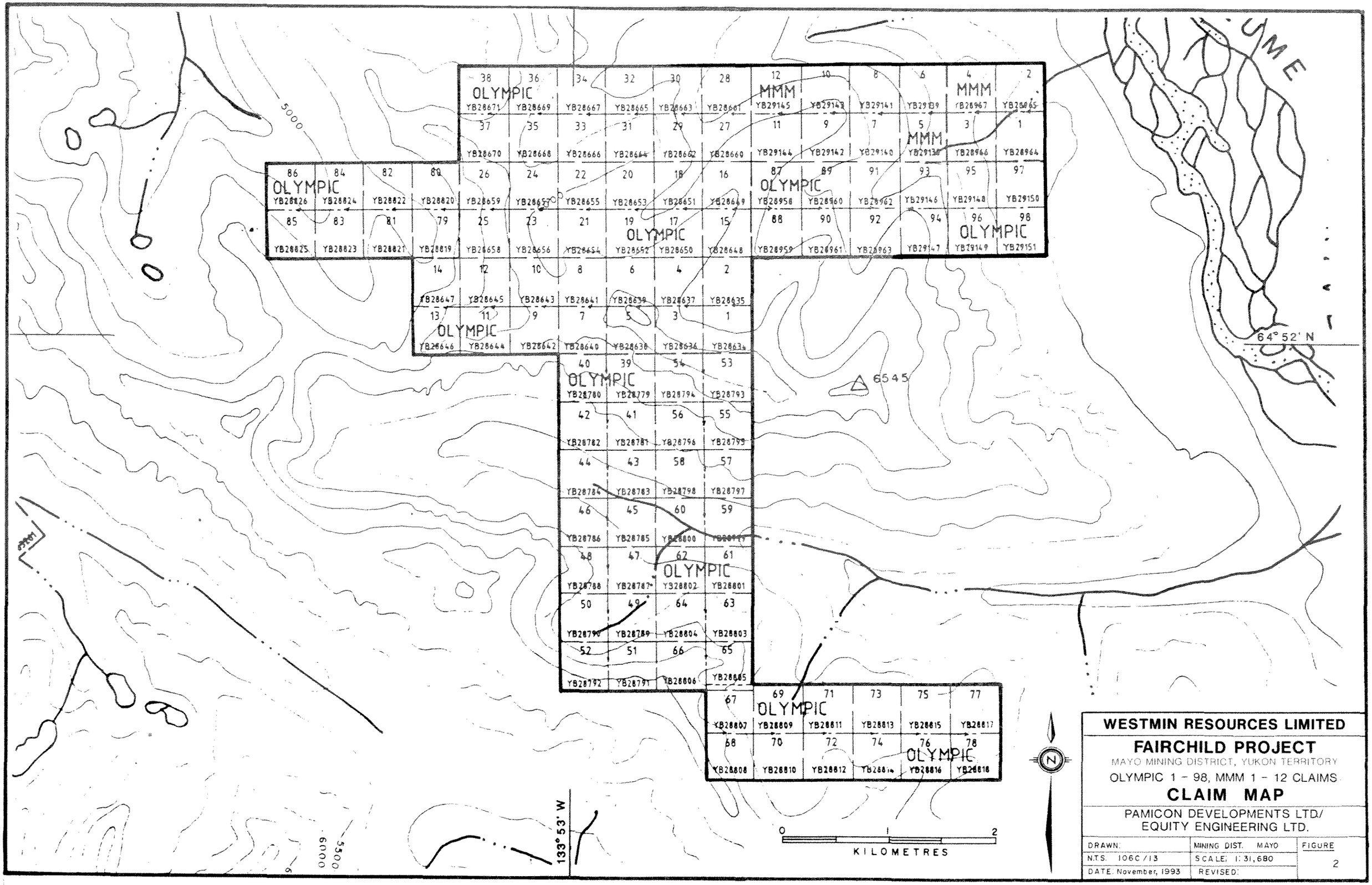
OLYMPIC 1 - 98, MMM 1 - 12 CLAIMS

LOCATION MAP

PAMICON DEVELOPMENTS LTD/
EQUITY ENGINEERING LTD.

DRAWN:	MINING DIST.: MAYO	FIGURE:
N.T.S.: 106C/13	SCALE: 1:5,000,000	1
DATE: November, 1993	REVISED:	





WESTMIN RESOURCES LIMITED

FAIRCHILD PROJECT

MAYO MINING DISTRICT, YUKON TERRITORY

OLYMPIC 1 - 98, MMM 1 - 12 CLAIMS

CLAIM MAP

PAMICON DEVELOPMENTS LTD/
EQUITY ENGINEERING LTD.

DRAWN:	MINING DIST. MAYO	FIGURE
N.T.S. 106C/13	SCALE: 1:31,680	2
DATE: November, 1993	REVISED:	

name, number, record date, expiry date and map sheet designation.

TABLE 2.0.1
CLAIM DATA

Claim Name	Record Numbers	Record Date	Expiry Date	NTS
MMM 1 - 4	YB28964-967	09/14/92	12/31/96*	106C/13
5 - 12	YB29138-145	10/19/92	12/31/96*	106C/13
Olympic 1	YB28634	07/06/92	12/31/98*	106C/13
2 - 4	YB28635-637	07/06/92	12/31/97*	106C/13
5	YB28638	07/06/92	12/31/98*	106C/13
6	YB28639	07/06/92	12/31/97*	106C/13
7	YB28640	07/06/92	12/31/98*	106C/13
8 - 9	YB28641-642	07/06/92	12/31/97*	106C/13
10	YB28643	07/06/92	12/31/98*	106C/13
11	YB28644	07/06/92	12/31/97*	106C/13
12	YB28645	07/06/92	12/31/98*	106C/13
13 - 14	YB28646-647	07/06/92	12/31/97*	106C/13
15 - 18	YB28648-651	07/06/92	12/31/96*	106C/13
19 - 22	YB28652-655	07/06/92	12/31/97*	106C/13
23	YB28656	07/06/92	12/31/98*	106C/13
24	YB28657	07/06/92	12/31/97*	106C/13
25	YB28658	07/06/92	12/31/98*	106C/13
26	YB28659	07/06/92	12/31/97*	106C/13
27 - 30	YB28660-663	07/06/92	12/31/96*	106C/13
31 - 38	YB28664-671	07/06/92	12/31/97*	106C/13
39	YB28779	08/24/92	12/31/98*	106C/13
40	YB28780	08/24/92	12/31/97*	106C/13
41	YB28781	08/24/92	12/31/98*	106C/13
42	YB28782	08/24/92	12/31/97*	106C/13
43	YB28783	08/24/92	12/31/98*	106C/13
44	YB28784	08/24/92	12/31/97*	106C/13
45	YB28785	08/24/92	12/31/98*	106C/13
46	YB28786	08/24/92	12/31/97*	106C/13
47 - 66	YB28787-806	08/24/92	12/31/98*	106C/13
67 - 70	YB28807-810	08/24/92	12/31/97*	106C/13
71 - 78	YB28811-818	08/24/92	12/31/96*	106C/13
79 - 80	YB28819-820	08/24/92	12/31/98*	106C/13
81	YB28821	08/24/92	12/31/97*	106C/13
82	YB28822	08/24/92	12/31/98*	106C/13
83	YB28823	08/24/92	12/31/95*	106C/13
84	YB28824	08/24/92	12/31/97*	106C/13
85	YB28825	08/24/92	12/31/95*	106C/13
86	YB28826	08/24/92	12/31/97*	106C/13
87 - 92	YB28958-961	09/14/92	12/31/96*	106C/13
93 - 98	YB29146-151	10/19/92	12/31/96*	106C/13
99 - 150	YB22868-919	10/12/93	10/12/94	106C/13

* Subject to approval of assessment work covered by this report

3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Olympic-MMM property is located in the Wernecke Mountains of east central Yukon, approximately 175 kilometres northeast of Mayo (Figure 1). The property is located 8.5 kilometres southwest of Fairchild Lake on the west side of the Bonnet Plume River. The claims are situated in the Mayo Mining District, centred at 64° 52′ north latitude and 133° 52′ west longitude.

The Wernecke Mountains may be accessed from Mayo by float plane to a number of well distributed lakes and by wheeled aircraft to the 800 metre long gravel airstrip at Bear River, some 17 kilometres west-southwest of the Olympic-MMM property. Mayo has scheduled air service from Whitehorse and is located on the Silver Trail Highway (#11), a branch of the Klondike Highway (#2).

Access during the 1993 field program was by DC3 aircraft from Mayo to the Bear River airstrip and then by helicopter 13 kilometres northeast to a base camp established on Breccia Creek. The Olympic-MMM property lies 10 kilometres southeast of the base camp and was reached by helicopter.

The Wind River winter tote road originating near Elsa, was built through the project area during the 1950's to access oil and gas exploration sites to the north and in the early 1960's was utilized again during work on the Snake River (Crest) iron deposit. A winter tote road, which passes immediately to the east of the property, was built in the late 1960's for exploration of copper occurrences at Dolores Creek and Bonnet Plume (Hoover) copper prospects. This route was re-activated during the coal and uranium exploration boom in the late 1970's.

The topography is mountainous and typical of alpine glaciated terranes, with deep valleys and serrated ridges. Elevations on the Olympic-MMM property range from 730 metres in the creek valley on the MMM claims to over 2,000 metres on several unnamed peaks on the Olympic claims.

This part of the Yukon did not receive continental Pleistocene glaciation, but was subjected to significant alpine glaciation to form the wide U-shaped valleys of the Bonnet Plume and Wind Rivers. A few receding alpine glaciers are present on north facing slopes.

Most of the property lies above tree line, which lies at approximately 1,000 metres, with the exception of the lower slopes and the valley bottom where the vegetation consists of stunted spruce, wild rose, arctic sage, dwarf alder and willow. Above tree line, vegetation consists of alpine grasses and moss with local concentrations of dwarf birch and alder.

Climate in the area is characterized by six months of cold winter and three to four months of warm to hot summer with May

through early October the best months for exploration on the lower slopes of the property. Higher elevations are accessible June through September. The average daily January and July temperatures for Mayo are -29°C and 15.2°C with annual precipitation of 306.3 millimetres, of which 40% is snow.

4.0 AREA AND PROPERTY EXPLORATION HISTORY

4.1 Area Exploration History

The first copper occurrences were noted by trappers working in the region at the turn of the century. In 1935, the McCluskey Lake copper occurrences were staked and the Bonnet Plume and Wind River area received sporadic exploration for copper over the next 20 years. Exploration activity was stimulated in the late 1950's when Crest Exploration Limited built a winter road from Elsa into their banded iron deposit in the Snake River area. Work on the Snake River Iron deposit outlined 18.6 billion tonnes averaging 47% iron in the Hadrynian Rapitan Group (Yeo, 1986).

In the early 1960's, the first copper showing was found at Dolores Creek by L. Brown. Bonnet Plume River Mines Ltd. conducted exploration from 1967 to 1969, at which time limited diamond drilling was completed (Laznicka and Edwards, 1979).

In 1971, the discovery of zinc-lead showings in the Mackenzie Mountains to the east brought exploration activity to the southeastern portion of the Wernecke Mountains. Continued lead-zinc exploration in the Proterozoic basin led to the discovery of uranium mineralization in 1974 by Archer, Cathro and Associates Ltd. In the period 1975 to 1980, a number of major companies (i.e. Urangesellschaft, Noranda) and joint ventures (i.e. Wernecke Joint Venture, Mountaineer Mines- Pan Ocean Oil Ltd.) were involved in exploration of breccia-related uranium mineralization. At this time, Pan Ocean drilled coal reserves on their leases to outline in excess of 500 million tonnes of low sulphur, high volatile bituminous coal in Cretaceous strata in the Bonnet Plume Basin located north of the Wernecke Mountain Range.

The 1980's saw very limited exploration throughout the project area. Archer Cathro embarked on a limited exploration campaign to test the gold potential of some of the known uranium occurrences. The lack of recent exploration activity has allowed most of the staked areas to come open.

4.2 Property Exploration History

Prior to 1992, no work had been filed for the area now covered by the Olympic-MMM claims. Near the southeastern boundary of the property, uranium showings were staked as the Tow claims (Minfile occurrence 106C/13-90) by the Wernecke Joint Venture in 1978. The

property was explored with airborne radiometrics in 1979 (Assessment Report 090517) and by ground radiometric, soil geochemical and rock sampling surveys in 1980 (Assessment Report 090731). To the northwest, various operators explored Minfile occurrence 106C/13-70 centered on the north flowing creek in this area. Airborne radiometric and magnetic surveys (Noranda, 1976) and ground radiometric, soil geochemical, rock sampling and mapping surveys (Wernecke Joint Venture) were conducted during the period 1976 to 1981. The area, now staked as the Olympic claims, was selected as a target from an re-evaluation of prospecting traverses conducted by Pamicon Developments Ltd.'s personnel in the late 1970's.

During August and September of 1992, Westmin Resources Limited carried out a preliminary exploration program on the Olympic and MMM properties, consisting of lithogeochemical sampling, chip sampling, limited geological mapping and prospecting (Caulfield, 1992a, 1992b). The program was designed to determine the potential for an Olympic Dam copper-uranium-gold-silver breccia type deposit. A total of 66 grab samples, 12 chip samples and 95 lithogeochemical rock samples were taken from both properties.

5.0 1993 EXPLORATION PROGRAM

During the period June 23-29, 1993 Westmin Resources Ltd. carried out a field exploration program on the Olympic-MMM property, consisting of grid establishment, soil geochemistry, limited geological mapping, chip sampling, prospecting, and geophysical surveys.

Grid establishment in the Athens area included the emplacement of a 800 metre, belt-chain measured and flagged baseline with 1.7 kilometres of slope corrected, flagged and compassed crosslines.

Soil geochemistry was completed over a portion of the Athens grid. A total of 40 samples was taken every 50 metres on the baseline and on two crosslines 225 metres apart. Samples were collected from either "A" or "B" horizon material at depths ranging from 10 to 30 cm and placed in numbered kraft envelopes. The sample site was marked in the field with plastic flagging and the sampler recorded notes pertaining to sample horizon, colour, texture, vegetation, and local physiography. Samples were partially dried in camp and then shipped to Chemex Labs of North Vancouver, B.C. for sample preparation and analysis. Analytical procedures and a complete set of results for gold, lanthanum and 24 elements by ICP geochemistry may be found in the appendices.

Geological mapping was completed on portions of the property and plotted at 1:10,000 scale. A total of 54 rock samples was collected on the property. All samples were shipped to Chemex Labs and analyzed for gold-lanthanum plus 24-elements by ICP

geochemistry. Twelve overlimit assays were performed for copper. Rock description forms, analytical procedures and complete results are included in the appendices of this report. The statistical analysis and computer drafting was completed by Westmin Resources Limited.

Induced polarization/resistivity (IP) and magnetometer surveys were completed on the Athens grid by Scott Geophysics Ltd. of Vancouver, B.C.. IP and magnetic surveys each covered 1.7 line kilometres on three lines. A geophysical report, including maps, is appended.

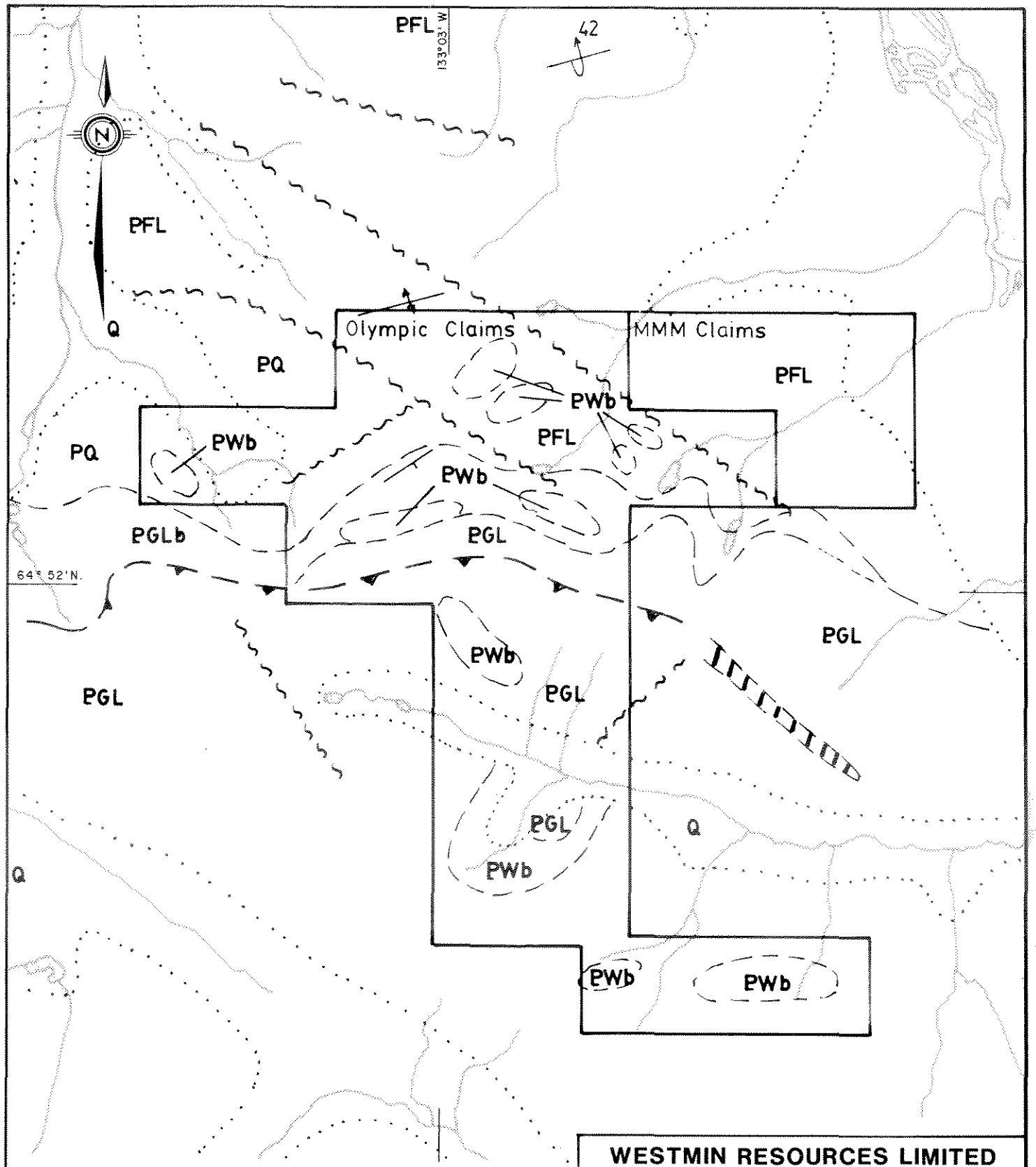
5.0 REGIONAL GEOLOGY

This summary of the regional geology is based on work by Delaney (1985), Thorkelson and Wallace (1993) and by Pamicon Developments Ltd. (unpublished, 1977). References to earlier work are cited by Delaney. Map sheet 106C/13 was mapped by Thorkelson and Wallace during the 1993 field season and this work is scheduled to be released early in 1994.

The Wernecke Mountains are cored by at least 14,000 metres of generally fine-grained terrigenous and carbonate rocks of Helikian age that have been penetrated by hematite breccias and cut by mafic sills and dykes. The entire succession has been named the Wernecke Supergroup and has been divided into three groups (oldest to youngest): Fairchild Lake Group, Quartet Group and Gillespie Lake Group. To the east and south, the Hadrynian Pinguicula Group unconformably overlies the Wernecke Supergroup. Paleozoic strata bound the western margin and Cretaceous and Tertiary sediments fill the area to the north in the Bonnet Plume Basin.

A complete table of formations including lithologies is presented on the legend following Figure 3. This map is a portion of the 1:100,000 regional geology completed by Pamicon Developments Ltd. in 1977 and modified in 1993 incorporating work by Thorkelson and Wallace.

The main structural components of the Wernecke terrane are the southeast trending fault splays (Deslauriers, Knorr and Snake River Faults) of the Richardson Fault Array. These faults are interpreted to be deep-seated, long-lived, vertical structures which have undergone considerable right lateral and vertical movement. These faults separate the Wernecke Supergroup from younger Proterozoic rocks to the east. In the western part of the area, Lower Paleozoic rocks unconformably overlie the Wernecke Supergroup, forming spectacular angular unconformities. On a regional scale, sediments dip away from the Bonnet Plume valley causing the Proterozoic rock units to be exposed in a northwest trending anticlinal structure.



Geology by: Pamicon Developments Ltd., Delaney (1985)

Legend on following page.

KILOMETRES
0 1 2

WESTMIN RESOURCES LIMITED

FAIRCHILD PROJECT

MAYO MINING DISTRICT, YUKON TERRITORY

OLYMPIC 1 - 98, MMM 1 - 12 CLAIMS

REGIONAL GEOLOGY

PAMICON DEVELOPMENTS LTD./
EQUITY ENGINEERING LTD.

DRAWN:	MINING DIST.: MAYO	FIGURE
N.T.S. 106C/13	SCALE: 1:50,000	3
DATE: November, 1993	REVISED:	

LEGEND

(to accompany Figure 3)

STRATIFIED ROCKS

Quaternary

Q Alluvium, colluvium, and glacial deposits

Cambrian to Devonian

CDc Resistant, crudely stratified, light grey weathering dolostone

Middle to Late Proterozoic

Pinguicula Group (?) PP

PPv Northeast of Bonnet Plume River, grey to maroon, dense to amygdaloidal lava flows

PPs Southwest of Bear River, maroon to green weathering siltstone, maroon weathering quartzite-clast conglomerate, and buff weathering carbonate

Middle Proterozoic

Gillespie Lake Group

PGL Undivided Gillespie Lake Group: orange, brown and grey weathering dolostone and silty dolostone, locally stromatolitic, locally hosting chert nodules, interbedded with subordinate black weathering siltstone and shale, green, grey and brown weathering laminated mudstone, and grey to white weathering quartzose sandstone.

- **PGLbm** Southwest of Bear River, brown to black weathering laminated mudstone and shale
- **PGLgm** Southeast of Bear River, green, grey and brown weathering laminated mudstone
- **PGLs** Black weathering siltstone and shale
- **PGLb** Basal Gillespie Group: cross laminated, orange weathering silty to sandy dolostone interbedded with black weathering shale and grey to white weathering quartzose, fine-grained sandstone

Quartet Group

PQ Black weathering shale, finely laminated dark grey weathering siltstone, and planar to cross laminated light grey weathering siltstone and fine-grained sandstone. Grades upward into basal Gillespie Lake Group.

- **PQ1** Black shale with sandstone and shale interbeds, quartzite
- **PQ2** Pyritic quartzite

Fairchild Lake Group

PFL Undivided Fairchild Lake Group: green to grey weathering siltstone, fine-grained sandstone, and laminated limy siltstone. In upper part of succession, interbeds of grey, brown and white weathering carbonate, and interbedded with dark grey weathering shale and siltstone, below conformable contact with Quartet Group.

- **PFLc** Grey, brown and white weathering carbonate with minor interbeds of dark siltstone and shale
- **PFLs** Black and dark grey weathering shale and siltstone with minor interbeds of carbonate

INTRUSIVE ROCKS

Middle to Proterozoic to Mesozoic

gr Fine- to medium-grained granite to granodiorite; local rhyolitic border phase

Fine- to medium-grained gabbro, diorite and basalt

Middle to Late Proterozoic

Wernecke Breccia

PWb Mottled red, green and grey weathering hematitic and dolomitic siltstone and dolostone-clast breccia, and related metasomatized country rock. Breccia and metasomatites host copper, uranium, cobalt, silver and gold mineralization.

SYMBOLS



stratigraphic or intrusive contact
known, approximate, assumed



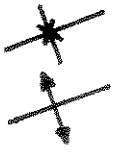
normal fault (see pegs on hanging wall)
known, approximate, assumed



reverse fault (teeth on hanging wall)



bedding
inclined, overturned, vertical



fold axis
syncline

anticline

GEOLOGY

106D/16 After Derek J. Thorkelson and Carol A. Wallace, OPEN FILE 1993-2 (G) Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada

106C/13, E/1, F/4 After Pamicon Developments 1977

7.0 PROPERTY GEOLOGY AND MINERALIZATION

7.1 Property Geology

Limited geological mapping was completed on the Olympic-MMM property in 1993. The following modified discussion is based mainly on work completed in 1992 (Caulfield 1992a, 1992b). The Olympic-MMM claims cover all three groups of the Wernecke Supergroup and have been subjected to extensive faulting (Figures 4 and 5). These sedimentary units have been intruded by a large number of hematite breccias and gabbroic dykes and diorite bodies. The focus of the 1992 and 1993 programs was on examining the breccias, and therefore no detailed structural or lithological examinations of the sedimentary units were conducted.

The oldest rocks exposed on the property are those of the Fairchild Lake Group (**Unit Fxx**) which occur in the northeast corner of the property. Where examined, the rocks are finely laminated grey to green, siltstone (**Unit Fst**) and phyllite (**Unit Fph**). In close proximity to the hematite breccias, the units have a skarned appearance with epidote and silica alteration. The block of Fairchild Lake sediments underlying the MMM claims is overturned.

Units of the Quartet Group (**Unit Qxx**) cross the central part of the Olympic claims. These units consist of interbedded, light to dark grey, siltstone and quartzite with minor interbeds of shale and carbonate. The appearance of carbonate in the section suggests the exposed rock units are in the upper part of the Quartet section close to the Gillespie Lake carbonate facies.

The southern half of the Olympic-MMM property is underlain by orange weathering dolomite (**Unit Gdo**) and siltstone (**Unit Gst**) of the Gillespie Lake Group. North of the east-west trending fault, the lowest and transitional member of the Gillespie Group is exposed. This unit (**Unit Gdos**) consists of massive interbeds of orange weathering dolomite and light green quartzite-siltstone, giving the unit a striped appearance. Immediately south of the fault, the Gillespie Lake Group is comprised of massively bedded, fossiliferous dolomite and limestone (**Unit Gxx**). The fossils are stromatolites which are known to occur only at the top of the Gillespie section. Therefore, the vertical displacement along the fault must be considerable as the entire Gillespie Group is at least 4,000 metres thick.

The Wernecke Supergroup strata are cut by a number of hematite breccia bodies that are spatially related to the major faults crosscutting the property. Six different breccia bodies have been identified on the Olympic-MMM property: Athens, Montreal, L.A., Barcelona, Tokyo and Melbourne. The size of the breccias varies from less than 100 metres across to greater than 1000 metres. The Melbourne Breccia, which crosses the central part of the claim group, has been mapped over 3.0 kilometres and remains open in both

directions. The breccias in the northern part of the property may be controlled in part by the fault structures. To date, no structural feature has been identified with the southern breccia bodies.

For mapping purposes, the breccias have been subdivided by clast type lithology: homolithic, or one clast type (**Unit Bhm**) and heterolithic, containing more than one fragment type (**Unit Bht**). The heterolithic breccias have not been differentiated; however, further examination of the Athens breccia in 1993 suggests that at least five phases may be differentiated on the basis of fragment and matrix type, colour and alteration. A greater percentage of the hematite breccias are of the latter type above with the homolithic breccias being restricted to the margin of the breccia bodies. The degree of fragmentation, alteration and rounding of clasts in the homolithic breccia increases towards the core of the breccia body. The outer contact of the homolithic breccia is gradational into unaltered sediments in which bedding is warped and tightly folded suggesting forceful injection of the breccia. The doming of dolomite beds on either side of the Athens Breccia in the southwest corner of the property also suggests forceful emplacement. The weakest manifestation of brecciation is a crackled phase exhibiting no rotation of fragments. Specular hematite (<5%) and carbonate fill the interstices between fragments. This phase commonly weathers brown due to strong carbonate alteration. The inner contact of the homolithic breccia is normally very sharp with the heterolithic phase. Homolithic breccia types seem to be restricted to the Quartet-Gillespie transition and further up section.

The heterolithic phase is characterized by its variable clast type and the varying degree of alteration in the clasts, whose colour varies from a deep purplish red to pink. The breccias are matrix-supported with subrounded to rounded fragments ranging from one centimetre to one metre but normally averaging less than 5 centimetres. The matrix consists of extremely milled fragments (<3 mm) and specular hematite (5-30%). Other significant alteration minerals found in the matrix include silica, carbonate and chlorite; clasts are altered to silica, red hematite and perhaps potassium feldspar. The clasts include all rock types of the Wernecke Supergroup and several blocks of leucocratic monzonite intrusive are contained in the Melbourne Breccia. One of these blocks measures several metres in diameter and is surrounded by exfoliated fragments of the same type. The monzonite is fine-grained, equigranular and is comprised of sodic plagioclase and apatite with 5-10% specular hematite and 1-2% crystalline purple garnet.

A number of gabbroic dykes (**Unit Gb**) and diorite bodies (**Unit Idi**) crosscut all three groups of the Wernecke Supergroup. The gabbroic dykes, for the most part, are found crosscutting upper parts of the Gillespie Lake Group and they are oriented in a

northwesterly direction. To date, the mapped diorite bodies are associated with the northern breccia bodies.

7.2 Mineralization

The following discussion refers only to samples taken and mineralization examined in 1993. The reader is referred to the 1992 reports on the Olympic (Caulfield, 1992a) and MMM (Caulfield, 1992b) properties for a review of the 1992 sampling results. The following table lists the significant gold, cobalt and copper values from the 1993 program.

TABLE 7.2.1
ANOMALOUS ROCK GEOCHEMISTRY

Sample	Width (m)	Gold (ppb)	Cobalt (ppm)	Copper (ppm)
546457[1]	float	<5	139	1.14%
546458[1]	float	<5	170	1.85%
546465[1]	float	45	54	9000
545510[2]	float	85	123	8100
545511[2]	float	90	123	5220
545512[2]	float	150	20	30.60%
545513[2]	0.2	2080	456	11.70%
545514[2]	float	220	20	9570
545515[2]	float	280	48	6.47%
545516[2]	float	450	224	2.17%
545517[2]	float	205	35	5.07%
545518[2]	float	95	201	1.41%
546466[3]	float	15	54	7100
545467[3]	float	20	42	2.13%
545850[4]	3.0	520	12	107
545851[4]	select grab	25	59	3000
546115[4]	float	145	17	6.20%
546116[4]	0.5	130	79	5.56%
546117[4]	2.0	35	3	9860

[1] Barcelona Breccia area
[2] In the area of 1992 gold-bearing float samples 10977, 10978 north of Tokyo Breccia
[3] East end of Melbourne Breccia
[4] MMM showing area

Float samples 546457 and 546458, taken on the east side of the Barcelona Breccia, were from sheared sericite, silica and albite altered sediments in talus (Figures 4 and 5). The high copper values are intriguing in that no sulphide minerals were identified. The other float sample taken from the same area, 546465, was taken from heterolithic hematite breccia containing 65% specular hematite and <1% bornite. In addition to the high copper value, this sample contained elevated barium (1310 ppm) and bismuth (34 ppm). The sample series 545510 to 545518 were selected

from altered sediments and quartz-carbonate altered zones and vein material to the north of the Tokyo Breccia. Float sample 545513 was probably derived from the same source as 1992 float sample 10977 (2640 ppb Au, 1.73% Cu). Samples 545515-517 were collected from talus upslope from 1992 sample 10978 (2520 ppb Au, 8.18% Cu). Although the 1993 samples were similar in appearance to 10978, their gold values were much lower, suggesting either an alternative source for that sample or erratic gold distribution. Sample 545515 has a considerably higher phosphorus content (8030 ppm) than other samples in the same area.

Further copper mineralization was located northwest of the MMM showing. Sample 545850, which contains 520 ppb gold with only 107 ppm copper, occurs within crenulated Fairchild Lake Group silty argillite with trace pyrite and chalcopyrite disseminated in specific beds and along fractures. All other elements are within background levels. Additional copper mineralization extends downslope from the MMM showing in the creek bottom, occurring in chlorite-carbonate veins and fractures.

A series of chip samples were taken from the Athens Breccia. These samples, chipped from large talus boulders or outcrop where available, were collected to give a better indication of metal grades and to test breccia exposures missed by 1992 program. The sampling shows that copper is concentrated on the west side of a north trending fault, within pink and grey coloured, potassium feldspar altered breccia. All of the samples contain high potassium (>6%) and barium values as indicated in Table 7.2.2.

TABLE 7.2.2
ATHENS BRECCIA ROCK GEOCHEMISTRY

Sample	Width (m)	Gold (ppb)	Cobalt (ppm)	Copper (ppm)	Barium (ppm)
546407	float	<5	26	1.25%	4850
545414[1]	25.0	15	29	958	4850
545415[1]	17.0	30	29	2050	3480
546416[2]	15.0	10	46	1020	3440
545417[2]	15.0	20	21	208	3520
546418[1]	20.0	40	36	55	8080
546419[1]	25.0	<5	44	152	5690
546420[1]	30.0	15	29	135	3660
545421[1]	5.0	20	28	693	1690

[1] Chip sample - from large boulders in talus/subcrop
[2] Chip sample - outcrop

8.0 SOIL GEOCHEMISTRY

An orientation survey, consisting of 40 soil samples, was conducted on the Athens grid (Figures 6 and 7). Samples were taken

at 25 metre intervals on the baseline and at greater intervals on lines 5375N and 5600E due to poor sampling conditions. The baseline was oriented at 035°. Thresholds based on the 5th, 16th, 50th, 84th and 95th percentiles were used to delineate anomalous areas for copper and gold (Table 9.1.1). It should be noted that essentially all copper values are elevated in the grid area, giving artificially high percentiles in comparison to other properties in the Wernecke Mountains.

TABLE 9.1.1
SOIL GEOCHEMICAL PERCENTILES

PERCENTILE	COPPER (ppm)	GOLD (ppb)	RATING
5th	40	10	
16th	111	18	
50th	335	38	
84th	648	72	Anomalous
95th	911	405	Strongly Anomalous

The strongly anomalous copper values support the rock sampling results which show that copper mineralization is concentrated west of the fault within the heterolithic hematite breccia. The anomalous gold values follow this same trend. The strength of the gold in soils is somewhat surprising as they are higher overall than rock samples collected in the same area. There is correlation between gold, copper and molybdenum.

9.0 GEOPHYSICAL SURVEYS

Induced polarization (IP) and magnetometer surveys were conducted on the Athens grid by Scott Geophysics Ltd. to test the response of the Athens zone. The IP survey, utilizing a pole-dipole array with an "a" spacing of 75 metres and "n" separations of 1 to 4, was carried out over lines 5200N, 5375N and 5600N. Magnetometer readings were taken at 12.5 metre intervals on these lines and the intervening cross lines. Survey results and figures are appended.

The chargeability response was strong on all three lines reflecting the 5-30% specular hematite found within the Athens heterolithic breccia. As none of the surveyed lines passed out of the breccia body, contrasting values could not be obtained for the surrounding dolomites although these values would be expected to be low. Conversely, the resistivity plots exhibit rapid changes in resistivity where values range from <100 ohm-m to >15,000 ohm-m. The cause of the low resistivity is not known although these lows plot along the creek course.

The magnetometer survey showed very little magnetic response through the breccia.

10.0 CONCLUSIONS AND RECOMMENDATIONS

The Olympic claims cover six hematite breccia complexes covering an area of five by six kilometres. Widespread copper mineralization with associated gold and cobalt values can be found throughout the claim groups. The bulk of this mineralization is related to the specular hematite-bearing heterolithic breccias although copper mineralization also occurs in veins, pods and siderite-rich breccias in the homolithic phase. Sulphide mineralogy, in order of abundance, consists of chalcopyrite, pyrite, bornite and possibly chalcocite. Pyrite commonly occurs in crystalline form. In the heterolithic breccia, the sulphide minerals occur as disseminations, fracture fillings or in veins. In the field, copper zones may be identified by abundant malachite staining or by a sooty-textured red lichen coating rock surfaces. The Athens Breccia exhibits sulphide zoning from bornite in the core to chalcopyrite and then pyrite on the fringes of the pipe. The mineralization is accompanied by silica, carbonate, chlorite, barite, sericite and potassium feldspar alteration. Of the six breccias examined, the Athens and Melbourne Breccias returned the most consistent copper grades.

The breccias are situated at the juxtaposition of all three groups of the Wernecke Supergroup in an area of extensive faulting. The Olympic hematite breccias are in close proximity to each other and it is quite plausible that a number of these breccias coalesce into a single body at depth. The degree of structural displacement must have had a pronounced effect on the emplacement of the hematite breccias and later movement may have remobilized copper-bearing fluids and concentrated copper mineralization. This may explain the high grade copper mineralization associated with the siderite-rich breccia within the Melbourne Breccia.

The hematite breccias have been subdivided by clast type into two categories: homolithic and heterolithic. The degree of fragmentation, rounding, alteration, and mineralization is stronger in the heterolithic phase which contains a variety of clast lithologies including specular hematite-bearing sodic monzonite fragments. The significance of the intrusive fragment is two-fold. Its presence suggests that the degree of fragment transport within the heterolithic phase of the breccia must be considerable as no intrusive rocks of this type have been found on or near the Olympic property. Secondly, the high specular hematite content in the intrusive may indicate a genetic relationship between the hematite breccia and a deeper-seated intrusive body.

One of the breccias, the Athens Breccia, exhibits the gross sulphide zoning characteristic of the Olympic Dam deposit in which pyrite lies peripheral to chalcopyrite which in turns envelopes a copper-rich bornite core. This breccia is characterized by strong potassium feldspar and barite alteration. Copper mineralization (>1000 ppm) appears to be concentrated in a northerly trending

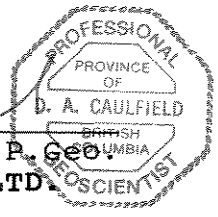
zone, roughly 100 metres by 700 metres, on the west side of the breccia body. Anomalous copper and gold soil sample results follow this same trend. Gold in soil values, ranging up to 760 ppb, are a magnitude higher than rock samples in the same area suggesting that stronger gold-bearing mineralization remains to be discovered. The IP survey shows that the specular hematite-bearing Athens breccia is highly chargeable; further work will be required to determine whether IP may be used to distinguish copper-gold mineralization from specular hematite in the breccia. At the very least this technique will be extremely effective in tracing breccias zones beneath covered areas.

The MMM claims were staked to cover prominent copper, iron and cobalt stained bluffs on the north side of a northeasterly draining tributary of the Bonnet Plume River. The MMM showing consists of three high grade chalcopyrite-cobaltite quartz-chlorite veins within Fairchild Lake Group siltstones. The surrounding wallrock is weakly to moderately altered by sericite and biotite and contains lower grade copper and cobalt mineralization along fractures and in quartz veinlets. Control sampling in 1992 outside of the veining indicates that the visual copper oxide staining may be more impressive than warranted by the primary sulphide mineralization present. However, individual grab samples from the veins returned very significant copper, cobalt, nickel and gold values.

Prospecting traverses conducted in 1993 have outlined a number of tasks for future programs: (1) to locate the source of the high grade copper float found at either end of the Barcelona Breccia; in particular, the bornite-bearing hematite breccia sample 546465, (2) to determine the source, type and size of the copper- and gold-rich float found on the northeast side of the Tokyo Breccia; (3) to outline the extent of copper mineralization found on the eastern end of the Melbourne Breccia; (4) to resample and determine the extent of the gold-bearing pyritic sediments northeast of the MMM showing at sample site 545850; and (5) to continue tracing the copper mineralization in the creek bottom below the MMM showing. Unfortunately, topographic restraints may greatly hinder the investigation of some of these areas.

The 1992 and 1993 exploration results justify further work on the Olympic-MMM property. The next stage of exploration should focus on the prospective areas outlined above and on detailed mapping and control sampling of the Athens and Melbourne Breccias. Grid control should be expanded on the Athens Breccia and established over the Melbourne Breccia for mapping, soil sampling and radiometric surveys. Targets for diamond drilling should be selected from the results of these programs.

Respectfully submitted,



David A. Caulfield, P.Geo.
EQUITY ENGINEERING LTD.



Michael A. Stammers, P.Geo.
PAMICON DEVELOPMENTS LTD.

Vancouver, British Columbia
December, 1993

APPENDIX A

BIBLIOGRAPHY

BIBLIOGRAPHY

Archer, A., Bell, R.T. and Thorpe, R. (1986): Age Relationships from U-Th-Pb isotope studies of uranium mineralization in Wernecke breccias; in Current Research, Part A, Geological Survey of Canada, Paper 86-1A, p. 385-391.

Archer, A.R. and Schmidt, U. (1978): Mineralized Breccias of Early Proterozoic Age, Bonnet Plume River District, Yukon Territory; CIM Bulletin, vol. 71, p. 53-58.

Bell, R.T. (1978): Breccias and uranium mineralization in the Wernecke Mountains, Yukon - a progress report ; in Current Research, Part A, Geological Survey of Canada, Paper 78-1A. p. 317-322.

Bell, R.T. (1982): Comments on the geology and uraniferous mineral occurrences of the Wernecke Mountains , Yukon and District of MacKenzie; in Current Research, Geological Survey of Canada, Paper 82-1B. p. 279-284.

Bell, R.T. (1986): Geological map of northeastern Wernecke Mountains, Yukon Territory; Geological Survey of Canada, Open File 1027.

Bell, R.T. (1986): Megabreccias in northeastern Wernecke Mountains, Yukon Territory; in Current Research, Part A, Geological Survey of Canada, Paper 86-1A. p. 375-384.

Bell, R.T. and Delaney, G.D. (1977): Geology of some uranium occurrences in Yukon Territory; in Current Research, Part A, Geological Survey of Canada, Paper 77-1A. p. 33-37.

Bell, R.T. and Jones, L.D. (1979): Geology of some Uranium Occurrences in Western Canada; in Current Research, Part A, Geological Survey of Canada, Paper 79-1A. p. 397-340.

Carriere, J.J., Sinclair, W.D. and Kirkham, R.V. (1981): Copper Deposits and Occurrences in Yukon Territory; Geological Survey of Canada, Paper 81-12, 10 pp.

Caulfield, D.A. (1992a): 1992 Geochemical Report on the Olympic 1-92 Claims; Report submitted for assessment credits.

Caulfield, D.A. (1992b): 1992 Geochemical Report on the MMM 1-4 Claims; Report submitted for assessment credits.

Delaney, G.D. (1981): The Mid-Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory; in Proterozoic Basins of Canada, Geological Survey of Canada, Paper 81-10, p. 1-23.

Delaney, G.D. (1985): The Middle Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory; Unpublished Ph.D. Thesis, University of Western Ontario, 373 pp.

Eisbacher, G.H. (1978): The Major Proterozoic Unconformities, Northern Cordillera; in Current Research, Part A, Geological Survey of Canada, Paper 78-1A, p. 53-58.

Goodfellow, W.D. (1979): Geochemistry of copper, lead, and zinc mineralization in Proterozoic rocks near Gillespie Lake, Yukon; in Current Research, Part A, Geological Survey of Canada, Paper 79-1A. p. 333-338.

Green, L.H. (1972): Geology of Nash Creek, Larsen Creek and Dawson map-areas, Yukon Territory; Geological Survey of Canada, Memoir 364, 157 pp.

Laznicka, P. and Edwards, R.J. (1979): Dolores Creek, Yukon - a Disseminated Copper Mineralization in Sodic Metasomatites; in Economic Geology, vol. 74, p. 1352-1370.

Thorkelson, D. and Wallace, C. (1993): Geological Map of Slats Creek Map Area, Wernecke Mts., Yukon (106D/16); Open File 1993-2, Indian and Northern Affairs Canada, Exploration and Geological Services Division (1:50,000).

Yeo, G.M. (1986): Iron-Formation in the late Proterozoic Rapitan Group, Yukon and Northwest Territories; in Mineral Deposits of the Northern Cordillera, Canadian Institute of Mining and Metallurgy Special Vol. 37, p. 142-153.

Young, G.M., Jefferson, C.W., Delaney, G.D. and Yeo, G.M. (1979): Middle and late Proterozoic evolution of the northern Canadian Cordillera and Shield; in Geology, vol. 7, p. 329-330.

APPENDIX B

LIST OF PERSONNEL

LIST OF PERSONNEL

Mark E. Baknes (Sr. Geologist)
207, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Tom Bell (Sr. Prospector)
207, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Patricia Bonnetplume (Cook)
163 Dalton Terrace
Whitehorse, Yukon Y1A 3G2

David Caulfield (Sr. Geologist)
207, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Shaun Dykes (Sr. Geologist)
904, 1055 Dunsmuir Street
Vancouver, B.C. V7X 1C4

Barry Girling (Sr. Prospector)
711, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Murray Jones (Sr. Geologist)
904, 1055 Dunsmuir Street
Vancouver, B.C. V7X 1C4

Harlan Meade (Sr. Geologist)
904, 1055 Dunsmuir Street
Vancouver, B.C. V7X 1C4

Bruce McCall (Sampler)
711, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Michael A. Stammers (Sr. Geologist)
711, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

APPENDIX C

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
OLYMPIC 1-98 / MMM 1-12 MINERAL CLAIMS

CANADA) In the matter of an evaluation program on the
) Olympic 1-98 / MMM 1-12 Mineral Claims

I, Mike Stammers for Pamicon Developments Limited, 711, 675 West Hastings Street, Vancouver, B.C. and Equity Engineering Ltd., 207, 675 West Hastings Street, Vancouver, B.C. do solemnly declare that a program consisting of geological mapping, prospecting, geochemical and geophysical survey work was carried out on the Olympic 1-98 / MMM 1-12 Mineral Claims during the period June 23 to 29, 1993.

The following expenses were incurred during the course of this work and in the compilation and reporting of the results:

PROFESSIONAL FEES AND WAGES:

David A. Caulfield, P. Geo.		
3.0 days @ $375/day	$ 750.00	
Mike Stammers, P. Geo.		
3.0 days @ $375/day	1,125.00	
Mark Baknes, P. Geo.		
1.0 days @ $200/day	200.00	
Barry Girling, Prospector		
2.0 days @ $250/day	500.00	
Tom Bell, Prospector		
1.0 days @ $250/day	250.00	
B. McCall, Sampler		
1.0 days @ $200/day	200.00	
Murray Jones, P. Geo.		
2.0 days @ $300/day	600.00	
Harlan Meade, P. Geo.		
1.0 days @ $375/day	375.00	
Prorated Wages	2,490.88	$ 6,490.88

EXPENSES:

Helicopter:	Direct	$ 4,440.00
	Prorated	848.25
	Fuel	840.92
Fixed Wing		2,054.28
Travel, Accommodation & Meals		684.70
Airfare		155.34
Camp Food		674.27
Camp Fuel		24.96
Camp Rental		641.06
Rentals:	Radios	98.97
	Equipment	80.44
	Truck	219.07

Field Supplies		$ 272.34	
Freight		21.45	
Telephone		113.65	
Assays		1,737.36	
Geophysical		1,830.71	
Reproductions		98.31	
Report:	Pamicon & Equity	3,596.87	
	Westmin	2,064.86	
Management Fees		2,510.63	$ 23,008.44

TOTAL: $ 29,499.32

Notes:

1. Wages are based on actual man days spent on the property.
2. Helicopter charges are based on actual hours flown.
3. Assay charges are based on actual numbers of samples from the property.
4. General expenses (all other costs) are prorated according to man days allocated to each property.

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at Vancouver in the Province of British Columbia this 28 day of JANUARY, 1994

A Commissioner for Oaths for, or
Notary Public for the Yukon Territory

APPENDIX D

ROCK SAMPLE DESCRIPTIONS

MINERALS AND ALTERATION TYPES

AB	albite	AD	adularia	AK	ankerite
AS	arsenopyrite	AZ	azurite	BA	barite
BI	biotite	BO	bornite	BR	brannerite
CA	calcite	CB	Fe-carbonate	CC	chalcocite
CL	chlorite	CO	cobaltite	CP	chalcopyrite
CY	clay	DI	diopside	DO	dolomite
EP	epidote	ER	erythrite	GA	garnet
GE	goethite	GL	galena	GR	graphite
HE	hematite	HS	specularite	JA	jarosite
KF	potassium feldspar	MC	malachite	MG	magnetite
MN	Mn-oxides	MR	mariposite	MS	muscovite/sericite
NE	neotocite	PO	pyrrhotite	PY	pyrite
QZ	quartz	SI	silica	SP	sphalerite
TT	tetrahedrite				

ALTERATION INTENSITIES

m	medium	s	strong	tr	trace
vs	very strong	vw	very weak	w	weak

Property : OLYMPIC NTS : 106C/13 Date : December, 1993

Sample No.	UTM :	N	Type : Float(talus)	Alteration : wCL, wKF, sSI, mAB	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : <1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545510	Elevation: 1440 m		Sample Width : m	Secondaries: wMC	85.	<0.2	123.	8100.	4.	216.
	Orientation: /		True Width : m	Host : Meta-argillite						

Comments : 5m northwest of 548432 - weakly banded appearance. Weak slickesides, chalcopyrite blebs, rusty-black weathering.

Sample No.	UTM :	N	Type : Float	Alteration : mCL, wKF, mSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 1-2%CP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545511	Elevation: 1450 m		Sample Width : m	Secondaries: mAZ, mMC	90.	1.4	123.	5220.	<2	214.
	Orientation: /		True Width : m	Host : Meta-argillite						

Comments : Similar to 545510, less banded, more quartz, more malachite/azurite, pyrite, stronger gossanous weathering.

Sample No.	UTM :	N	Type : Float(talus)	Alteration : sCB	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 80%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545512	Elevation: 1450 m		Sample Width : m	Secondaries: None	150.	10.2	20.	30.60%	8.	1570.
	Orientation: /		True Width : m	Host :						

Comments : Massive chalcopyrite from carbonate alteration zone.

Sample No.	UTM :	N	Type : Select	Alteration : sCB, sQZ, sSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : 5.0 m	Metallics : 30%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545513	Elevation: 1530 m		Sample Width : 2.0 m	Secondaries: wAZ, wMC	2080.	10.2	456.	11.70%	4.	532.
	Veining : /		True Width : 1.0 m	Host : Contact of breccia/dolomite with phyllite						

Comments : Quartz carbonate alteration zone in shear. Sample of quartz rich material.

Sample No.	UTM :	N	Type : Float(talus)	Alteration : wCL, wKF, sQZ, mSI, mAB	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : <1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545514	Elevation:		Sample Width : m	Secondaries: wMC	220.	<0.2	20.	9570.	<2	84.
	Orientation: /		True Width : m	Host : Breccia						

Comments :

Sample No.	UTM :	N	Type : Float(talus)	Alteration : mCB	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 15%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545515	Elevation: 1370 m		Sample Width : m	Secondaries: None	280.	2.0	48.	6.47%	<2	246.
	Orientation: /		True Width : m	Host : Vein breccia in altered sediment						

Comments : Northern edge of talus. Vein breccia, source of 1992 sample 10978.

Sample No.	UTM :	N	Type : Float(talus)	Alteration : sCB	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 18%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545516	Elevation: 1370 m		Sample Width : m	Secondaries: sMC	450.	2.4	224.	2.17%	<2	120.
	Orientation: /		True Width : m	Host : Vein breccia						

Comments : Near southern edge of talus. 25m south of 545515.

Sample No.	UTM :	N	Type : Float(talus)	Alteration : sCB, mQZ	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 10%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545517	Elevation: 1370 m		Sample Width : m	Secondaries: sMC	205.	<0.2	35.	5.07%	<2	210.
	Orientation: /		True Width : m	Host : Vein breccia						

Comments : Same location as 545515. More quartz veining that 545515 or 545516.

Sample No.	UTM :	N	Type : Float	Alteration : sSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 1-2%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545518	Elevation: 1550 m		Sample Width : m	Secondaries: mMC	95.	<0.2	201.	1.41%	<2	64.
	Orientation: /		True Width : m	Host : Metasediments						

Comments : Altered Fairchild sediments, chalcopyrite blebs along fracture filling veinlets, this kind of float is fairly abundant.

Sample No.	UTM :	N	Type : Float	Alteration : sCB, wHE	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 4%CP, 1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545622	Elevation: 4535 ft		Sample Width : m	Secondaries: None	<5	<0.2	25.	601.	<2	24.
	Orientation: /		True Width : m	Host : Heterolithic breccia						

Comments : Sample taken at east end of lake. Subcrop scree covered in copper lichen.

Sample No.	UTM :	N	Type : Float	Alteration : sCB, mCL, wKF, mHE	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : wCP, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545623	Elevation: 4200 ft		Sample Width : m	Secondaries: None	<5	<0.2	39.	18.	<2	34.
	Orientation: /		True Width : m	Host : Heterolithic and homolithic breccia						

Comments : Sample taken from subcrop scree. Small window of breccia within Quartet transition unit (ribbed siltstone/dolomite).

Sample No.	UTM :	N	Type : Grab	Alteration : mMS, mQZ, sSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : 30 m	Metallics : 1%CP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545624	Elevation: 4700 ft		Sample Width : 20 m	Secondaries: trAZ,mGE,mHE,mJA,sMC,mNE	<5	<0.2	42.	2350.	20.	12.
	Bedding/fau: 005 / 80 E		True Width : 10 m	Host : Light green siltstone						

Comments : Faulted siltstone unit upslope from breccia body. Zone is marked bylimonite and malachite gossan. Appears to be faulted to the north. Copper lichen CP occurs along fractures & as patchy blebs. Heterolithic HE breccia talus coming down from above.

Sample No.	UTM :	N	Type : Grab	Alteration : vsCL	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : trCP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545625	Elevation: 4650 ft		Sample Width : 5x1 m	Secondaries: trMC	<5	<0.2	25.	399.	<2	174.
	Orientation: /		True Width : m	Host : Chlorite-rich heterolithic breccia						

Comments : Dark maroon-green weathering heterolithic breccia. Trace malachite staining.

Sample No.	UTM :	N	Type : Float	Alteration : wCB, wCL	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : <0.5%CP, 10%MG	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545626	Elevation: 4525 ft		Sample Width : m	Secondaries: trMC	<5	<0.2	22.	201.	<2	36.
	Dyke : 015 / 80 E		True Width : m	Host : Gabbro dyke						

Comments : Strongly magnetic gabbro. Sample taken from spall from outcrop.

Sample No.	Grid Co-or. 56 +30N		Type : Grab	Alteration : None	Au	Ag	Co	Cu	Pb	Zn
	47 +75E		Strike Length Exp. : >100 m	Metallics : None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545848	Elevation: 1010 m		Sample Width : 2 m	Secondaries: None	<5	<0.2	18.	46.	12.	<2
	Bedding : 045 / 35 NW		True Width : m	Host : Fairchild - interbedded sedimentary rocks						

Comments : Poorly mineralized rock except for occasional layers with disseminated specular hematite.

Sample No.	UTM :	N	Type : Grab	Alteration : mCL	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : 20 m	Metallics : 1-3%CP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545849	Elevation: 1075 m		Sample Width : 2 m	Secondaries: wAZ, mER, mMC	<5	0.2	34.	907.	10.	<2
	Orientation: /		True Width : m	Host : Dark green talcose locally, argillaceous sediments						

Comments : Mineralization along fractures, foliation, and in large quartz-carbonate veins which crosscut replacement zones.

Sample No.	UTM :	N	Type : Grab	Alteration : wCB, wCL, wQZ	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : 50 m	Metallics : trCP, tr-1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545850	Elevation: 1075 m		Sample Width : 3 m	Secondaries: wJA	520.	0.4	12.	107.	10.	<2
	Bedding : 028 / 47 W		True Width : 2 m	Host : Fairchild-silty argillite-abundant small crenulations						

Comments : Disseminated pyrite in specific beds (more siliceous?) and fractures in warped sediments.

Sample No.	UTM :	N	Type : Select	Alteration : None	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 3%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545851	Elevation: 1075 m		Sample Width : m	Secondaries: None	25.	3.4	59.	3000.	10.	<2
	Orientation: /		True Width : m	Host : Argillite - black, soft						

Comments : Chalcopyrite in fractures.

Sample No.	UTM :		Type : Grab	Alteration :	mCB, wCL	Au	Ag	Co	Cu	Pb	Zn
		N									
		E	Strike Length Exp. : >100 m	Metallics :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545886	Elevation: 1910 m		Sample Width : 2 m	Secondaries:	None	<5	<0.2	11.	67.	<2	10.
	Orientation: /		True Width : m	Host :	Homolithic breccia						

Comments : 250m from start of traverse, CL-CB in matrix of breccia.

Sample No.	UTM :		Type : Grab	Alteration :	mCL, wKF	Au	Ag	Co	Cu	Pb	Zn
		N									
		E	Strike Length Exp. : >100 m	Metallics :	3-5%HS, tr-1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
545887	Elevation: 1830 m		Sample Width : 2 m	Secondaries:	None	30.	<0.2	24.	25.	<2	40.
	Orientation: /		True Width : m	Host :	Heterolithic hem. breccia						

Comments : 500m from starting point, largely argillite clasts in breccia.

Sample No.	UTM :		Type : Grab	Alteration :	None	Au	Ag	Co	Cu	Pb	Zn
		N									
		E	Strike Length Exp. : m	Metallics :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546007	Elevation: 1570 m		Sample Width : m	Secondaries:	None	<5	0.6	14.	96.	4.	26.
	Orientation: /		True Width : m	Host :	Recrystallized dolomite						

Comments : Rusty brown weathering.

Sample No.	UTM :		Type : Grab	Alteration :	mCL, wEP, wMS	Au	Ag	Co	Cu	Pb	Zn
		N									
		E	Strike Length Exp. : m	Metallics :	3%MG	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546008	Elevation: 1545 m		Sample Width : m	Secondaries:	None	<5	<0.2	45.	171.	<2	292.
	Orientation: /		True Width : m	Host :	Gabbro						

Comments : Blocky weathering.

Sample No.	UTM :		Type : Grab	Alteration :	mCL, mEP, mMS	Au	Ag	Co	Cu	Pb	Zn
		N									
		E	Strike Length Exp. : m	Metallics :	<1%MG	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546009	Elevation: 1580 m		Sample Width : m	Secondaries:	None	<5	<0.2	40.	139.	<2	174.
	Orientation: /		True Width : m	Host :	Gabbro						

Comments : Locally sheared and local intense alteration, sample taken at peak.

Sample No.	UTM :		Type : Grab	Alteration :	wCB, mCL, wEP, mMS	Au	Ag	Co	Cu	Pb	Zn
		N									
		E	Strike Length Exp. : m	Metallics :	2%MG	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546010	Elevation: 1535 m		Sample Width : m	Secondaries:	None	<5	<0.2	39.	116.	<2	256.
	Orientation: /		True Width : m	Host :	Gabbro						

Comments :

Sample No.	UTM :		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		N					(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. :	m	Metallics :	1%HS, <1%PY						
546011	Elevation: 1480	m	Sample Width :	m	Secondaries:	None	<5	<0.2	63.	31.	<2	62.
	Orientation: /		True Width :	m	Host :	Metasomatized sediments						

Comments : Some chalcopyrite, malachite in minor/rare carbonate zones. Took sample below contact in brown weathering dolostone.

Sample No.	UTM :		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		N					(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. :	m	Metallics :	None						
546012	Elevation: 1412	m	Sample Width :	m	Secondaries:	None	<5	<0.2	3.	9.	<2	6.
	Orientation: /		True Width :	m	Host :	Hematitic chert/exhalite						

Comments : Blotchy red, smokey chert, transitional to iron formation.

Sample No.	UTM :		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		N					(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. :	m	Metallics :	<1%HS, trPY						
546013	Elevation: 1365	m	Sample Width :	m	Secondaries:	None	<5	<0.2	7.	13.	<2	14.
	Orientation: /		True Width :	m	Host :	Metasomatized sediments						

Comments : Coarse brown-grey weathering talus block.

Sample No.	UTM :		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		N					(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. :	m	Metallics :	>1%CP, 20%HS						
546114	Elevation:		Sample Width :	m	Secondaries:	None	<5	<0.2	16.	65.	<2	98.
	Orientation: /		True Width :	m	Host :	Breccia						

Comments : Quick sample taken while tagging posts with chopper. Taken in talus beside #1 Post for Olympic 81 and 82.

Sample No.	UTM :		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		N					(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. :	m	Metallics :	50-60%CP, 10%HS						
546115	Elevation: 2750	ft	Sample Width :	m	Secondaries:	mAZ, mCC, sHE, sJA, sMC	145.	1.8	17.	6.20%	<2	<2
	Orientation: /		True Width :	m	Host :	Sediments						

Comments : Talus below cliffs. Lots of this similar material at this location.

Sample No.	UTM :		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		N					(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. :	20 m	Metallics :	20%CP						
546116	Elevation: 2765	ft	Sample Width :	50 cm	Secondaries:	sHE, sJA, mMC	130.	6.0	79.	5.56%	6.	40.
	Orientation: 100 / 50 NE		True Width :	50 cm	Host :	Sediments						

Comments :

Sample No.						Au	Ag	Co	Cu	Pb	Zn
	UTM :	N	Type : Select	Alteration :	CB, CL	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. : m	Metallics :	5%CP, 2%HS						
546117	Elevation: 2775 ft		Sample Width : 2 m	Secondaries:	sHE, sJA, mMC	35.	0.6	3.	9860.	4.	30.
	Orientation: /		True Width : ? m	Host :	Sediments						

Comments : Chalcopyrite strong in calcite ankerite veins and stringers and is disseminated in sediment host. Select grab from outcrop.

Sample No.						Au	Ag	Co	Cu	Pb	Zn
	UTM :	N	Type : Select	Alteration :	mCB, mMS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. : m	Metallics :	2-3%CP, 1%HS						
546118	Elevation: 2950 ft		Sample Width : 1 m	Secondaries:	mJA, wMC	<5	<0.2	76.	1995.	<2	18.
	Bedding : 070 / 80 SE		True Width : ? m	Host :	Sediments						

Comments : Select grab from outcrop and subcrop.

Sample No.						Au	Ag	Co	Cu	Pb	Zn
	UTM :	N	Type : Float	Alteration :	wCL, mCY, sAB	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. : m	Metallics :	1-2%CP, 5%HS						
546119	Elevation: 3000 ft		Sample Width : m	Secondaries:	sHE, sJA	<5	<0.2	<1	873.	4.	14.
	Orientation: /		True Width : m	Host :	Sediments						

Comments : Talus below outcrop, 50-75m above creek on north side.

Sample No.						Au	Ag	Co	Cu	Pb	Zn
	UTM :	N	Type : Select	Alteration :	KF, SI	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		E	Strike Length Exp. : m	Metallics :	2-5%CP, 2%HS, trPY						
546407	Elevation:		Sample Width : m	Secondaries:	mCC, mMC	230.	7.6	43.	1.25%	264.	148.
	Orientation: /		True Width : m	Host :	Heterolithic breccia						

Comments : Well mineralized heterolithic breccia with stringers and matrix filling of chalcopyrite in stockwork breccia.

Sample No.						Au	Ag	Co	Cu	Pb	Zn
	Grid Co-or. 54 +75N		Type : Float(talus)	Alteration :	sKF	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	50 +20E		Strike Length Exp. : m	Metallics :	1%CP, 3%HS						
546414	Elevation: 1410 m		Sample Width : 25 m	Secondaries:	trMC	15.	0.2	26.	958.	<2	20.
	Orientation: /		True Width : m	Host :	Heterolithic breccia						

Comments : Mixed grey and pink heterolithic breccia. Crackled grey Gillespie dolomitic siltstone with siderite veins.

Sample No.						Au	Ag	Co	Cu	Pb	Zn
	Grid Co-or. 54 +00N		Type : Float(talus)	Alteration :	sCA, sKF	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	50 +90E		Strike Length Exp. : m	Metallics :	1-2%CP, 5%HS, trPY						
546415	Elevation:		Sample Width : 17 m	Secondaries:	None	30.	<0.2	29.	2050.	<2	20.
	Orientation: /		True Width : m	Host :	Mixed heterolithic breccia						

Comments : Mixed breccia-pinkish grey micro breccia, homo-breccia of grey dolomite siltstone with siderite and specular hematite veins, chalcopyrite and specular hematite. Mixed grey and pink breccia with patchy Kspar vein alteration & chalcopyrite.

Sample No.	Grid Co-or.		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		53 +25N		Float(talus)		sCA, sKF	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		51 +00E	Strike Length Exp. :	m	Metallics :	1%CP						
546416	Elevation:	1440 m	Sample Width :	15 m	Secondaries:	HE	10.	<0.2	29.	1020.	<2	16.
	Orientation:	/	True Width :	m	Host :	Mixed heterolithic breccia						

Comments : Dark grey breccia with specular hematite/siderite veining and in matrix. Cream microbreccia (sericite) with very minor chalcopyrite, specular hematite. Breccia with mixed grey +/- pink clasts, +/- carbonate-Kspar flooding with chalcopyrite.

Sample No.	Grid Co-or.		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		52 +00N		Chip		None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		50 +90E	Strike Length Exp. :	m	Metallics :	trCP, 5-10%HS						
546417	Elevation:	1420 m	Sample Width :	15 m	Secondaries:	None	20.	<0.2	46.	208.	<2	16.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia - dark grey variety						

Comments : Mainly dark grey heterolithic breccia with occasional pink clasts. Very little Kspar veining. Abundant specular hematite and carbonate veining. Trace chalcopyrite/no copper lichen.

Sample No.	Grid Co-or.		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		53 +50N		Float(talus)		wCa, sKF	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		53 +80E	Strike Length Exp. :	m	Metallics :	trCP, 5+%HS						
546418	Elevation:	1400 m	Sample Width :	20 m	Secondaries:	None	40.	<0.2	21.	55.	<2	20.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia-pink with abundant coarse HS						

Comments : Disseminated siderite in heterolithic microbreccia with abundant pink felspathic matrix with very little chalcopyrite and abundant dispersed coarse-grained specular hematite.

Sample No.	Grid Co-or.		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		53 +70N		Float(talus)		None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		53 +00E	Strike Length Exp. :	m	Metallics :	trCP, 5-10%HS, trPY						
546419	Elevation:	1400 m	Sample Width :	25 m	Secondaries:	None	<5	<0.2	36.	152.	<2	22.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Pink heterolithic breccia - mainly siderite carbonate and specularite veining.

Sample No.	Grid Co-or.		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		54 +20N		Float(talus)		sCA, wKF	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		53 +60E	Strike Length Exp. :	m	Metallics :	trCP, trPY						
546420	Elevation:	1390 m	Sample Width :	30 m	Secondaries:	sHE	15.	<0.2	44.	135.	<2	16.
	Orientation:	/	True Width :	m	Host :	Dk grey heterolithic breccia						

Comments : Peculiar olive green lichen. Very specularite-rich to 20%.

Sample No.	Grid Co-or.		Type :		Alteration :		Au	Ag	Co	Cu	Pb	Zn
		54 +80N		Chip		CA, KF	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
		53 +50E	Strike Length Exp. :	m	Metallics :	tr-1/2%CP, trPY						
546421	Elevation:	1390 m	Sample Width :	5 m	Secondaries:	None	20.	<0.2	29.	693.	<2	18.
	Orientation:	/	True Width :	m	Host :	Mixed heterolithic breccia						

Comments : Mixed heterolithic breccia, some Kspar flooding with minor chalcopyrite. Just east of barite vein.

Sample No.	UTM :	N	Type : Float/select	Alteration :	sSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics :	15%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546456	Elevation: 1520 m		Sample Width : m	Secondaries:	sJA	30.	<0.2	164.	128.	<2	38.
	Orientation: /		True Width : m	Host :	Altered sediments?						

Comments : Samples collected in talus from below steep chute. Structural host eg. APE/etc.

Sample No.	UTM :	N	Type : Float/select	Alteration :	sCY, sAB?	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546457	Elevation: 1525 m		Sample Width : m	Secondaries:	mAZ, ?JA, mMC, U second.?	<5	<0.2	139.	1.14%	<2	86.
	Orientation: /		True Width : m	Host :	Altered sediments						

Comments : Similar to above.

Sample No.	UTM :	N	Type : Float/select	Alteration :	CY, AB?	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546458	Elevation: 1520 m		Sample Width : m	Secondaries:	wAG, JA?, wMC, U second.?	<5	<0.2	170.	1.85%	<2	126.
	Orientation: /		True Width : m	Host :	Strongly altered sediments						

Comments : Secondary mineral looks like yellow cake.

Sample No.	UTM :	N	Type : Float/select	Alteration :	wCL, wCY, sMS, sSI, AB?	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546459	Elevation: 1520 m		Sample Width : m	Secondaries:	mAZ,CC?,sMC,wMN, NE?, mL	<5	<0.2	21.	1860.	<2	20.
	Orientation: /		True Width : m	Host :	Mineralized sheared sediments						

Comments : Malachite, azurite is common, but no chalcopyrite observed; is copper from chalcocite or neotocite?

Sample No.	UTM :	N	Type : Grab	Alteration :	wCB, wKF, wMS	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics :	2%HS, <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546460	Elevation: 1442 m		Sample Width : m	Secondaries:	mGE	<5	<0.2	116.	205.	<2	26.
	Orientation: /		True Width : m	Host :	Contact metasomatite/breccia						

Comments :

Sample No.	UTM :	N	Type : Grab	Alteration :	wCL, wKF, wMS, mSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics :	<1%HS, <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546461	Elevation: 1400 m		Sample Width : m	Secondaries:	mGE	<5	<0.2	21.	31.	<2	26.
	Orientation: /		True Width : m	Host :	Contact between breccia and metasediments						

Comments :

Sample No.	UTM :	N	Type : Float	Alteration : wCB, sKF, mMS, mSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546462	Elevation: 1415 m		Sample Width : m	Secondaries: None	<5	<0.2	18.	64.	<2	12.
	Orientation: /		True Width : m	Host : Heterolithic breccia						

Comments : Abundant potassic-rich breccia in talus, source of float is rugged.

Sample No.	UTM :	N	Type : Float(talus)	Alteration : wCB, sCL, mSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : <1%CP, 10%HS, 5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546463	Elevation: 1435 m		Sample Width : m	Secondaries: sGE	25.	<0.2	233.	8.	<2	36.
	Orientation: /		True Width : m	Host : Metasiltstone						

Comments : Semi-massive chalcopyrite in quartz vein talus. Sample just inside claims.

Sample No.	UTM :	N	Type : Float(talus)	Alteration : sKF, vsMS, wAB	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 1%HS, 2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546464	Elevation: 1442 m		Sample Width : m	Secondaries: wLI	<5	<0.2	35.	10.	<2	12.
	Orientation: /		True Width : m	Host : Altered siltstone						

Comments : Below claim posts, 60m west of 546463. Sparse copper mineralization in area.

Sample No.	UTM :	N	Type : Float/select	Alteration : None	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : <1%BO, 65%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546465	Elevation: 1450 m		Sample Width : m	Secondaries: mMC	45.	1.6	54.	9000.	<2	82.
	Orientation: /		True Width : m	Host : Heterolithic breccia						

Comments : Should be followed up.

Sample No.	UTM :	N	Type : Float/select	Alteration : sCL, sKF, mSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 1-2%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546466	Elevation: 1402 m		Sample Width : m	Secondaries: mMC	15.	<0.2	54.	7100.	<2	142.
	Orientation: /		True Width : m	Host : Heterolithic breccia						

Comments : In breccia near gabbro contact.

Sample No.	UTM :	N	Type : Float/select	Alteration : sCL, sSI	Au	Ag	Co	Cu	Pb	Zn
		E	Strike Length Exp. : m	Metallics : 2-3%CP, 2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
546467	Elevation: 1375 m		Sample Width : m	Secondaries: mMC	20.	<0.2	42.	2.13%	<2	288.
	Orientation: /		True Width : m	Host : Heterolithic breccia						

Comments : 175m west southwest of 546466. Looks like sheared marginal phase +/- vuggy quartz veinlet.

APPENDIX E

CERTIFICATES OF ANALYSIS

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 04-352597
Fax: (604) 984-0218

24-Element Geochemistry Package (24-ICP)

Inductively-Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

The 24 element rock geochemistry package provides quantitative analysis of all major elements (except silicon) as well as most important trace elements.

A prepared sample (0.50g) is digested with perchloric, nitric and hydrofluoric acids to dryness. The residue is taken up in a volume of 25ml of 10% hydrochloric acid and the resulting solution is analyzed by inductively-coupled plasma atomic emission spectroscopy. Results are corrected for spectral interelement interferences.
For this project only uranium and lanthanum were also analyzed.

Chemex Code	Element	Detection Limit	Upper Limit
573	Aluminum	0.01 %	15 %
565	Barium	10 ppm	1 %
575	Beryllium	0.5 ppm	0.01 %
561	Bismuth	2 ppm	1 %
576	Calcium	0.01 %	25 %
562	Cadmium	0.5 ppm	0.05 %
569	Chromium	1 ppm	1 %
563	Cobalt	1 ppm	1 %
577	Copper	1 ppm	1 %
566	Iron	0.01 %	15 %
560	Lead	2 ppm	1 %
570	Magnesium	0.01 %	15 %
568	Manganese	5 ppm	1 %
554	Molybdenum	1 ppm	1 %
564	Nickel	1 ppm	1 %
559	Phosphorus	10 ppm	1 %
584	Potassium	0.01 %	10 %
578	Silver	0.5 ppm	0.02 %
583	Sodium	0.01 %	10 %
582	Strontium	1 ppm	1 %
579	Titanium	0.01 %	10 %
556	Tungsten	10 ppm	1 %
572	Vanadium	1 ppm	1 %
558	Zinc	2 ppm	1 %
	Uranium	10 ppm	1 %
	Lanthanum	10 ppm	1 %

Chemex Labs Ltd.

Analytical Chemists *Geochemists* *Registered Assayers*

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 04-352597
Fax: (604) 984-0218

Gold

Fire Assay Collection/ Atomic Absorption Spectroscopy (FA-AA)

Chemex Code: 100

A 10g sample is fused with a neutral lead oxide flux inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead.

These beads are digested for 30 mins in 0.5ml concentrated nitric acid, then 1.5ml of concentrated hydrochloric acid are added and the mixture is digested for 1 hr. The samples are cooled, diluted to a final volume of 5ml, homogenized and analyzed by atomic absorption spectroscopy.

Detection limit: 5 ppb

Upper Limit: 10,000 ppb

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

Pamicon Developments Limited
711 - 675 W. Hastings St.
Vancouver, BC, V6B 1N4

Project: Fairchild - Olympic-MMM

Certificate Date: 15-Nov-93
Page Number: 1
Total Pages: 4
Account: BM

Sample Description	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
545510	85	<0.2	7.01	180	1.0	<2	4.10	<0.5	123	80	8102	10.51	0.52	1.42
545511	90	1.4	6.82	170	2.0	<2	1.30	<0.5	123	122	5218	11.21	0.64	1.64
545512	150	10.2	0.21	20	<0.5	418	2.95	<0.5	20	6	>10000	>25.00	0.02	0.15
545513	2080	10.2	0.10	10	<0.5	<2	0.17	<0.5	456	242	>10000	17.36	0.02	0.03
545514	220	<0.2	8.64	90	1.0	<2	4.07	<0.5	20	69	9574	3.44	0.33	1.70
545515	280	2.0	6.82	80	<0.5	<2	1.78	<0.5	48	146	>10000	6.55	0.26	0.03
545516	450	2.4	4.96	60	<0.5	<2	0.81	<0.5	224	178	>10000	7.80	0.15	0.07
545517	205	<0.2	5.49	40	<0.5	<2	1.65	<0.5	35	165	>10000	4.75	0.06	0.13
545518	95	<0.2	2.02	80	<0.5	<2	0.78	1.0	201	232	>10000	2.38	1.02	0.41
545622	<5	<0.2	7.25	320	1.5	<2	2.43	<0.5	25	102	601	4.17	2.99	1.32
545623	<5	<0.2	6.43	540	0.5	<2	1.47	<0.5	39	112	18	6.52	3.79	1.54
545624	<5	<0.2	4.39	410	1.0	4	0.51	0.5	42	202	2349	1.18	2.11	0.61
545625	<5	<0.2	6.30	130	<0.5	<2	0.50	0.5	25	66	399	10.26	0.47	3.36
545626	<5	<0.2	8.12	710	<0.5	6	1.05	<0.5	22	108	201	6.69	3.49	2.06
545848	<5	<0.2	10.67	750	1.5	2	0.21	<0.5	18	103	46	5.59	2.85	1.28
545849	<5	0.2	10.24	780	2.0	2	0.16	0.5	34	94	907	3.50	2.97	1.04
545850	520	0.4	8.50	490	1.0	<2	0.25	<0.5	12	94	107	3.76	2.05	0.78
545851	25	3.4	11.05	820	2.5	2	0.22	0.5	59	148	3003	3.00	3.37	0.85
545886	<5	<0.2	6.14	570	<0.5	2	5.37	<0.5	11	62	67	6.62	3.17	3.40
545887	30	<0.2	7.74	840	<0.5	4	0.26	<0.5	24	111	25	8.62	5.96	2.61
546007	<5	0.6	0.11	10	<0.5	<2	18.91	<0.5	14	3	96	3.44	0.02	11.10
546008	<5	<0.2	6.73	360	<0.5	2	4.59	<0.5	45	51	171	9.39	1.36	2.75
546009	<5	<0.2	8.46	260	<0.5	<2	4.20	<0.5	40	95	139	7.07	1.59	3.79
546010	<5	<0.2	6.62	210	<0.5	<2	3.46	<0.5	39	46	116	8.89	0.82	3.17
546011	<5	<0.2	8.75	410	<0.5	<2	1.11	<0.5	63	55	31	5.32	2.88	1.52
546012	<5	<0.2	0.22	110	<0.5	<2	0.12	<0.5	3	300	9	0.53	0.10	0.04
546013	<5	<0.2	4.72	110	<0.5	<2	3.71	<0.5	7	121	13	3.60	0.76	1.79
546407	230	7.6	7.67	1370	<0.5	18	0.19	<0.5	43	83	>10000	4.97	9.34	0.06
546414	15	0.2	6.50	4850	<0.5	16	3.06	<0.5	26	95	958	6.67	6.85	1.39
546415	30	<0.2	6.42	3480	0.5	10	2.99	<0.5	29	81	2049	6.34	6.57	1.37
546416	10	<0.2	6.80	3440	0.5	6	3.90	<0.5	29	78	1019	5.17	7.38	1.49
546417	20	<0.2	6.79	3520	<0.5	6	2.20	<0.5	46	83	208	6.92	6.40	0.79
546418	40	<0.2	6.56	8080	<0.5	4	2.84	<0.5	21	76	55	6.23	7.34	1.08
546419	<5	<0.2	7.74	5690	<0.5	6	2.38	<0.5	36	76	152	7.72	8.52	0.77
546420	15	<0.2	7.13	3660	0.5	4	2.62	<0.5	44	100	135	7.40	6.01	1.26

Certification: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

Project: Fairchild - Olympic-MMM

Pamicon Developments Limited
711 - 675 W. Hastings St.
Vancouver, BC, V6B 1N4

Certificate Date: 15-Nov-93
Page Number: 3
Total Pages: 4
Account: BM

Sample Description	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	Cu %
545510	1760	<1	3.60	110	740	4	231	0.08	61	10	216	<10	
545511	720	<1	3.33	167	1590	<2	125	0.12	91	<10	214	30	
545512	910	<1	0.04	7	940	8	32	<0.01	2	<10	1568	<10	30.60
545513	270	<1	0.03	283	<10	4	15	<0.01	6	200	532	<10	11.70
545514	3830	<1	6.24	34	520	<2	136	0.04	31	10	84	<10	
545515	170	53	5.27	19	8030	<2	48	0.04	11	180	246	240	6.47
545516	445	16	3.88	150	2770	<2	31	0.03	8	20	120	150	2.17
545517	1495	19	4.37	24	2460	<2	34	0.06	<1	110	210	50	5.07
545518	385	<1	0.07	111	1300	<2	8	0.03	11	10	64	10	1.41
545622	3305	<1	2.39	52	1120	<2	33	0.16	97	<10	24	20	
545623	2130	1	1.19	23	1140	<2	19	0.21	261	10	34	20	
545624	585	<1	0.10	28	220	20	11	0.11	25	<10	12	20	
545625	2135	<1	2.06	25	720	<2	20	0.90	453	<10	174	10	
545626	1260	<1	2.66	34	790	<2	28	0.29	78	<10	36	30	
545848	530	<1	1.00	50	480	12	108	0.23	88	<10	<2	60	
545849	215	<1	1.60	23	380	10	77	0.33	67	<10	<2	60	
545850	1100	<1	2.25	28	350	10	62	0.27	50	<10	<2	40	
545851	180	1	2.12	25	560	10	87	0.35	92	<10	<2	60	
545886	2705	<1	0.57	25	850	<2	36	0.31	306	<10	10	<10	
545887	830	2	0.49	53	920	<2	12	0.27	92	<10	40	80	
546007	7265	<1	0.04	4	60	4	112	<0.01	25	<10	26	<10	
546008	3895	<1	1.84	41	510	<2	134	0.90	483	<10	292	<10	
546009	1850	1	2.45	64	240	<2	111	0.37	223	<10	174	<10	
546010	2665	<1	2.29	45	340	<2	123	0.70	354	<10	256	<10	
546011	1235	1	4.66	24	960	<2	32	1.09	178	<10	62	10	
546012	275	<1	0.04	7	170	<2	3	0.01	8	<10	6	<10	
546013	2940	<1	2.82	9	610	<2	20	0.15	37	<10	14	20	
546407	235	42	0.18	13	730	264	17	0.13	45	<10	148	60	1.25
546414	2445	6	0.13	23	770	<2	114	0.18	63	10	20	40	
546415	2745	7	0.15	21	750	<2	72	0.25	88	10	20	20	
546416	3505	3	0.19	18	1110	<2	90	0.20	94	10	16	30	
546417	2435	4	0.16	24	880	<2	202	0.13	62	10	16	80	
546418	2190	2	0.18	23	860	<2	168	0.46	235	10	20	30	
546419	2160	<1	0.19	26	1050	<2	185	0.46	260	<10	22	40	
546420	2095	3	0.17	29	820	<2	200	0.17	87	10	16	80	

Certification: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

Pamicon Developments Limited
711 - 675 W. Hastings St.
Vancouver, BC, V6B 1N4

Project: Fairchild - Olympic-MMM

Certificate Date: 15-Nov-93
Page Number: 2
Total Pages: 4
Account: BM

Sample Description	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
546421	20	<0.2	6.50	1690	<0.5	2	3.50	<0.5	29	82	693	7.24	6.35	1.58
546456	30	<0.2	4.43	10	<0.5	6	0.33	<0.5	164	111	128	9.97	0.12	4.42
546457	<5	<0.2	9.32	190	2.0	4	0.14	<0.5	139	91	>10000	6.29	1.64	4.73
546458	<5	<0.2	9.94	130	3.0	<2	0.11	<0.5	170	87	>10000	7.36	0.98	5.10
546459	<5	<0.2	3.74	80	1.0	4	0.09	<0.5	21	196	1860	1.86	0.49	2.50
546460	<5	<0.2	7.60	350	1.0	2	1.60	<0.5	116	119	205	8.46	3.82	2.28
546461	<5	<0.2	5.36	80	0.5	2	1.10	<0.5	21	203	31	4.66	0.69	1.48
546462	<5	<0.2	6.83	620	<0.5	6	2.67	<0.5	18	109	64	4.84	4.70	1.43
546463	25	<0.2	4.62	110	<0.5	<2	0.04	<0.5	233	149	8	14.95	0.16	3.52
546464	<5	<0.2	8.83	260	1.0	<2	2.65	0.5	35	76	10	1.75	1.99	1.49
546465	45	1.6	5.60	1310	0.5	34	3.89	<0.5	54	115	9000	15.53	2.59	2.57
546466	15	<0.2	6.68	660	<0.5	4	1.31	<0.5	54	91	7100	8.58	3.61	3.40
546467	20	<0.2	5.96	120	0.5	<2	2.38	0.5	42	105	>10000	8.16	0.51	3.58
546114	<5	<0.2	6.26	780	1.0	<2	5.24	<0.5	16	107	65	8.24	1.06	4.27
546115	145	1.8	7.82	60	<0.5	<2	0.48	<0.5	17	32	>10000	12.03	0.20	1.46
546116	130	6.0	6.82	130	<0.5	<2	0.28	<0.5	79	47	>10000	13.04	0.41	0.98
546117	35	0.6	3.01	170	<0.5	<2	13.17	<0.5	3	49	9864	7.69	0.29	3.48
546118	<5	<0.2	7.35	150	<0.5	<2	3.29	<0.5	76	89	1993	2.04	0.39	0.94
546119	<5	<0.2	8.21	500	0.5	<2	0.39	<0.5	<1	61	873	1.12	1.36	0.34

Certification: Hartt Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

Pamicon Developments Limited
711 - 675 W. Hastings St.
Vancouver, BC, V6B 1N4

Project: Fairchild - Olympic-MMM

Certificate Date: 15-Nov-93
Page Number: 4
Total Pages: 4
Account: BM

Sample Description	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	Cu %
546421	2540	3	0.16	26	790	<2	40	0.17	70	10	18	50	
546456	375	125	0.22	107	1780	<2	6	0.13	239	<10	38	100	
546457	475	6	0.37	195	1240	<2	10	0.17	79	<10	86	60	1.14
546458	675	8	0.29	294	1480	<2	8	0.12	64	<10	126	50	1.85
546459	110	<1	0.12	40	410	<2	5	0.12	27	<10	20	20	
546460	980	6	0.26	35	960	<2	11	0.31	103	10	26	10	
546461	590	<1	3.11	24	1080	<2	34	0.21	123	<10	26	10	
546462	1880	1	1.67	15	810	<2	19	0.19	63	10	12	70	
546463	385	14	0.61	112	100	<2	6	0.17	56	<10	36	<10	
546464	1830	1	4.46	13	730	<2	38	0.12	47	<10	12	50	
546465	1100	2	0.19	44	1050	<2	34	0.38	320	10	82	<10	
546466	2470	1	0.42	51	910	<2	17	0.28	108	<10	142	70	
546467	2350	<1	2.60	62	1190	<2	26	0.74	253	<10	288	20	2.13
546114	6695	9	1.85	30	630	<2	88	0.07	77	<10	98	20	
546115	660	3	3.48	29	600	<2	47	0.01	12	30	<2	<10	6.20
546116	430	5	2.79	44	700	6	37	0.02	19	10	40	10	5.56
546117	7860	3	1.34	38	450	4	50	0.01	23	<10	30	<10	
546118	2610	<1	4.93	11	310	<2	74	0.04	15	<10	18	<10	
546119	245	<1	4.17	6	800	4	73	0.07	39	<10	14	50	

Certification: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: PAMICON DEVELOPMENTS LIMITED
WESTMIN PROJECT
711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

A9317881

Comments: ATTN: M. STAMMERS/D. FULCHER CC: M. JONES CC: D. CAULFIELD

CERTIFICATE A9317881

PAMICON DEVELOPMENTS LIMITED

Project: OLYMPIC-FAIRCHILD
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-93.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	40	Dry, sieve to -80 mesh
285	40	ICP - HF digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	40	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
578	40	Ag ppm: 24 element, rock & core	AAS	0.5	200
573	40	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	40	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	40	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
561	40	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	40	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	40	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	40	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	40	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	40	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	40	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	40	K %: 24 element, rock & core	ICP-AES	0.01	20.0
570	40	Mg %: 24 element, rock & core	ICP-AES	0.01	20.0
568	40	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	40	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	40	Na %: 24 element, rock & core	ICP-AES	0.01	5.00
564	40	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	40	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	40	Pb ppm: 24 element, rock & core	AAS	2	10000
582	40	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	40	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	40	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	40	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	40	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
1006	40	La ppm: 20 element, rock ID	ICP-AES	10	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: [redacted]
WESTMIN PROJECT
711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Page Number :1-A
Total Pages :1
Certificate Date: 31-JUL-93
Invoice No. : I9317881
P.O. Number :
Account : BM W

Project : OLYMPIC-FAIRCHILD
Comments: ATTN: M. STAMMERS/D. FULCHER CC: M. JONES CC: D. CAULFIELD

CERTIFICATE OF ANALYSIS A9317881

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
5000E 5000N	201	285	40	< 0.2	4.53	3420	< 0.5	4	1.50	< 0.5	130	45	845	9.10	2.88	1.05
5000E 5025N	201	285	60	< 0.2	5.56	6010	< 0.5	< 2	1.65	< 0.5	99	51	789	9.41	3.11	1.18
5000E 5050N	201	285	70	< 0.2	5.80	6000	< 0.5	4	1.04	< 0.5	101	55	511	9.17	2.99	0.77
5000E 5075N	201	285	40	0.2	4.79	3730	< 0.5	< 2	3.28	1.0	191	44	760	8.51	2.65	2.14
5000E 5100N	201	285	45	0.8	3.13	1380	< 0.5	< 2	6.47	0.5	126	35	585	8.62	1.58	4.04
5000E 5125N	201	285	< 5	0.4	1.91	340	< 0.5	< 2	12.55	0.5	29	18	158	5.78	0.94	7.74
5000E 5150N	201	285	25	0.4	2.58	350	< 0.5	< 2	11.55	1.0	42	27	234	6.21	1.25	6.97
5000E 5175N	201	285	15	0.4	3.19	1540	< 0.5	< 2	5.37	< 0.5	61	33	474	7.57	1.78	3.00
5000E 5200N	201	285	< 5	0.6	3.53	1000	< 0.5	< 2	5.46	0.5	57	39	396	8.34	1.76	3.29
5000E 5225N	201	285	20	0.4	3.99	1440	< 0.5	< 2	3.08	0.5	57	45	325	9.99	2.22	1.96
5000E 5250N	201	285	55	0.2	4.87	4120	< 0.5	< 2	1.48	< 0.5	66	48	420	9.04	2.82	1.00
5000E 5275N	201	285	45	0.4	3.94	960	< 0.5	< 2	5.06	0.5	43	40	343	8.08	2.22	3.25
5000E 5300N	201	285	50	0.2	5.26	2950	< 0.5	< 2	1.41	< 0.5	109	53	284	8.20	2.70	0.75
5000E 5325N	201	285	40	< 0.2	5.42	4660	< 0.5	< 2	1.05	< 0.5	71	50	370	8.59	3.02	0.57
5000E 5350N	201	285	90	< 0.2	6.20	5550	< 0.5	< 2	0.70	< 0.5	86	56	659	8.59	3.28	0.63
5000E 5375N	201	285	65	< 0.2	5.08	4340	< 0.5	< 2	1.19	< 0.5	81	47	341	8.14	2.72	0.65
5000E 5400N	201	285	535	0.4	3.84	1290	< 0.5	2	3.68	0.5	57	40	9290	9.69	2.27	1.83
5050E 5425N	201	285	70	< 0.2	4.66	2650	< 0.5	< 2	0.90	0.5	55	45	1000	9.94	2.42	0.64
5050E 5475N	201	285	60	< 0.2	4.96	3330	< 0.5	< 2	0.88	< 0.5	49	46	577	8.20	2.68	0.54
5050E 5500N	201	285	35	< 0.2	5.40	5280	< 0.5	< 2	0.81	< 0.5	33	52	377	7.83	2.65	0.56
5050E 5525N	201	285	30	< 0.2	4.83	4910	< 0.5	< 2	0.87	< 0.5	28	46	593	7.19	2.49	0.55
5050E 5600N	201	285	60	< 0.2	5.05	3510	< 0.5	8	2.16	< 0.5	85	48	554	8.73	3.21	1.13
5050E 5625N	201	285	40	< 0.2	4.55	3750	< 0.5	< 2	6.51	1.0	61	44	437	9.04	2.74	3.83
5050E 5650N	201	285	75	0.2	5.56	2190	< 0.5	2	2.55	0.5	92	52	706	8.79	3.29	1.77
5050E 5675N	201	285	< 5	< 0.2	5.24	3630	< 0.5	2	0.77	< 0.5	17	51	132	6.84	2.31	0.58
5050E 5700N	201	285	30	< 0.2	5.13	2400	< 0.5	2	0.39	< 0.5	13	58	69	4.71	1.74	0.44
5050E 5725N	201	285	5	< 0.2	6.12	2370	< 0.5	4	1.17	< 0.5	32	61	132	6.32	2.55	0.98
5050E 5750N	201	285	< 5	< 0.2	5.56	2040	< 0.5	2	0.80	< 0.5	23	61	89	6.27	2.15	0.59
5050E 5775N	201	285	35	< 0.2	5.17	2150	< 0.5	< 2	0.78	< 0.5	29	53	303	6.64	2.39	0.63
5050E 5800N	201	285	760	< 0.2	5.39	1820	< 0.5	2	0.95	0.5	30	55	195	6.50	2.27	0.72
5375N 5275E	201	285	< 5	2.4	2.65	360	< 0.5	< 2	9.40	0.5	19	27	76	6.31	1.59	6.30
5375N 5350E	201	285	15	< 0.2	5.45	6800	< 0.5	2	0.52	< 0.5	38	58	132	6.84	2.21	0.60
5375N 5425E	201	285	< 5	1.6	3.52	750	< 0.5	< 2	8.23	1.0	13	34	38	4.96	2.08	5.59
5375N 5500E	201	285	< 5	2.8	2.66	290	1.0	< 2	9.66	1.0	34	28	190	7.90	1.78	6.49
5375N 5725E	201	285	< 5	0.6	6.28	3150	< 0.5	2	0.40	< 0.5	49	59	130	7.34	3.25	0.72
5600N 5200E	201	285	10	0.4	4.83	4110	< 0.5	< 2	4.68	0.5	36	45	175	6.27	2.93	3.20
5600N 5275E	201	285	25	0.4	5.43	4290	< 0.5	< 2	0.62	< 0.5	65	49	281	7.65	3.04	0.64
5600N 5350E	201	285	40	< 0.2	5.25	2900	< 0.5	2	0.47	< 0.5	49	55	362	7.86	2.14	0.58
5600N 5425E	201	285	10	2.0	1.68	1160	< 0.5	< 2	13.50	1.5	8	13	60	10.70	0.51	8.96
5600N 5500E	201	285	15	0.6	1.76	330	< 0.5	< 2	13.85	1.0	< 1	17	33	4.09	0.79	8.46

CERTIFICATION: Hart Bichler

Barium results may be low due to precipitation

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: [redacted] FAMICON DEVELOPMENTS LIMITED
WESTMIN PROJECT
711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Page Number : 1-B
Total Pages : 1
Certificate Date: 31-JUL-93
Invoice No. : I9317881
P.O. Number :
Account : BM W

Project : OLYMPIC-FAIRCHILD
Comments: ATTN: M. STAMMERS/D. FULCHER CC: M. JONES CC: D. CAULFIELD

CERTIFICATE OF ANALYSIS A9317881

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	La ppm ICP		
5000E 5000N	201 285	5850	9	0.16	58	1240	32	58	0.14	84	< 10	56	40		
5000E 5025N	201 285	8100	9	0.15	44	1200	12	91	0.15	83	< 10	44	40		
5000E 5050N	201 285	8180	8	0.16	43	1160	14	93	0.14	84	< 10	46	50		
5000E 5075N	201 285	4730	9	0.14	62	820	40	67	0.12	75	< 10	50	30		
5000E 5100N	201 285	6200	7	0.12	67	1020	144	26	0.09	83	< 10	84	< 10		
5000E 5125N	201 285	3570	2	0.07	37	660	62	23	0.06	59	< 10	46	< 10		
5000E 5150N	201 285	4180	3	0.10	41	720	54	25	0.07	69	< 10	52	< 10		
5000E 5175N	201 285	5350	7	0.13	49	1500	44	33	0.09	73	< 10	54	< 10		
5000E 5200N	201 285	4590	5	0.12	55	1280	78	27	0.11	89	< 10	60	< 10		
5000E 5225N	201 285	5750	6	0.14	48	1490	72	28	0.11	106	< 10	70	20		
5000E 5250N	201 285	5880	12	0.20	46	1540	32	81	0.14	91	< 10	62	40		
5000E 5275N	201 285	5360	7	0.15	46	1170	32	28	0.12	107	< 10	72	10		
5000E 5300N	201 285	5810	8	0.24	43	1400	14	69	0.16	84	< 10	56	40		
5000E 5325N	201 285	6480	11	0.17	37	1260	< 2	103	0.14	77	< 10	34	40		
5000E 5350N	201 285	6200	11	0.28	38	1300	4	118	0.17	84	< 10	38	50		
5000E 5375N	201 285	6290	8	0.21	30	1480	4	106	0.13	70	< 10	38	40		
5000E 5400N	201 285	7360	25	0.20	41	1260	36	345	0.13	95	< 10	58	20		
5050E 5425N	201 285	8860	11	0.18	45	1740	42	39	0.14	89	< 10	68	30		
5050E 5475N	201 285	4080	12	0.21	26	1650	10	71	0.15	77	< 10	76	40		
5050E 5500N	201 285	2290	12	0.32	22	1600	8	72	0.18	85	< 10	70	40		
5050E 5525N	201 285	2450	11	0.33	22	1030	12	76	0.17	77	< 10	78	30		
5050E 5600N	201 285	6410	14	0.19	52	1430	12	105	0.13	87	< 10	58	40		
5050E 5625N	201 285	5510	8	0.17	56	1340	26	78	0.11	119	< 10	46	< 10		
5050E 5650N	201 285	6020	13	0.20	78	1190	50	38	0.13	125	< 10	50	30		
5050E 5675N	201 285	2140	4	0.31	20	1570	32	50	0.22	96	< 10	108	40		
5050E 5700N	201 285	1245	7	0.42	16	1840	20	70	0.30	128	< 10	58	30		
5050E 5725N	201 285	4780	4	0.48	30	1230	20	75	0.22	100	< 10	86	40		
5050E 5750N	201 285	2640	3	0.49	24	1410	22	72	0.28	111	< 10	68	30		
5050E 5775N	201 285	4380	4	0.37	31	1320	12	58	0.19	82	< 10	60	40		
5050E 5800N	201 285	3840	7	0.51	28	1130	20	93	0.24	93	< 10	86	40		
5375N 5275E	201 285	2000	< 1	0.11	43	400	80	24	0.07	38	< 10	152	< 10		
5375N 5350E	201 285	2360	6	0.44	27	1640	46	98	0.27	120	< 10	110	30		
5375N 5425E	201 285	2400	< 1	0.17	28	520	56	28	0.10	45	< 10	108	< 10		
5375N 5500E	201 285	1980	< 1	0.15	65	550	90	27	0.06	57	< 10	178	< 10		
5375N 5725E	201 285	4250	7	0.22	53	1000	26	31	0.17	79	< 10	58	50		
5600N 5200E	201 285	4260	3	0.27	37	900	62	77	0.14	77	< 10	230	10		
5600N 5275E	201 285	3580	6	0.18	43	980	70	63	0.15	81	< 10	104	40		
5600N 5350E	201 285	3260	5	0.40	40	1370	36	74	0.24	100	< 10	100	40		
5600N 5425E	201 285	9600	< 1	0.20	15	810	70	35	0.08	69	< 10	106	< 10		
5600N 5500E	201 285	4480	< 1	0.15	11	330	16	28	0.06	44	< 10	44	< 10		

CERTIFICATION: Hart Bichler

Barium results may be low due to precipitation

APPENDIX F

STATISTICAL ANALYSIS

INTEROFFICE MEMO

DATE : JAN 25/1994 COPIES TO:

FROM : S. DYKES

TO : PROJECT FILE

SUBJECT : 1993 FAIRCHILD PROJECT STATISTICS.

Statistic tables for all rock and soil sample data have been completed. Data includes all samples taken during the 1992 and 1993 field programs. Four tables for each sample type have been produced. In addition data has been sorted according to property.

TABLE 1 Consists of all samples that are above detection limit. Length weighting is not used as all samples are considered to be the same length.

TABLE 2 Consists of all samples including those below detection limit. Samples below the detection limit are assigned a value equal to 1/2 the detection limit. Length weighting is not used as all samples are considered to be the same length.

TABLE 3 Consists of log transformed data of all samples that are above detection limit. Length weighting is not used as all samples are considered to be the same length.

TABLE 4 Consists of log transformed data of all samples including those below detection limit. Samples detection limit are assigned a value equal to 1/2 the detection limit. Length weighting is not used as all samples are considered to be the same length.

THRESHOLDS USED ON MAPS.

Thresholds for colouring samples on the various geochemical maps were established using the log transformed statistics of samples that are above detection limit. **Samples below detection limit were ignored.** Values for the 5, 15, 50, 84 and 95 percentile from the cummulative probability diagram were used. Some rounding of values was done in order to make thresholds realistic. In the case of copper values only the geochemical copper (CuG) was used for the thresholds, assay copper (CuA) was ignored as all assay values were deemed to be extremely anomalous.

Respectfully submitted

Shaun M. Dykes

Shaun M. Dykes
Project Geologist

TABLE #1

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | Detection Limit Samples Ignored | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93NORM

Element	ALL DATA mean	stand. Dev.	95 %	1249 Samples	ROCK TYPE -> HOOV mean	stand. Dev.	95 %	468 Samples	ROCK TYPE -> EAGL mean	stand. Dev.	95 %	152 Samples
AU ppb	56.29	126.44	193.5	171	73.94	148.03	271.25	85	34.00	26.53	89.38	5
AG PPM	0.55	0.49	1.59	104	0	0	0	0	0.52	0.36	1.55	16
AL %	6.35	1.4	8.43	1249	6.48	1.28	8.43	468	8.05	1.47	11.06	152
BA PPM	719.01	560.11	1312.84	1249	658.37	152.25	892.46	468	860.07	446.54	1740.00	152
BE PPM	1.55	1.01	3.4	981	1.43	0.9	3.3	187	1.98	1.29	4.41	144
BI PPM	5.33	7.43	9.98	526	10.44	16.1	38	90	3.71	2.35	8.35	89
CA %	1.74	4.09	4.46	1249	1.78	1.53	4.96	468	1.79	10.94	2.47	152
CD PPM	0.58	0.25	1.02	205	0.56	0.17	0.95	24	0.64	0.22	1.01	11
CO PPM	24.24	36.67	58.97	1246	20.91	28.41	39.43	466	19.42	13.10	50.40	152
CR PPM	71.37	17.62	96.22	1249	64.99	10.38	79.35	468	76.53	17.63	107.35	152
CUG PPM	195.97	654.93	745.39	1248	82.59	256.62	190.95	468	158.15	377.91	559.55	151
CUA %	1.86	0.24	2.15	2	1.86	0.24	2.15	2	0.00	0.00	0.00	0
FE %	3.83	1.27	6.14	1249	3.74	1.06	5.06	468	4.03	0.86	5.38	152
K %	1.93	0.49	2.79	1249	1.95	0.5	2.86	468	2.26	0.49	3.13	152
MG %	1.17	0.81	2.62	1249	1.26	0.78	3.08	468	1.14	0.33	1.77	152
MN PPM	1411.43	1151.75	3559.16	1249	1085.65	374.91	1717.6	468	1389.97	709.64	2693.33	152
MO PPM	2.45	2.38	6.91	787	2.44	2.18	5.88	429	1.83	1.12	4.09	89
NA %	0.91	0.56	2.03	1249	1.04	0.7	2.84	468	1.75	0.84	3.38	152
NI PPM	32.24	18.31	56.27	1249	29.35	11.87	41.16	468	30.74	7.95	47.01	152
P PPM	767.36	370.42	1227.73	1249	705.34	192.25	1024.74	468	782.96	252.13	1242.29	152
PB PPM	23.03	24.35	41.67	1225	21.12	10.11	45.35	467	25.81	65.09	57.61	135
SR PPM	83.07	33.91	143.62	1249	112.58	42.24	188.7	468	111.98	42.29	189.98	152
TI %	0.25	0.08	0.37	1249	0.24	0.08	0.36	468	0.27	0.07	0.37	152
V PPM	90.6	22.05	120.95	1249	90.5	20.35	124.28	468	90.52	24.42	117.92	152
W PPM	10.38	2.49	10.36	79	10	0	10	14	0.00	0.00	0.00	0
ZN PPM	133.51	117.22	315.12	1249	135.13	68.52	267.75	468	105.78	101.41	285.00	152
LA PPM	45.96	42.06	86.18	1191	40.62	22.12	69.43	442	74.93	86.63	288.00	152
U PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR	1.52	0.52	2.28	321	1.49	0.54	2.49	36	1.40	0.52	2.24	129
CCR	0.78	3.94	1.94	1245	1.39	6.49	4.88	466	0.56	0.84	1.74	151
FTR	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
PTR	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
LTR	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
WMT	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93NORM

		ROCK TYPE -> FAIR			199	ROCK TYPE -> PLUM			134	ROCK TYPE -> SLAB			107
	element	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	12.5	6.2	24.98	14	15.71	12.94	43.95	7	14.35	6.81	25.28	23
AG	PPM	0.32	0.13	0.61	10	0.66	0.68	2.3	13	0.44	0.22	0.99	39
AL	%	5.84	1.02	7	199	6.66	1.5	9.58	134	5.99	1.28	7.95	107
BA	PPM	561.26	126.54	741.56	199	673.73	148.41	945.56	134	732.24	424.68	1565.00	107
BE	PPM	1.61	0.71	2.86	152	1.29	0.71	2.81	96	1.53	1.00	3.45	104
BI	PPM	3.88	1.92	7.71	67	4	2.05	7.82	84	3.31	1.88	7.73	49
CA	%	1.62	1.32	4.21	199	1.6	1.07	3.79	134	1.65	0.69	2.82	107
CD	PPM	0.6	0.27	1.35	15	0.54	0.22	0.55	50	0.73	0.46	1.48	24
CO	PPM	16.71	36.39	32.05	199	17.02	5.53	27.75	134	26.45	12.76	48.65	107
CR	PPM	70.75	21.93	81.35	199	63.16	10.24	77.91	134	68.15	19.25	95.90	107
CUG	PPM	63.67	86.19	220.5	199	68.11	47.36	154.33	134	140.62	119.00	406.50	107
CUA	%	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE	%	3.59	0.98	5.41	199	3.7	0.81	4.94	134	4.03	1.17	5.50	107
K	%	1.83	0.49	2.65	199	1.89	0.42	2.55	134	1.95	0.59	3.08	107
MG	%	1.14	0.74	2.9	199	1.23	0.53	2.37	134	0.95	0.29	1.29	107
MN	PPM	1371.11	1442.58	4905.83	199	1090.07	573.46	2047.5	134	1870.79	861.55	3465.00	107
MO	PPM	1.49	0.72	2.89	61	1.53	1.17	3.96	36	2.10	1.29	4.85	97
NA	%	0.74	0.47	1.64	199	0.96	0.43	1.39	134	0.85	0.49	1.91	107
NI	PPM	25.61	11.25	45.15	199	28.81	7.24	43.67	134	34.98	13.93	55.39	107
P	PPM	618.84	227.85	1023.09	199	675	187.22	1007.25	134	877.57	236.61	1175.47	107
PB	PPM	23.3	8.38	37.37	197	20.99	8.51	33.59	134	29.19	15.69	53.07	104
SR	PPM	65.49	14.11	86.01	199	108.94	40.28	189.54	134	72.27	18.76	102.20	107
TI	%	0.26	0.08	0.35	199	0.27	0.07	0.38	134	0.21	0.08	0.33	107
V	PPM	97.03	33.12	139.67	199	96.72	21.01	127.79	134	77.96	16.77	106.61	107
W	PPM	10.46	2.73	10.45	65	0	0	0	0	0.00	0.00	0.00	0
ZN	PPM	111.22	41.52	186.47	199	133.57	65.37	264.75	134	248.04	280.59	691.83	107
LA	PPM	31.72	11.28	50.74	186	42	17.65	71.63	130	42.43	17.71	77.23	107
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		1.34	0.46	2.02	23	1.7	0.41	2.29	44	1.72	0.54	2.71	28
CCR		0.42	0.32	1.04	199	0.41	0.29	0.96	134	0.52	0.28	1.10	107
FTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
PTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
LTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
WMT		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93NORM

	element	ROCK TYPE -> OLYM mean	stand. Dev.	95 %	40 Samples	0.00 mean	stand. Dev.	95 %	0 Samples	0.000 mean	stand. Dev.	95 %	0 Samples
AU	ppb	78.44	151.02	536	32	0	0	0	0	0.00	0.00	0.00	0
AG	PPM	0.77	0.76	2.4	20	0	0	0	0	0.00	0.00	0.00	0
AL	%	4.52	1.23	6.12	40	0	0	0	0	0.00	0.00	0.00	0
BA	PPM	2831.25	1762.96	6075	40	0	0	0	0	0.00	0.00	0.00	0
BE	PPM	1	1	0.99	1	0	0	0	0	0.00	0.00	0.00	0
BI	PPM	2.92	1.69	7.74	13	0	0	0	0	0.00	0.00	0.00	0
CA	%	3.69	3.96	13	40	0	0	0	0	0.00	0.00	0.00	0
CD	PPM	0.72	0.3	1.43	18	0	0	0	0	0.00	0.00	0.00	0
CO	PPM	58.05	37.54	128.49	39	0	0	0	0	0.00	0.00	0.00	0
CR	PPM	44.58	11.99	59.58	40	0	0	0	0	0.00	0.00	0.00	0
CUG	PPM	585.72	1415.03	980	40	0	0	0	0	0.00	0.00	0.00	0
CUA	%	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE	%	7.75	1.48	10.02	40	0	0	0	0	0.00	0.00	0.00	0
K	%	2.34	0.68	3.29	40	0	0	0	0	0.00	0.00	0.00	0
MG	%	2.38	2.48	7.8	40	0	0	0	0	0.00	0.00	0.00	0
MN	PPM	4815.5	1991.12	8500	40	0	0	0	0	0.00	0.00	0.00	0
MO	PPM	8.11	4.25	13.25	35	0	0	0	0	0.00	0.00	0.00	0
NA	%	0.23	0.12	0.49	40	0	0	0	0	0.00	0.00	0.00	0
NI	PPM	39.92	15.01	66	40	0	0	0	0	0.00	0.00	0.00	0
P	PPM	1187	365	1727	40	0	0	0	0	0.00	0.00	0.00	0
PB	PPM	38.77	28.86	84.35	39	0	0	0	0	0.00	0.00	0.00	0
SR	PPM	67.57	52.39	112.5	40	0	0	0	0	0.00	0.00	0.00	0
TI	%	0.15	0.06	0.28	40	0	0	0	0	0.00	0.00	0.00	0
V	PPM	84.8	20.31	124.8	40	0	0	0	0	0.00	0.00	0.00	0
W	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
ZN	PPM	75.55	38.88	152	40	0	0	0	0	0.00	0.00	0.00	0
LA	PPM	35.17	10.04	48.96	29	0	0	0	0	0.00	0.00	0.00	0
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
CCR		1.08	2.5	2.11	39	0	0	0	0	0.00	0.00	0.00	0
FTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
PTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
LTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
WMT		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #2

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93HALF

		ALL DATA			1249	ROCK TYPE -> HOOV			268	ROCK TYPE -> EAGL			152
Element		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	9.87	50.32	28.02	1248	25.16	89.75	103	268	3.54	7.40	3.96	152
AG	PPM	0.14	0.19	0.37	1249	0.1	0	0.1	268	0.14	0.18	0.39	152
AL	%	6.35	1.4	8.43	1249	6.17	1.1	7.99	268	8.05	1.47	11.06	152
BA	PPM	719.01	560.11	1312.84	1249	628.02	230.38	1096.02	268	860.07	446.54	1740.00	152
BE	PPM	1.27	1.04	3	1249	1.07	0.93	2.94	268	1.88	1.31	4.41	152
BI	PPM	2.83	5.27	8.71	1249	4.17	10.34	12.3	268	2.59	2.24	7.92	152
CA	%	1.74	4.09	4.46	1249	2.21	2.01	7.22	268	1.79	10.94	2.47	152
CD	PPM	0.3	0.16	0.51	1249	0.28	0.1	0.49	268	0.28	0.12	0.49	152
CO	PPM	24.19	36.64	58.91	1249	38.76	64.8	99	268	19.42	13.10	50.40	152
CR	PPM	71.37	17.62	96.22	1249	76.26	16.92	112.43	268	76.53	17.63	107.35	152
CUG	PPM	195.81	654.69	744.81	1249	538.12	1188.78	2060	268	157.11	376.88	558.60	152
CUA	%	1.86	0.24	2.15	2	1.86	0.24	2.15	2	0.00	0.00	0.00	0
FE	%	3.83	1.27	6.14	1249	3.96	1.31	5.69	268	4.03	0.86	5.38	152
K	%	1.93	0.49	2.79	1249	1.91	0.51	2.83	268	2.26	0.49	3.13	152
MG	%	1.17	0.81	2.62	1249	1.33	1.01	4.38	268	1.14	0.33	1.77	152
MN	PPM	1411.43	1151.75	3559.16	1249	1608.66	880.66	3140	268	1389.97	709.64	2693.33	152
MO	PPM	1.73	2.11	5.57	1249	2.67	2.52	6.85	268	1.28	1.08	2.99	152
NA	%	0.91	0.56	2.03	1249	0.78	0.29	1.26	268	1.75	0.84	3.38	152
NI	PPM	32.24	18.31	56.27	1249	40.42	29.48	87	268	30.74	7.95	47.01	152
P	PPM	767.36	370.42	1227.73	1249	884.96	620.19	1329	268	782.96	252.13	1242.29	152
PB	PPM	22.61	24.3	41.5	1249	17.95	9.19	34.42	268	23.03	61.84	56.45	152
SR	PPM	83.07	33.91	143.62	1249	78.54	36.62	105.6	268	111.98	42.29	189.98	152
TI	%	0.25	0.08	0.37	1249	0.23	0.07	0.36	268	0.27	0.07	0.37	152
V	PPM	90.6	22.05	120.95	1249	84.56	17.54	114.14	268	90.52	24.42	117.92	152
W	PPM	5.34	1.45	8.56	1249	5.26	1.11	7.97	268	5.00	0.00	5.00	152
ZN	PPM	133.51	117.22	315.12	1249	105.58	56.43	184.8	268	105.78	101.41	285.00	152
LA	PPM	44.06	41.97	85.02	1249	42.16	26.04	85.06	268	74.93	86.63	288.00	152
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		0.76	0.52	1.97	1249	0.63	0.39	1.69	268	1.26	0.58	2.21	152
CCR		0.78	3.93	1.94	1249	2.01	8.28	5.93	268	0.56	0.84	1.74	152
FTR		0.5	0.06	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152
PTR		0.5	0.07	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152
LTR		0.5	0.03	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152
WMT		0.5	0.02	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93HALF

	element	ROCK TYPE -> BONN 417				ROCK TYPE -> FAIR 199				ROCK TYPE -> PLUM 134			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	2.57	0.79	2.56	416	3.2	3.04	9.91	199	3.19	4.17	4.15	134
AG	PPM	0.11	0.09	0.12	417	0.11	0.06	0.2	199	0.15	0.27	0.43	134
AL	%	6.29	1.16	7.8	417	5.84	1.02	7	199	6.66	1.50	9.58	134
BA	PPM	506.81	106.81	735.09	417	561.26	126.54	741.56	199	673.73	148.41	945.56	134
BE	PPM	1.31	1.07	3.35	417	1.29	0.85	2.59	199	1.00	0.76	2.54	134
BI	PPM	2.41	2.74	8.34	417	1.97	1.76	6.1	199	2.88	2.18	7.82	134
CA	%	1.6	1.56	5.18	417	1.62	1.32	4.21	199	1.60	1.07	3.79	134
CD	PPM	0.3	0.12	0.51	417	0.28	0.12	0.49	199	0.36	0.19	0.50	134
CO	PPM	18.69	10.22	33.84	417	16.71	36.39	32.05	199	17.02	5.53	27.75	134
CR	PPM	71.77	15.61	102.37	417	70.75	21.93	81.35	199	63.16	10.24	77.91	134
CUG	PPM	71.67	43.01	151.7	417	63.67	86.19	220.5	199	68.11	47.36	154.33	134
CUA	%	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE	%	3.4	0.84	4.59	417	3.59	0.98	5.41	199	3.70	0.81	4.94	134
K	%	1.84	0.31	2.35	417	1.83	0.49	2.65	199	1.89	0.42	2.55	134
MG	%	1.17	0.81	3.4	417	1.14	0.74	2.9	199	1.23	0.53	2.37	134
MN	PPM	1134.44	637.1	1939.72	417	1371.11	1442.58	4905.83	199	1090.07	573.46	2047.50	134
MO	PPM	1.43	1.38	3.14	417	0.8	0.61	2.06	199	0.78	0.76	1.91	134
NA	%	0.79	0.29	1.22	417	0.74	0.47	1.64	199	0.96	0.43	1.39	134
NI	PPM	30.98	11.94	45.04	417	25.61	11.25	45.15	199	28.81	7.24	43.67	134
P	PPM	859.42	201.14	1128.46	417	618.84	227.85	1023.09	199	675.00	187.22	1007.25	134
PB	PPM	17.63	8.73	31.6	417	23.08	8.63	37.1	199	20.99	8.51	33.59	134
SR	PPM	83.87	36.73	171.62	417	65.49	14.11	86.01	199	108.94	40.28	189.54	134
TI	%	0.26	0.06	0.38	417	0.26	0.08	0.35	199	0.27	0.07	0.38	134
V	PPM	78.93	16.13	112.56	417	97.03	33.12	139.67	199	96.72	21.01	127.79	134
W	PPM	5	0	5	417	6.78	3	10.41	199	5.00	0.00	5.00	134
ZN	PPM	94.84	50.68	162.77	417	111.22	41.52	186.47	199	133.57	65.37	264.75	134
LA	PPM	38.98	26.68	63.48	417	29.97	12.75	48.63	199	40.90	18.49	71.48	134
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		0.7	0.47	1.92	349	0.61	0.33	1.53	199	0.89	0.61	2.06	134
CCR		0.37	0.28	0.77	417	0.42	0.32	1.04	199	0.41	0.29	0.96	134
FTR		0.5	0	0.5	417	0.52	0.15	0.51	199	0.50	0.00	0.50	134
PTR		0.5	0	0.5	417	0.52	0.17	0.51	199	0.50	0.00	0.50	134
LTR		0.5	0	0.5	417	0.51	0.08	0.51	199	0.50	0.00	0.50	134
WMT		0.5	0	0.5	417	0.5	0.04	0.51	199	0.50	0.00	0.50	134

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93HALF

	element	ROCK TYPE -> SLAB mean	stand. Dev.	95 %	107 Samples	ROCK TYPE -> OLYM mean	stand. Dev.	95 %	40 Samples	0.000 mean	stand. Dev.	95 %	0 Samples
AU	ppb	5.05	5.8	19.74	107	63.25	138.45	105	40	0.00	0.00	0.00	0
AG	PPM	0.22	0.21	0.6	107	0.44	0.63	2.1	40	0.00	0.00	0.00	0
AL	%	5.99	1.28	7.95	107	4.52	1.23	6.12	40	0.00	0.00	0.00	0
BA	PPM	732.24	424.68	1565	107	2831.25	1762.96	6075	40	0.00	0.00	0.00	0
BE	PPM	1.49	1.01	3.41	107	0.27	0.12	0.27	40	0.00	0.00	0.00	0
BI	PPM	2.06	1.71	6.15	107	1.63	1.32	4.08	40	0.00	0.00	0.00	0
CA	%	1.65	0.69	2.82	107	3.69	3.96	13	40	0.00	0.00	0.00	0
CD	PPM	0.36	0.29	1	107	0.46	0.31	1.04	40	0.00	0.00	0.00	0
CO	PPM	26.45	12.76	48.65	107	56.61	38.14	128.25	40	0.00	0.00	0.00	0
CR	PPM	68.15	19.25	95.9	107	44.58	11.99	59.58	40	0.00	0.00	0.00	0
CUG	PPM	140.62	119	406.5	107	585.72	1415.03	980	40	0.00	0.00	0.00	0
CUA	%	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE	%	4.03	1.17	5.5	107	7.75	1.48	10.02	40	0.00	0.00	0.00	0
K	%	1.95	0.59	3.08	107	2.34	0.68	3.29	40	0.00	0.00	0.00	0
MG	%	0.95	0.29	1.29	107	2.38	2.48	7.8	40	0.00	0.00	0.00	0
MN	PPM	1870.79	861.55	3465	107	4815.5	1991.12	8500	40	0.00	0.00	0.00	0
MO	PPM	1.95	1.31	4.17	107	7.16	4.7	13	40	0.00	0.00	0.00	0
NA	%	0.85	0.49	1.91	107	0.23	0.12	0.49	40	0.00	0.00	0.00	0
NI	PPM	34.98	13.93	55.39	107	39.92	15.01	66	40	0.00	0.00	0.00	0
P	PPM	877.57	236.61	1175.47	107	1187	365	1727	40	0.00	0.00	0.00	0
PB	PPM	28.4	16.15	52.87	107	37.83	29.1	82.5	40	0.00	0.00	0.00	0
SR	PPM	72.27	18.76	102.2	107	67.57	52.39	112.5	40	0.00	0.00	0.00	0
TI	%	0.21	0.08	0.33	107	0.15	0.06	0.28	40	0.00	0.00	0.00	0
V	PPM	77.96	16.77	106.61	107	84.8	20.31	124.8	40	0.00	0.00	0.00	0
W	PPM	5	0	5	107	5	0	5	40	0.00	0.00	0.00	0
ZN	PPM	248.04	280.59	691.83	107	75.55	38.88	152	40	0.00	0.00	0.00	0
LA	PPM	42.43	17.71	77.23	107	26.88	15.96	49.33	40	0.00	0.00	0.00	0
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		0.82	0.6	2.15	107	0.5	0	0.5	40	0.00	0.00	0.00	0
CCR		0.52	0.28	1.1	107	1.07	2.47	2.1	40	0.00	0.00	0.00	0
FTR		0.5	0	0.5	107	0.5	0	0.5	40	0.00	0.00	0.00	0
PTR		0.5	0	0.5	107	0.5	0	0.5	40	0.00	0.00	0.00	0
LTR		0.5	0	0.5	107	0.5	0	0.5	40	0.00	0.00	0.00	0
WMT		0.5	0	0.5	107	0.5	0	0.5	40	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #3

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | Detection Limit Samples Ignored | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93LNORM

		ALL DATA			1249	ROCK TYPE -> HOOV			468	ROCK TYPE -> EAGL			152
Element		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	44.47	1.08	195.48	171	61.26	1.14	329.99	85	32.82	0.66	85.33	5
AG	PPM	0.52	0.63	1.64	104	0	0	0	0	0.52	0.60	1.49	16
AL	%	6.37	0.24	8.56	1249	6.5	0.22	8.4	468	8.05	0.17	11.17	152
BA	PPM	695.13	0.41	1326.29	1249	660.21	0.26	880.42	468	849.87	0.40	1714.84	152
BE	PPM	1.56	0.64	3.44	981	1.44	0.63	3.48	187	2.00	0.67	4.50	144
BI	PPM	4.98	0.67	11.38	526	9.33	0.89	36.44	90	3.65	0.54	8.91	89
CA	%	1.61	0.7	4.44	1249	1.74	0.66	4.88	468	1.00	0.69	1.92	152
CD	PPM	0.57	0.28	1.02	205	0.56	0.23	0.92	24	0.63	0.31	1.01	11
CO	PPM	22.56	0.66	57.82	1246	19.83	0.52	40.29	466	19.09	0.54	48.72	152
CR	PPM	71.41	0.24	96.4	1249	65.05	0.17	79.22	468	76.50	0.22	108.79	152
CUG	PPM	134.26	1.1	771.9	1248	69.52	0.71	177.01	468	125.34	1.26	607.21	151
CUA	%	1.86	0.13	2.11	2	1.86	0.13	2.11	2	0.00	0.00	0.00	0
FE	%	3.83	0.3	6.2	1249	3.74	0.27	5.07	468	4.03	0.22	5.39	152
K	%	1.94	0.27	2.8	1249	1.95	0.27	2.85	468	2.26	0.23	3.13	152
MG	%	1.14	0.43	2.56	1249	1.24	0.43	2.8	468	1.14	0.28	1.77	152
MN	PPM	1382.91	0.63	3612.97	1249	1090.54	0.37	1709.2	468	1386.64	0.46	2726.55	152
MO	PPM	2.34	0.67	6.7	787	2.36	0.66	6.03	429	1.81	0.52	4.29	89
NA	%	0.91	0.54	2.06	1249	1.02	0.51	2.84	468	1.74	0.44	3.36	152
NI	PPM	31.81	0.38	56.5	1249	29.19	0.28	41.91	468	30.77	0.26	47.06	152
P	PPM	765.03	0.36	1224.72	1249	707.34	0.29	1022.7	468	784.73	0.34	1242.46	152
PB	PPM	22.96	0.59	43.32	1225	21.26	0.47	42.97	467	22.08	0.97	59.54	135
SR	PPM	82.69	0.33	146.36	1249	112.69	0.38	194.02	468	112.39	0.39	191.05	152
TI	%	0.25	0.32	0.37	1249	0.24	0.29	0.37	468	0.27	0.23	0.37	152
V	PPM	90.63	0.23	121.3	1249	90.73	0.25	124.93	468	90.29	0.22	119.16	152
W	PPM	10.34	0.14	10.22	79	0	0	10	14	0.00	0.00	0.00	0
ZN	PPM	130.59	0.58	321.21	1249	134.51	0.44	267.38	468	103.04	0.76	294.77	152
LA	PPM	44.67	0.55	89.38	1191	40.75	0.48	70.37	442	71.00	0.78	281.85	152
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		1.54	0.42	2.28	321	1.5	0.42	2.41	36	1.41	0.43	2.30	129
CCR		0.58	0.84	1.92	1245	0.94	1.06	4.77	466	0.52	0.92	1.86	151
FTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
PTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
LTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
WMT		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93LNORM

	element	ROCK TYPE -> BONN			349	ROCK TYPE -> FAIR			199	ROCK TYPE -> PLUM			134
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	9.01	0.43	16.16	5	12.55	0.51	25.81	14	15.33	0.72	45.19	7
AG	PPM	0.67	0.64	1.5	6	0.32	0.4	0.62	10	0.62	0.78	2.46	13
AL	%	6.24	0.18	7.79	349	5.89	0.26	6.92	199	6.68	0.25	9.46	134
BA	PPM	589.05	0.16	716.76	349	563.86	0.26	754.61	199	674.96	0.24	949.20	134
BE	PPM	1.47	0.66	4.02	297	1.64	0.52	2.72	152	1.30	0.58	2.72	96
BI	PPM	5.6	0.6	11.58	134	3.88	0.48	8.02	67	4.00	0.50	8.38	84
CA	%	1.27	0.54	2.65	349	1.6	0.68	4.22	199	1.58	0.54	3.67	134
CD	PPM	0.51	0.09	0.51	63	0.59	0.31	1.18	15	0.53	0.22	0.52	50
CO	PPM	17.47	0.52	40.73	349	14.85	0.52	32.06	199	17.04	0.32	28.56	134
CR	PPM	72.94	0.18	92.99	349	70.45	0.22	80.78	199	63.27	0.19	79.25	134
CUG	PPM	46.2	0.39	93.06	349	57.82	0.7	185.25	199	68.40	0.68	156.98	134
CUA	%	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE	%	3.32	0.23	4.45	349	3.61	0.3	5.41	199	3.71	0.26	4.94	134
K	%	1.83	0.18	2.31	349	1.85	0.34	2.65	199	1.89	0.25	2.54	134
MG	%	0.98	0.28	1.48	349	1.11	0.47	2.53	199	1.22	0.35	2.43	134
MN	PPM	884.21	0.45	1693.81	349	1282.26	0.66	4152.51	199	1083.91	0.42	2089.49	134
MO	PPM	1.74	0.54	4	240	1.48	0.41	2.88	61	1.47	0.48	3.25	36
NA	%	0.8	0.33	1.26	349	0.74	0.5	1.69	199	0.96	0.39	1.39	134
NI	PPM	29.69	0.37	52.66	349	25.4	0.32	45.92	199	28.82	0.25	43.08	134
P	PPM	708.79	0.27	1026.24	349	621.46	0.39	1019.64	199	676.65	0.30	1008.38	134
PB	PPM	22.76	0.33	37.6	349	23.47	0.4	38.13	197	21.06	0.40	33.06	134
SR	PPM	79.15	0.2	105.08	349	65.55	0.22	85.4	199	108.79	0.35	186.26	134
TI	%	0.26	0.24	0.38	349	0.26	0.34	0.37	199	0.27	0.30	0.38	134
V	PPM	93.86	0.15	116.37	349	97.06	0.31	137.46	199	96.98	0.24	127.86	134
W	PPM	0	0	0	0	10.41	0.16	10.27	65	0.00	0.00	0.00	0
ZN	PPM	148.73	0.47	333.63	349	110.99	0.34	190.07	199	132.64	0.41	262.15	134
LA	PPM	42.78	0.52	87.9	345	31.96	0.38	49.36	186	42.32	0.43	69.73	130
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		1.65	0.39	2.19	61	1.35	0.43	2.03	23	1.72	0.34	2.36	44
CCR		0.32	0.52	0.58	349	0.42	0.61	1.08	199	0.41	0.64	0.97	134
FTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
PTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
LTR		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
WMT		0	0	0	0	0	0	0	0	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93LNORM

element	ROCK TYPE -> SLAB 107				ROCK TYPE -> OLYM 40				0.000 0			
	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU ppb	14.43	0.49	25.43	23	64.27	0.97	404.92	32	0.00	0.00	0.00	0
AG PPM	0.44	0.45	0.98	39	0.73	0.8	2.66	20	0.00	0.00	0.00	0
AL %	6	0.23	7.87	107	4.56	0.34	6.22	40	0.00	0.00	0.00	0
BA PPM	721.82	0.47	1611.53	107	3105.81	0.88	6170.56	40	0.00	0.00	0.00	0
BE PPM	1.53	0.62	3.5	104	1	0	1	1	0.00	0.00	0.00	0
BI PPM	3.26	0.49	7.25	49	2.87	0.43	6.66	13	0.00	0.00	0.00	0
CA %	1.66	0.45	2.86	107	3.7	1.09	13.01	40	0.00	0.00	0.00	0
CD PPM	0.71	0.44	1.56	24	0.72	0.38	1.45	18	0.00	0.00	0.00	0
CO PPM	26.48	0.46	48.85	107	59.24	0.68	125.34	39	0.00	0.00	0.00	0
CR PPM	68.15	0.27	96.03	107	45.06	0.35	60.73	40	0.00	0.00	0.00	0
CUG PPM	137.02	0.64	404.36	107	488.57	1.02	910.86	40	0.00	0.00	0.00	0
CUA %	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE %	4.03	0.29	5.75	107	7.76	0.21	10	40	0.00	0.00	0.00	0
K %	1.95	0.29	3.17	107	2.37	0.39	3.27	40	0.00	0.00	0.00	0
MG %	0.95	0.25	1.31	107	2.31	0.96	8.43	40	0.00	0.00	0.00	0
MN PPM	1889.42	0.49	3525.87	107	4864.94	0.47	8790.39	40	0.00	0.00	0.00	0
MO PPM	2.08	0.53	4.56	97	8.16	0.52	13.53	35	0.00	0.00	0.00	0
NA %	0.85	0.51	1.92	107	0.23	0.47	0.48	40	0.00	0.00	0.00	0
NI PPM	34.81	0.32	57.16	107	40.29	0.43	64.91	40	0.00	0.00	0.00	0
P PPM	877.95	0.26	1171.05	107	1201.64	0.39	1661.24	40	0.00	0.00	0.00	0
PB PPM	31.2	0.72	56.93	104	40.48	0.83	87.2	39	0.00	0.00	0.00	0
SR PPM	72.15	0.23	102.31	107	66.48	0.59	114.25	40	0.00	0.00	0.00	0
TI %	0.21	0.33	0.32	107	0.15	0.42	0.27	40	0.00	0.00	0.00	0
V PPM	78.06	0.23	106.79	107	85.01	0.26	121.3	40	0.00	0.00	0.00	0
W PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
ZN PPM	248.5	0.92	718.35	107	74.74	0.42	152.51	40	0.00	0.00	0.00	0
LA PPM	42.66	0.43	79.73	107	35.74	0.39	52.04	29	0.00	0.00	0.00	0
U PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR	1.74	0.38	2.77	28	0	0	0	0	0.00	0.00	0.00	0
CCR	0.52	0.45	1.08	107	0.84	0.69	1.9	39	0.00	0.00	0.00	0
FTR	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
PTR	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
LTR	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
WMT	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #4

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93LHALF

Element	ALL DATA mean	stand. Dev.	95 %	1249 Samples	ROCK TYPE -> HOOV mean	stand. Dev.	95 %	268 Samples	ROCK TYPE -> EAGL mean	stand. Dev.	95 %	152 Samples
AU ppb	5.07	0.89	21.73	1248	13.92	1.35	104.67	268	2.97	0.44	2.70	152
AG PPM	0.12	0.44	0.28	1249	0	0	0.1	268	0.13	0.49	0.30	152
AL %	6.37	0.24	8.56	1249	6.17	0.18	8.04	268	8.05	0.17	11.17	152
BA PPM	695.13	0.41	1326.29	1249	626.3	0.33	1112.62	268	849.87	0.40	1714.84	152
BE PPM	1.31	0.87	3.43	1249	1.09	0.89	3.27	268	1.95	0.77	4.69	152
BI PPM	2.48	0.81	8.56	1249	3.09	1.01	13.47	268	2.50	0.70	8.65	152
CA %	1.61	0.7	4.44	1249	2.19	0.79	7.05	268	1.00	0.69	1.92	152
CD PPM	0.3	0.31	0.53	1249	0.28	0.23	0.47	268	0.27	0.24	0.47	152
CO PPM	22.7	0.68	57.27	1249	37.22	0.92	102.5	268	19.09	0.54	48.72	152
CR PPM	71.41	0.24	96.4	1249	76.14	0.19	113.19	268	76.50	0.22	108.79	152
CUG PPM	135	1.11	768.14	1249	456.91	1.32	2029.22	268	129.94	1.32	614.37	152
CUA %	1.86	0.13	2.11	2	1.86	0.13	2.11	2	0.00	0.00	0.00	0
FE %	3.83	0.3	6.2	1249	3.95	0.27	5.76	268	4.03	0.22	5.39	152
K %	1.94	0.27	2.8	1249	1.91	0.27	2.86	268	2.26	0.23	3.13	152
MG %	1.14	0.43	2.56	1249	1.29	0.52	4.36	268	1.14	0.28	1.77	152
MN PPM	1382.91	0.63	3612.97	1249	1640.13	0.59	3250.35	268	1386.64	0.46	2726.55	152
MO PPM	1.62	0.83	5.85	1249	2.67	0.83	7	268	1.25	0.69	3.23	152
NA %	0.91	0.54	2.06	1249	0.77	0.33	1.25	268	1.74	0.44	3.36	152
NI PPM	31.81	0.38	56.5	1249	39.3	0.45	85.33	268	30.77	0.26	47.06	152
P PPM	765.03	0.36	1224.72	1249	869.3	0.37	1327.08	268	784.73	0.34	1242.46	152
PB PPM	23.48	0.71	42.7	1249	18.33	0.58	34.61	268	21.95	1.23	58.51	152
SR PPM	82.69	0.33	146.36	1249	77.7	0.24	105.62	268	112.39	0.39	191.05	152
TI %	0.25	0.32	0.37	1249	0.23	0.28	0.36	268	0.27	0.23	0.37	152
V PPM	90.63	0.23	121.3	1249	84.56	0.21	114.67	268	90.29	0.22	119.16	152
W PPM	5.32	0.18	7.92	1249	5.25	0.15	7.44	268	5.00	0.00	5.00	152
ZN PPM	130.59	0.58	321.21	1249	105.14	0.43	183.88	268	103.04	0.76	294.77	152
LA PPM	44.24	0.69	92.85	1249	45.52	0.81	90.58	268	71.00	0.78	281.85	152
U PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR	0.74	0.5	1.99	1249	0.61	0.38	1.4	268	1.28	0.52	2.28	152
CCR	0.58	0.84	1.92	1249	1.38	1.08	6.29	268	0.52	0.91	1.85	152
FTR	0.5	0.06	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152
PTR	0.5	0.06	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152
LTR	0.5	0.04	0.5	1249	0.5	0	0.5	268	0.50	0.00	0.50	152
WMT	0.5	0.07	0.51	1249	0.5	0	0.5	268	0.50	0.00	0.50	152

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93LHALF

element	ROCK TYPE -> BONN 417				ROCK TYPE -> FAIR 199				ROCK TYPE -> PLUM 134			
	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU ppb	2.56	0.13	2.53	416	3.01	0.4	6.89	199	2.92	0.38	4.87	134
AG PPM	0.11	0.22	0.1	417	0.11	0.25	0.19	199	0.13	0.51	0.42	134
AL %	6.29	0.19	7.88	417	5.89	0.26	6.92	199	6.68	0.25	9.46	134
BA PPM	506.33	0.19	784.28	417	563.86	0.26	754.61	199	674.96	0.24	949.20	134
BE PPM	1.35	0.85	3.44	417	1.38	0.87	2.54	199	1.02	0.83	2.78	134
BI PPM	2.2	0.79	9.61	417	1.87	0.65	6.21	199	2.87	0.73	7.67	134
CA %	1.54	0.67	4.82	417	1.6	0.68	4.22	199	1.58	0.54	3.67	134
CD PPM	0.3	0.29	0.51	417	0.27	0.23	0.47	199	0.35	0.38	0.52	134
CO PPM	18.97	0.55	33.78	417	14.85	0.52	32.06	199	17.04	0.32	28.56	134
CR PPM	71.66	0.19	100.52	417	70.45	0.22	80.78	199	63.27	0.19	79.25	134
CUG PPM	71.28	0.51	143.23	417	57.82	0.7	185.25	199	68.40	0.68	156.98	134
CUA %	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE %	3.4	0.24	4.69	417	3.61	0.3	5.41	199	3.71	0.26	4.94	134
K %	1.84	0.18	2.33	417	1.85	0.34	2.65	199	1.89	0.25	2.54	134
MG %	1.13	0.43	2.59	417	1.11	0.47	2.53	199	1.22	0.35	2.43	134
MN PPM	1136.56	0.56	2042.06	417	1282.26	0.66	4152.51	199	1083.91	0.42	2089.49	134
MO PPM	1.38	0.7	3.08	417	0.78	0.51	2.16	199	0.73	0.49	1.65	134
NA %	0.79	0.33	1.22	417	0.74	0.5	1.69	199	0.96	0.39	1.39	134
NI PPM	30.88	0.32	46.13	417	25.4	0.32	45.92	199	28.82	0.25	43.08	134
P PPM	864.32	0.29	1149.21	417	621.46	0.39	1019.64	199	676.65	0.30	1008.38	134
PB PPM	17.64	0.46	34.07	417	23.83	0.5	36.74	199	21.06	0.40	33.06	134
SR PPM	82.91	0.31	156.09	417	65.55	0.22	85.4	199	108.79	0.35	186.26	134
TI %	0.26	0.25	0.38	417	0.26	0.34	0.37	199	0.27	0.30	0.38	134
V PPM	78.92	0.2	112.05	417	97.06	0.31	137.46	199	96.98	0.24	127.86	134
W PPM	5	0	5	417	6.73	0.35	10.43	199	5.00	0.00	5.00	134
ZN PPM	93.41	0.33	159.03	417	110.99	0.34	190.07	199	132.64	0.41	262.15	134
LA PPM	40.68	0.66	66.9	417	31.19	0.58	49.8	199	42.18	0.55	75.58	134
U PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR	0.67	0.46	1.59	349	0.59	0.34	1.24	199	0.87	0.59	2.06	134
CCR	0.37	0.59	0.81	417	0.42	0.61	1.08	199	0.41	0.64	0.97	134
FTR	0.5	0	0.5	417	0.51	0.14	0.51	199	0.50	0.00	0.50	134
PTR	0.5	0	0.5	417	0.51	0.14	0.51	199	0.50	0.00	0.50	134
LTR	0.5	0	0.5	417	0.51	0.09	0.5	199	0.50	0.00	0.50	134
WMT	0.5	0	0.5	417	0.5	0.17	0.51	199	0.50	0.00	0.50	134

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #1

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | Detection Limit Samples Ignored | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STAT

Element	ALL DATA mean	stand. Dev.	95 %	1359 Samples	ROCK TYPE -> HOOV mean	stand. Dev.	95 %	192 Samples	ROCK TYPE -> SLAB mean	stand. Dev.	95 %	191 Samples
AU ppb	155.7	903.16	496.09	670	397.62	2170.45	980.83	86	332.84	1043.29	1156.25	95
AG PPM	4.45	12.26	11.83	228	0.94	0.86	2.51	29	11.96	22.74	77.28	39
AL %	6.42	1.9	8.93	1338	6.8	2.15	10.17	188	6.94	1.35	8.84	189
BA PPM	798.51	1022.04	2663.63	1356	658.13	839.99	2426.67	192	633.66	441.43	1309.00	191
BE PPM	1.73	4.23	4.41	359	3.22	8.97	7.4	72	1.59	1.46	4.52	126
BI PPM	19.78	167.15	38.95	695	16.09	69.28	14.77	85	7.90	24.11	11.65	102
CA %	4.09	3.65	11.68	1265	4.76	3.72	12.3	164	4.73	3.06	9.98	183
CD PPM	1.41	10.26	2.45	374	0.57	0.17	1	29	0.60	0.41	0.97	71
CO PPM	45.3	197.38	112.8	1292	18.27	31.56	58.4	162	33.20	67.00	118.50	184
CR PPM	70.79	51.18	133.1	1357	49.92	51.01	132.21	192	88.10	43.90	141.50	191
CUG PPM	1939.75	3332.68	9817.5	1332	2706.04	3933.17	10638.46	188	2429.49	3491.00	9847.07	191
CUA %	4.1	9.08	10.63	145	4.17	5.98	25.8	36	2.34	1.58	5.14	23
FE %	5.38	3.67	11.61	1332	4.82	3.94	12.48	181	3.03	1.91	7.64	189
K %	3.49	2.28	7.5	1226	2.81	2.07	6.15	134	2.75	1.36	4.80	183
MG %	2.04	1.71	4.45	1211	1.06	1.26	2.93	110	1.25	0.58	2.17	181
MN PPM	1628.13	1450.15	4337.94	1346	1252.37	1392.52	3430	192	1059.24	712.09	2563.33	191
MO PPM	14.93	85.44	39.75	870	12.33	85.79	19.84	118	23.77	132.48	50.31	125
NA %	1.86	1.71	5.31	1192	3.18	1.97	6.48	166	2.75	1.28	5.37	188
NI PPM	48.41	316.32	103.59	1358	25.58	22.97	72.6	192	30.81	24.78	67.35	191
P PPM	810.63	638.26	1454	1332	820.32	989.66	1635	186	917.72	333.79	1451.10	189
PB PPM	22.68	101.07	75.75	357	6.59	3.31	12.45	34	33.90	192.40	69.17	77
SR PPM	81.71	176.66	250.98	1359	75.84	58.52	220.5	192	134.33	83.86	292.25	191
TI %	0.24	0.19	0.66	1000	0.14	0.1	0.31	90	0.27	0.17	0.38	167
V PPM	80.15	89.67	238.06	1353	55.87	41.17	109.08	191	73.35	132.64	129.50	190
W PPM	43.92	81.54	149.65	816	89.38	160.43	512	64	42.19	57.49	196.00	96
ZN PPM	61.94	230.26	153.08	1292	45.69	107.68	138.13	159	43.72	38.49	113.84	181
LA PPM	62.16	115.89	167.36	918	86.24	135.89	467.25	93	45.77	46.71	118.00	104
U PPM	38.41	85.33	107.2	264	46.11	45.23	161	18	31.89	35.78	118.35	37
KNR	10.42	15.2	42.02	1107	2.44	3.06	7.69	115	1.65	2.50	3.85	183
CCR	23.35	74.55	133.2	1268	47.39	87.41	248	160	17.17	44.57	108.00	184
FTR	4.24	10.26	11.78	995	7.2	17.19	24.75	90	1.37	1.37	3.35	166
PTR	5.37	7.33	13.95	988	5.98	4.38	15.7	86	4.54	4.15	11.70	166
LTR	4.97	25.84	11.56	713	17.12	69.48	38.25	49	1.87	1.85	4.64	88
WMT	6.63	42.1	20.43	888	37.14	136.68	224	72	2.00	5.39	12.07	138

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Soil Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA
(* - indicates only 1992 sample data)

FILE=93LHALF

	element	ROCK TYPE -> SLAB mean	stand. Dev.	95 %	107 Samples	ROCK TYPE -> OLYM mean	stand. Dev.	95 %	40 Samples	0.000 mean	stand. Dev.	95 %	0 Samples
AU	ppb	4.56	0.71	18.23	107	61.27	1.41	93.88	40	0.00	0.00	0.00	0
AG	PPM	0.21	0.72	0.66	107	0.38	1.01	2.2	40	0.00	0.00	0.00	0
AL	%	6	0.23	7.87	107	4.56	0.34	6.22	40	0.00	0.00	0.00	0
BA	PPM	721.82	0.47	1611.53	107	3105.81	0.88	6170.56	40	0.00	0.00	0.00	0
BE	PPM	1.51	0.67	3.8	107	0.26	0.22	0.26	40	0.00	0.00	0.00	0
BI	PPM	1.98	0.63	5.98	107	1.56	0.51	4.32	40	0.00	0.00	0.00	0
CA	%	1.66	0.45	2.86	107	3.7	1.09	13.01	40	0.00	0.00	0.00	0
CD	PPM	0.34	0.45	0.78	107	0.45	0.55	1.09	40	0.00	0.00	0.00	0
CO	PPM	26.48	0.46	48.85	107	67.33	0.98	130.15	40	0.00	0.00	0.00	0
CR	PPM	68.15	0.27	96.03	107	45.06	0.35	60.73	40	0.00	0.00	0.00	0
CUG	PPM	137.02	0.64	404.36	107	488.57	1.02	910.86	40	0.00	0.00	0.00	0
CUA	%	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
FE	%	4.03	0.29	5.75	107	7.76	0.21	10	40	0.00	0.00	0.00	0
K	%	1.95	0.29	3.17	107	2.37	0.39	3.27	40	0.00	0.00	0.00	0
MG	%	0.95	0.25	1.31	107	2.31	0.96	8.43	40	0.00	0.00	0.00	0
MN	PPM	1889.42	0.49	3525.87	107	4864.94	0.47	8790.39	40	0.00	0.00	0.00	0
MO	PPM	1.96	0.63	4.53	107	8.42	1	13.92	40	0.00	0.00	0.00	0
NA	%	0.85	0.51	1.92	107	0.23	0.47	0.48	40	0.00	0.00	0.00	0
NI	PPM	34.81	0.32	57.16	107	40.29	0.43	64.91	40	0.00	0.00	0.00	0
P	PPM	877.95	0.26	1171.05	107	1201.64	0.39	1661.24	40	0.00	0.00	0.00	0
PB	PPM	32.5	0.88	54.94	107	42.24	0.97	87.13	40	0.00	0.00	0.00	0
SR	PPM	72.15	0.23	102.31	107	66.48	0.59	114.25	40	0.00	0.00	0.00	0
TI	%	0.21	0.33	0.32	107	0.15	0.42	0.27	40	0.00	0.00	0.00	0
V	PPM	78.06	0.23	106.79	107	85.01	0.26	121.3	40	0.00	0.00	0.00	0
W	PPM	5	0	5	107	5	0	5	40	0.00	0.00	0.00	0
ZN	PPM	248.5	0.92	718.35	107	74.74	0.42	152.51	40	0.00	0.00	0.00	0
LA	PPM	42.66	0.43	79.73	107	29.59	0.91	45.6	40	0.00	0.00	0.00	0
U	PPM	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0
KNR		0.79	0.55	2.15	107	0	0	0.5	40	0.00	0.00	0.00	0
CCR		0.52	0.45	1.08	107	0.83	0.68	1.87	40	0.00	0.00	0.00	0
FTR		0.5	0	0.5	107	0	0	0.5	40	0.00	0.00	0.00	0
PTR		0.5	0	0.5	107	0	0	0.5	40	0.00	0.00	0.00	0
LTR		0.5	0	0.5	107	0	0	0.5	40	0.00	0.00	0.00	0
WMT		0.5	0	0.5	107	0	0	0.5	40	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STAT

		ROCK TYPE -> OLYM			197	ROCK TYPE -> MICA			140	ROCK TYPE -> HAIL			50
element		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	57.13	202.21	231.25	115	65.81	142.13	276.5	62	44.05	73.53	219.00	21
AG	PPM	3.79	5.24	20.1	32	7.44	23.21	96.9	17	0.47	0.46	1.93	14
AL	%	6.33	1.64	7.97	193	6.2	1.96	8.16	139	6.65	1.34	8.48	50
BA	PPM	1207.92	1588.71	4830	197	719.2	795.01	2510	138	615.80	241.73	1065.80	50
BE	PPM	0.8	0.46	1.93	30	1.08	0.61	2.86	19	0.00	0.00	0.00	0
BI	PPM	10	40.65	18.29	104	11.82	56.03	14.64	76	5.23	3.93	11.85	26
CA	%	3.63	2.6	6.99	185	2.99	2.68	8.17	137	2.81	2.80	5.07	50
CD	PPM	1.61	6.35	1.95	48	0.65	0.41	1.46	34	0.50	0.00	0.50	15
CO	PPM	47.01	260.49	124.94	194	107.14	394.55	500	140	20.76	19.33	58.75	50
CR	PPM	70.74	57.74	115.63	195	76.03	42.13	130	140	89.62	24.28	119.02	50
CUG	PPM	1598.94	3022.15	10010	196	951.71	2392.94	9655.71	127	1853.28	3335.89	9775.00	50
CUA	%	5.5	7.2	30.4	16	4.32	5.03	15.97	7	1.93	0.73	2.95	5
FE	%	6.45	3.19	11.34	193	6.15	4.22	18.13	135	5.82	1.80	9.53	50
K	%	4.65	2.15	7.7	179	4.13	2.32	7.61	138	5.43	1.75	8.06	50
MG	%	2.43	2.01	4.91	187	2.26	1.48	4.6	137	1.88	1.64	3.00	50
MN	PPM	2013.38	1123.5	3777.86	197	1761.09	1767.53	5107.5	133	2591.50	1152.56	4650.00	50
MO	PPM	7.36	17.7	17.1	148	11.17	37.02	41.8	104	6.74	24.03	9.90	27
NA	%	0.79	1.2	3.52	171	1.28	1.4	4.58	118	0.88	1.13	2.92	50
NI	PPM	37.19	55.15	110.75	197	47.64	92.66	208.33	140	21.90	20.85	72.50	50
P	PPM	834.03	639.29	1417.5	191	895.43	960.6	2175	138	782.80	285.78	1150.30	50
PB	PPM	30.68	63.55	159.75	47	24.35	43.14	88.5	23	8.67	5.25	16.27	3
SR	PPM	54.95	76.88	212.6	197	22.28	13.43	88.5	140	18.62	15.98	30.00	50
TI	%	0.21	0.13	0.44	148	0.18	0.09	0.31	108	0.20	0.08	0.39	49
V	PPM	93.13	77.17	266.25	195	76.84	100.03	201.25	139	64.72	32.70	140.00	50
W	PPM	39.79	62.11	88.75	145	35.93	64.58	87	108	36.33	42.89	105.50	49
ZN	PPM	71.3	265.68	229.67	196	35.05	90.43	96.25	132	28.40	22.00	74.25	50
LA	PPM	44.18	36.62	117.45	158	75.38	98.19	213.13	119	100.89	324.54	215.00	45
U	PPM	22.25	18.23	63	40	37.69	30.42	130.13	13	18.33	20.62	95.50	18
KNR		24.77	18.98	55.07	161	11.75	13.12	40.42	118	22.28	18.73	51.75	50
CCR		17.75	61.16	80.25	193	10.08	32.98	39.07	127	15.75	31.78	100.00	50
FTR		4.93	13.06	12.77	147	5.42	9.44	24.25	106	3.14	1.06	5.21	49
PTR		4.91	3.4	10.1	147	8.53	15.83	41.3	107	4.98	6.35	7.27	49
LTR		2.43	2.08	6.43	123	6.79	13.99	28.52	97	12.57	65.12	14.57	45
WMT		4.8	15.91	10.85	143	6.37	20.42	29.75	102	2.12	2.50	8.13	49

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STAT

	element	ROCK TYPE -> URSU			65	ROCK TYPE -> JAZZ			112	ROCK TYPE -> RAM			80
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	77.22	103.87	270.63	27	56.33	87.08	250	90	108.82	130.50	430.50	34
AG	PPM	2.03	2.61	10.01	12	2.23	1.73	5.35	22	2.69	3.00	10.88	20
AL	%	5.75	2.4	9.35	65	6.3	1.62	8.08	112	6.84	1.30	8.24	80
BA	PPM	653.23	736.87	1750	65	1024.46	721.19	1880	112	987.09	983.48	2512.50	79
BE	PPM	1.85	2.15	7.97	10	1.79	1.62	5.46	7	1.02	0.53	2.07	24
BI	PPM	6.27	5.3	11.85	22	5.62	6.07	15.98	47	9.04	13.77	22.75	50
CA	%	4.45	3.82	14.06	64	3.79	3.21	10.88	108	2.98	1.80	5.85	80
CD	PPM	0.5	0	0.5	7	1.29	3.51	3.02	33	0.61	0.27	1.25	33
CO	PPM	40.23	131.02	131.25	65	41.14	106.61	120.62	107	66.53	267.71	108.33	80
CR	PPM	87.31	68.78	191.25	65	56.78	41.6	105.67	112	86.51	46.93	140.00	80
CUG	PPM	1688.53	2801.52	9940	64	1938.59	3369.46	9803.33	112	2328.47	3753.79	10137.29	79
CUA	%	3.89	0.84	5.05	4	2.09	0.82	3.58	11	2.60	1.56	6.16	12
FE	%	5.86	3.03	12.56	65	6.71	3.6	13.75	109	5.90	3.58	10.80	80
K	%	2.14	1.54	4.75	65	5.45	2.33	8.94	110	4.08	2.13	7.18	79
MG	%	2.41	1.79	6.47	65	2.38	2.1	5.77	109	1.92	1.08	3.83	80
MN	PPM	3293.75	1891.07	6300	60	1829.28	1103.06	3845	111	1039.50	508.24	1950.00	80
MO	PPM	6.13	7.54	17.7	46	16.77	42.46	61	78	65.02	253.15	256.75	41
NA	%	1.84	1.69	5.18	63	0.56	0.81	2.59	82	1.36	1.18	3.90	80
NI	PPM	27.55	27.78	93.63	65	33.64	28.24	75.95	112	34.34	23.85	69.00	80
P	PPM	731.97	449.88	1197.5	61	881.62	393.11	1381.67	111	735.77	384.48	1149.50	78
PB	PPM	9.43	8.67	34.6	14	42.27	135.72	533.75	15	14.67	13.75	49.88	15
SR	PPM	66.72	226.6	107.25	65	49.69	96.27	267.5	112	56.10	56.57	150.00	80
TI	%	0.14	0.07	0.24	59	0.15	0.12	0.48	78	0.36	0.31	1.02	78
V	PPM	50.95	31.87	79.5	65	87.46	93.67	320	112	111.94	107.64	358.33	80
W	PPM	44.47	76.97	242	38	36.44	46.58	96.63	87	64.59	110.52	284.25	61
ZN	PPM	29.28	22.85	64.9	64	54.26	155.34	167.33	109	53.78	99.36	150.00	80
LA	PPM	66.9	63.9	208.5	42	61.1	83.29	154.5	91	50.63	75.10	105.33	64
U	PPM	33.81	24.39	83.7	21	28.7	26.43	90.02	23	115.83	251.36	507.00	24
KNR		4.52	6.81	16.27	63	24.97	15.24	43.51	82	9.99	12.11	37.05	79
CCR		36.37	137.9	133	64	30.42	110.66	189.75	107	9.55	19.63	70.25	79
FTR		8.31	14	45.67	59	5.5	5.65	12.23	77	2.64	4.00	6.10	78
PTR		8.02	10.37	35.25	58	8.22	5.33	18.15	78	3.30	2.33	8.52	76
LTR		6.3	16.13	11.93	41	5.13	6.14	14.55	66	2.19	2.24	6.56	63
WMT		3.82	8.16	20.1	59	5.71	16.01	20.6	77	7.53	24.31	33.30	69

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STAT

element	ROCK TYPE -> CLEV 14				ROCK TYPE -> QUAR 61				ROCK TYPE -> FAIR 16			
	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU ppb	7.5	2.5	10.44	2	24.44	44.93	191	18	29.00	17.72	61.88	5
AG PPM	0	0	0	0	1.1	0.73	1.96	4	2.00	4.00	1.95	1
AL %	6.49	1.57	7.41	14	6.84	1.42	8.47	61	6.33	1.32	7.82	15
BA PPM	1130	337.36	1495.5	14	488.03	824.11	1590	61	211.25	214.27	781.00	16
BE PPM	0	0	0	0	1.05	0.47	2	10	1.00	1.00	0.99	1
BI PPM	6.15	2.28	11.3	13	6.92	4.87	19.07	37	3.00	1.00	3.97	6
CA %	2.12	0.99	4.07	14	2.77	3.22	8.38	61	4.63	1.60	8.33	15
CD PPM	0.61	0.21	1	9	0.83	0.8	3.46	29	0.00	0.00	0.00	0
CO PPM	7.85	2.63	12.62	13	18.34	19.8	49.88	61	11.17	20.31	77.00	12
CR PPM	78.93	8.48	93.53	14	84.95	29.01	133.51	61	13.69	7.17	25.20	16
CUG PPM	21.92	36.12	111.6	12	701.75	2206.87	9909.17	59	1966.13	2571.87	9912.50	15
CUA %	0	0	0	0	1.63	0.48	2.22	3	1.64	2.69	1.92	1
FE %	6.02	2.44	11.6	14	4.69	3.08	10.48	61	7.69	5.01	24.30	16
K %	6.44	1.76	7.93	14	1.56	1.38	4.02	61	1.93	0.55	2.91	10
MG %	1.63	0.53	2.58	14	2.15	1.42	4.89	61	3.18	1.08	4.54	11
MN PPM	888.93	263	1493.43	14	1156.23	847.29	2790	61	1896.25	1467.22	4970.00	16
MO PPM	2	1.47	6.09	12	3.14	4.35	11.6	28	1.38	0.70	2.94	8
NA %	0.32	0.34	1.22	14	2.89	1.7	5.46	61	3.58	1.04	5.90	14
NI PPM	17.07	4.42	24.37	14	28.38	21.95	65.91	61	54.63	32.09	105.60	16
P PPM	1049.29	696.21	2895	14	741.67	353.39	1350	60	515.63	259.69	1053.00	16
PB PPM	4	16	3.8	1	78.67	144.45	409.5	6	4.00	16.00	3.80	1
SR PPM	17.86	8.11	38.6	14	48.31	42.91	164.75	61	111.06	75.93	284.00	16
TI %	0.18	0.04	0.24	14	0.27	0.17	0.56	61	0.00	0.00	0.00	0
V PPM	69	18.92	110.85	14	94.3	89.55	349.5	61	121.88	89.50	244.00	16
W PPM	18.57	7.42	38.6	14	21.49	19.35	58.25	47	24.62	9.29	38.38	13
ZN PPM	16.86	3.68	25.23	14	76.3	252.27	160.88	61	160.88	476.77	1920.00	16
LA PPM	57.86	62.13	259.5	14	40.43	27.66	88.9	46	35.00	25.00	59.40	4
U PPM	0	0	0	0	40.71	48.91	193	14	0.00	0.00	0.00	0
KNR	38.18	18.2	64.35	14	1.16	1.42	4.88	61	0.73	0.32	1.24	9
CCR	0.26	0.41	1.14	11	2.13	5.71	19.54	59	39.41	44.64	164.00	12
FTR	4.18	4.64	19.3	14	3.42	11.7	5.95	61	0.00	0.00	0.00	0
PTR	6.46	4.86	19.3	14	4.91	8.12	15	60	0.00	0.00	0.00	0
LTR	4.86	9.42	38.25	14	1.87	1.61	5.88	46	0.00	0.00	0.00	0
WMT	1.38	1.46	6.4	14	1.21	2.01	5.36	51	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STAT

	element	ROCK TYPE -> PLUM			16	ROCK TYPE -> MMM			24	ROCK TYPE -> TVA			33
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	10	100	23.75	1	250.75	815.43	600	20	183.82	257.96	919.75	17
AG	PPM	2.1	0.7	2.83	2	2.14	1.89	6.14	7	3.43	2.65	8.87	7
AL	%	5.88	2.11	9.87	15	8.32	1.64	10.64	24	5.33	2.54	9.33	26
BA	PPM	310.63	246.54	1032	16	352.92	234.72	774	24	1198.18	2040.70	6675.00	33
BE	PPM	1.8	1.17	4.13	5	1.32	0.92	3.83	14	1.00	0.00	1.00	2
BI	PPM	5	4.12	11.8	4	12.53	26.82	112.13	15	6.33	7.81	32.20	18
CA	%	11.95	8.76	25.57	13	1.78	3.41	12.88	17	4.83	4.42	14.00	20
CD	PPM	11	8.49	23.7	3	0.56	0.16	0.94	9	0.00	0.00	0.00	0
CO	PPM	5	4.17	12.65	7	179.1	351.98	895.5	21	9.21	13.93	26.43	29
CR	PPM	9.06	6.33	28.8	16	57.13	48.24	128	24	10.70	7.29	26.70	33
CUG	PPM	697.56	1109.05	3960	16	2466.96	3273.5	10080	24	1512.09	2912.26	9881.25	33
CUA	%	0	0	0	0	5.88	0.32	6.19	2	2.55	0.42	3.04	2
FE	%	4.67	2.78	9.94	16	4.82	3.11	12.64	24	10.52	6.16	22.05	32
K	%	2.06	0.73	3.56	10	1.84	0.84	3	20	3.96	1.65	5.91	18
MG	%	1.81	0.54	2.66	7	1.38	0.92	3.51	19	2.64	1.61	5.50	25
MN	PPM	1939.06	1570.62	5680	16	1068.13	1776.03	5310	24	2520.45	2836.16	10115.00	33
MO	PPM	2.56	1.95	5.89	9	2	1.21	4.93	11	41.93	67.56	174.00	28
NA	%	2.83	1.41	5.43	10	2.82	1.29	5.04	24	1.66	0.03	1.69	2
NI	PPM	25.44	15.55	60.8	16	250.67	1013.61	247.83	24	60.31	158.89	77.00	32
P	PPM	974.38	657.75	2880	16	465.83	170.49	798.83	24	1033.33	731.39	2535.00	33
PB	PPM	29.45	40.07	134.5	11	6.95	3.2	13.64	19	17.50	15.39	50.40	8
SR	PPM	290.25	300.31	1140	16	60.63	17.81	86.73	24	182.70	549.46	502.50	33
TI	%	1.16	0.12	1.31	3	0.13	0.05	0.22	13	0.00	0.00	0.00	0
V	PPM	99.38	115.25	366	16	43.63	26.97	89.7	24	104.24	129.14	370.50	33
W	PPM	20	8.16	29.7	3	114	144.58	411.25	5	17.14	8.81	38.60	14
ZN	PPM	764.88	1399.59	4970	16	38.84	22.8	104.77	19	39.87	39.98	154.50	31
LA	PPM	30	14.14	51.8	4	32.11	18.23	61.58	19	196.07	265.00	559.00	28
U	PPM	0	0	0	0	25	15	39.6	2	0.00	0.00	0.00	0
KNR		0.92	0.25	1.17	6	0.91	0.7	2	20	0.00	0.00	0.00	0
CCR		50.23	74.37	233	7	61.5	212.3	162.25	21	26.63	48.97	148.50	29
FTR		0.75	0.08	0.87	3	5.31	9.43	38.38	13	0.00	0.00	0.00	0
PTR		0.86	0.05	0.93	3	4.63	2.82	12.85	13	0.00	0.00	0.00	0
LTR		0	0	0	0	2.24	1.12	4.92	12	0.00	0.00	0.00	0
WMT		0.21	0.03	0.23	2	5.12	12.2	34.95	7	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #2

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

		ALL DATA			1359	ROCK TYPE -> HOOV			192	ROCK TYPE -> SLAB			191
Element		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	78.03	638.76	266.18	1359	179.48	1465.84	570	192	166.81	754.09	563.33	191
AG	PPM	0.83	5.28	2.65	1359	0.23	0.45	0.91	192	2.52	11.34	7.09	191
AL	%	6.32	2.05	8.94	1359	6.66	2.34	10.08	192	6.86	1.51	8.75	191
BA	PPM	796.75	1021.6	2660.23	1359	658.13	839.99	2426.67	192	633.66	441.43	1309.00	191
BE	PPM	0.64	2.27	1.98	1359	1.36	5.68	3.9	192	1.13	1.35	3.40	191
BI	PPM	10.6	119.9	28.95	1359	7.68	46.7	9.81	192	4.69	17.96	8.67	191
CA	%	3.81	3.67	11.25	1359	4.07	3.83	11.97	192	4.53	3.14	9.83	191
CD	PPM	0.57	5.41	1.44	1359	0.3	0.13	0.52	192	0.38	0.30	0.52	191
CO	PPM	43.1	192.69	106.1	1359	15.49	29.7	54	192	32.00	66.05	115.88	191
CR	PPM	70.69	51.21	133.08	1359	49.92	51.01	132.21	192	88.10	43.90	141.50	191
CUG	PPM	1901.23	3310.49	9809.75	1359	2649.67	3911.12	10630.77	192	2429.49	3491.00	9847.07	191
CUA	%	4.1	9.08	10.63	145	4.17	5.98	25.8	36	2.34	1.58	5.14	23
FE	%	5.28	3.71	11.35	1359	4.54	3.99	12.2	192	3.00	1.92	7.61	191
K	%	3.15	2.4	7.37	1359	1.96	2.15	5.81	192	2.63	1.44	4.76	191
MG	%	1.82	1.74	4.3	1359	0.61	1.09	2.2	192	1.19	0.63	2.13	191
MN	PPM	1612.56	1451.87	4324.56	1359	1252.37	1392.52	3430	192	1059.24	712.09	2563.33	191
MO	PPM	9.74	68.71	27.47	1359	7.77	67.5	14.79	192	15.73	107.74	40.14	191
NA	%	1.63	1.71	5.21	1359	2.75	2.13	6.36	192	2.71	1.31	5.42	191
NI	PPM	48.38	316.2	103.52	1359	25.58	22.97	72.6	192	30.81	24.78	67.35	191
P	PPM	794.58	641.87	1440.5	1359	794.77	984.41	1620	192	908.14	344.86	1456.39	191
PB	PPM	6.7	52.67	14.87	1359	1.99	2.55	8.19	192	14.26	123.22	29.58	191
SR	PPM	81.71	176.66	250.98	1359	75.84	58.52	220.5	192	134.33	83.86	292.25	191
TI	%	0.18	0.19	0.56	1359	0.07	0.1	0.27	192	0.24	0.18	0.36	191
V	PPM	79.8	89.63	237.71	1359	55.59	41.26	109	192	72.97	132.40	129.15	191
W	PPM	27.37	66.36	97.27	1359	31.46	101.27	135	192	22.45	45.33	140.90	191
ZN	PPM	58.91	224.91	152.56	1359	37.92	99.47	122	192	41.46	38.68	112.26	191
LA	PPM	42.8	99.26	133.39	1359	43.06	103.42	137.14	192	26.06	40.65	93.63	191
U	PPM	11.8	46.2	40.06	1019	11.03	26.45	44.2	92	9.01	20.80	38.25	167
KNR		8.58	14.25	40.96	1359	1.66	2.55	6.42	192	1.61	2.45	3.74	191
CCR		21.82	72.23	124.1	1359	39.58	81.69	241.6	192	16.56	43.86	104.50	191
FTR		3.24	8.93	7.95	1359	3.64	12.24	9.6	192	1.25	1.31	3.20	191
PTR		4.04	6.62	11.63	1359	2.95	4	11.7	192	4.01	4.11	8.82	191
LTR		2.85	18.85	7.59	1359	4.74	35.84	8.92	192	1.13	1.43	3.75	191
WMT		4.5	34.16	11.74	1359	14.24	85.56	29.33	192	1.58	4.63	6.23	191

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

		ROCK TYPE -> OLYM			197	ROCK TYPE -> MICA			140	ROCK TYPE -> HAIL			50
element		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	34.39	156.82	126	197	30.54	99.68	91.67	140	19.95	51.88	67.50	50
AG	PPM	0.7	2.51	4	197	0.99	8.44	1.97	140	0.20	0.30	0.58	50
AL	%	6.21	1.85	7.98	197	6.15	2.02	8.11	140	6.65	1.34	8.48	50
BA	PPM	1207.92	1588.71	4830	197	708.94	793.91	2500	140	615.80	241.73	1065.80	50
BE	PPM	0.33	0.27	0.99	197	0.36	0.36	1.06	140	0.25	0.00	0.25	50
BI	PPM	5.75	29.88	13.3	197	6.87	41.63	9.85	140	3.20	3.53	11.93	50
CA	%	3.41	2.66	6.6	197	2.93	2.68	8.12	140	2.81	2.80	5.07	50
CD	PPM	0.58	3.19	0.82	197	0.35	0.26	0.52	140	0.32	0.11	0.50	50
CO	PPM	46.3	258.57	123.86	197	107.14	394.55	500	140	20.76	19.33	58.75	50
CR	PPM	70.03	57.88	115.37	197	76.03	42.13	130	140	89.62	24.28	119.02	50
CUG	PPM	1590.82	3016.61	10007.5	197	863.38	2295.79	130	140	1853.28	3335.89	9775.00	50
CUA	%	5.5	7.2	30.4	16	4.32	5.03	15.97	7	1.93	0.73	2.95	5
FE	%	6.32	3.29	11.26	197	5.93	4.3	15.97	140	5.82	1.80	9.53	50
K	%	4.23	2.45	7.68	197	4.07	2.36	7.6	140	5.43	1.75	8.06	50
MG	%	2.31	2.03	4.79	197	2.21	1.5	7.6	140	1.88	1.64	3.00	50
MN	PPM	2013.38	1123.5	3777.86	197	1673.06	1764.99	4950	140	2591.50	1152.56	4650.00	50
MO	PPM	5.65	15.63	14.52	197	8.43	32.24	28	140	3.87	17.93	4.45	50
NA	%	0.68	1.15	3.32	197	1.08	1.37	4.2	140	0.88	1.13	2.92	50
NI	PPM	37.19	55.15	110.75	197	47.64	92.66	208.33	140	21.90	20.85	72.50	50
P	PPM	808.71	645.5	1372.5	197	882.68	959.58	2166.67	140	782.80	285.78	1150.30	50
PB	PPM	8.08	33.52	26.77	197	4.84	19.51	21.67	140	1.46	2.23	4.13	50
SR	PPM	54.95	76.88	212.6	197	22.28	13.43	21.67	140	18.62	15.98	30.00	50
TI	%	0.16	0.14	0.39	197	0.14	0.11	0.29	140	0.20	0.09	0.38	50
V	PPM	92.19	77.33	265.75	197	76.3	99.88	0.29	140	64.72	32.70	140.00	50
W	PPM	29.95	55.76	75.75	197	28.29	58.43	75	140	35.65	42.72	105.00	50
ZN	PPM	70.94	265.05	229.12	197	33.07	88.17	93.33	140	28.40	22.00	74.25	50
LA	PPM	35.93	36.76	99.68	197	64.45	94.19	93.33	140	91.05	309.29	243.75	50
U	PPM	7.7	12.77	29.55	152	6.55	15.25	31.35	113	8.20	14.52	20.56	50
KNR		20.33	19.55	52.69	197	9.98	12.72	39	140	22.28	18.73	51.75	50
CCR		17.4	60.58	77.25	197	9.19	31.54	37.33	140	15.75	31.78	100.00	50
FTR		3.8	11.44	8.57	197	4.22	8.48	14	140	3.08	1.12	5.26	50
PTR		3.79	3.51	9.93	197	6.64	14.26	14	140	4.89	6.31	7.25	50
LTR		1.7	1.89	5.66	197	4.86	12	16.5	140	11.36	61.89	14.54	50
WMT		3.62	13.69	8.01	197	4.77	17.62	22.5	140	2.09	2.48	8.10	50

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> CLEV 14				ROCK TYPE -> QUAR 61				ROCK TYPE -> FAIR 16			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	3.21	1.99	9.65	14	8.98	26.38	32.18	61	10.78	15.78	56.80	16
AG	PPM	0.1	0	0.1	14	0.17	0.31	0.22	61	0.22	0.46	1.92	16
AL	%	6.49	1.57	7.41	14	6.84	1.42	8.47	61	5.93	2.00	7.80	16
BA	PPM	1130	337.36	1495.5	14	488.03	824.11	1590	61	211.25	214.27	781.00	16
BE	PPM	0.25	0	0.25	14	0.38	0.35	1.08	61	0.30	0.18	0.86	16
BI	PPM	5.79	2.57	11.89	14	4.59	4.77	15.95	61	1.75	1.15	4.12	16
CA	%	2.12	0.99	4.07	14	2.77	3.22	8.38	61	4.34	1.91	8.10	16
CD	PPM	0.48	0.24	1	14	0.52	0.62	1.49	61	0.25	0.00	0.25	16
CO	PPM	7.32	3.16	13.04	14	18.34	19.8	49.88	61	8.50	18.18	77.40	16
CR	PPM	78.93	8.48	93.53	14	84.95	29.01	133.51	61	13.69	7.17	25.20	16
CUG	PPM	18.86	34.27	104.55	14	678.75	2173.98	3272.5	61	1843.28	2535.25	9880.00	16
CUA	%	0	0	0	0	1.63	0.48	2.22	3	1.64	2.69	1.92	1
FE	%	6.02	2.44	11.6	14	4.69	3.08	10.48	61	7.69	5.01	24.30	16
K	%	6.44	1.76	7.93	14	1.56	1.38	4.02	61	1.21	1.03	2.80	16
MG	%	1.63	0.53	2.58	14	2.15	1.42	4.89	61	2.19	1.72	4.38	16
MN	PPM	888.93	263	1493.43	14	1156.23	847.29	2790	61	1896.25	1467.22	4970.00	16
MO	PPM	1.79	1.46	6.05	14	1.71	3.23	5.98	61	0.94	0.66	2.88	16
NA	%	0.32	0.34	1.22	14	2.89	1.7	5.46	61	3.13	1.53	5.68	16
NI	PPM	17.07	4.42	24.37	14	28.38	21.95	65.91	61	54.63	32.09	105.60	16
P	PPM	1049.29	696.21	2895	14	729.55	362.84	1345.5	61	515.63	259.69	1053.00	16
PB	PPM	1.21	0.77	3.86	14	8.64	50.87	14.73	61	1.19	0.73	3.84	16
SR	PPM	17.86	8.11	38.6	14	48.31	42.91	164.75	61	111.06	75.93	284.00	16
TI	%	0.18	0.04	0.24	14	0.27	0.17	0.56	61	0.00	0.00	0.00	16
V	PPM	69	18.92	110.85	14	94.3	89.55	349.5	61	121.88	89.50	244.00	16
W	PPM	18.57	7.42	38.6	14	17.13	18.77	40.39	61	20.47	12.03	39.60	16
ZN	PPM	16.86	3.68	25.23	14	76.3	252.27	160.88	61	160.88	476.77	1920.00	16
LA	PPM	57.86	62.13	259.5	14	31.11	29.05	82.31	61	10.63	18.82	61.20	16
U	PPM	2.5	0	2.5	14	11.27	28.41	55.65	61	0.00	0.00	0.00	0
KNR		38.18	18.2	64.35	14	1.16	1.42	4.88	61	0.63	0.27	1.21	16
CCR		0.31	0.38	1.17	14	2.08	5.63	19.42	61	29.69	42.17	162.00	16
FTR		4.18	4.64	19.3	14	3.42	11.7	5.95	61	0.50	0.00	0.50	16
PTR		6.46	4.86	19.3	14	4.83	8.07	14.95	61	0.50	0.00	0.50	16
LTR		4.86	9.42	38.25	14	1.53	1.51	4.79	61	0.50	0.00	0.50	16
WMT		1.38	1.46	6.4	14	1.09	1.86	5.38	61	0.50	0.00	0.50	16

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA
(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> ARCT 25				ROCK TYPE -> REID 19				ROCK TYPE -> EAGL 22			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	7	12.12	26.25	25	22.89	22.22	77.27	19	96.93	247.64	178.50	22
AG	PPM	0.3	0.6	1.61	25	2.77	4.28	15.05	19	1.29	2.86	7.63	22
AL	%	5.77	1.83	7.45	25	3.35	1.69	6.42	19	5.63	2.33	8.37	22
BA	PPM	2333.6	2015.51	6375	25	84.74	141.66	631.75	19	815.00	923.86	2975.00	22
BE	PPM	0.33	0.17	0.52	25	0.34	0.23	0.99	19	0.35	0.26	1.02	22
BI	PPM	5.36	5.35	14.63	25	340.05	908.04	3762.5	19	51.86	190.44	95.00	22
CA	%	5.54	4.53	16.75	25	0.35	0.87	3.01	19	6.54	5.59	17.85	22
CD	PPM	0.4	0.21	1.01	25	0.46	0.62	2.86	19	8.97	39.94	9.95	22
CO	PPM	36.12	71.42	255	25	49.53	135.2	596.75	19	105.07	284.14	1011.50	22
CR	PPM	72.92	43	109.17	25	64.05	64.71	195.75	19	8.82	4.42	16.90	22
CUG	PPM	1368.3	3215.64	10066.67	25	5694.68	3833.61	10299.58	19	3857.82	3716.32	10241.00	22
CUA	%	3.66	2.01	5.95	2	5.16	2.81	10.29	6	2.78	2.42	7.65	5
FE	%	4.93	2.78	10.32	25	3.96	2.76	10.53	19	4.47	4.82	8.90	22
K	%	2.63	1.96	5.96	25	0.94	1.28	4.81	19	2.52	1.72	4.49	22
MG	%	3.61	3.33	11.69	25	1.32	0.84	2.55	19	0.86	0.97	1.74	22
MN	PPM	3023.4	1457.54	5556.25	25	233.68	466.71	1905	19	2516.82	2433.28	8670.00	22
MO	PPM	1.46	2.69	10.24	25	1.29	0.78	2.9	19	8.89	18.98	26.55	22
NA	%	2.09	1.78	5.36	25	0.04	0.06	0.24	19	1.72	1.48	4.51	22
NI	PPM	26.52	26.78	82.88	25	204.53	507.13	2257.5	19	565.05	2083.53	1950.00	22
P	PPM	777.2	801.7	1950	25	272.76	294.12	1278.75	19	843.75	386.68	1415.50	22
PB	PPM	2.12	2.64	8.29	25	5.05	5.51	19.57	19	13.36	38.83	28.02	22
SR	PPM	116.24	147.86	306.25	25	6.16	3.33	14.49	19	140.95	78.73	338.00	22
TI	%	0.22	0.21	0.76	25	0.02	0.03	0.1	19	0.01	0.00	0.01	22
V	PPM	74.6	69.78	191.25	25	25.05	15.37	58.1	19	55.75	27.87	90.77	22
W	PPM	42.6	89.84	155	25	15.13	29.95	101.44	19	48.30	168.29	156.00	22
ZN	PPM	46.24	39.93	127.5	25	76.95	100.99	401.25	19	44.55	50.35	148.50	22
LA	PPM	20.8	29.37	80.63	25	15.39	10.58	29.52	19	35.57	88.61	198.00	22
U	PPM	5.4	8.02	28.75	25	2.5	0	2.5	6	0.00	0.00	0.00	0
KNR		8.94	15.51	35	25	3.01	5.08	18.07	19	1.41	1.17	3.57	22
CCR		2.63	6.58	13.13	25	96.35	137.27	456.75	19	65.22	70.15	198.00	22
FTR		4.37	5.64	13.31	25	8.96	25.16	110.82	19	0.50	0.00	0.50	22
PTR		5.3	5.07	20.63	25	1.36	2.1	8.83	19	0.50	0.00	0.50	22
LTR		1.43	1.85	5.29	25	1.08	1.04	3.38	19	0.50	0.00	0.50	22
WMT		4.36	9.68	29.38	25	2.62	7.49	32.1	19	0.50	0.00	0.50	22

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NORMAL DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

		ROCK TYPE -> PLUM			16	ROCK TYPE -> MMM			24	ROCK TYPE -> TVA			33
	element	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	2.97	1.82	8.64	16	209.38	750.11	560	24	95.91	206.13	583.75	33
AG	PPM	0.35	0.71	2.64	16	0.7	1.38	3.43	24	0.81	1.83	5.56	33
AL	%	5.51	2.49	9.72	16	8.32	1.64	10.64	24	4.20	3.14	9.16	33
BA	PPM	310.63	246.54	1032	16	352.92	234.72	774	24	1198.18	2040.70	6675.00	33
BE	PPM	0.73	0.97	3.8	16	0.88	0.88	1.98	24	0.30	0.18	0.86	33
BI	PPM	2	2.69	11.83	16	8.21	21.92	15.4	24	3.91	6.35	15.52	33
CA	%	9.71	9.17	24.5	16	1.26	2.98	8.1	24	2.93	4.18	13.35	33
CD	PPM	2.27	5.58	22.8	16	0.36	0.18	0.54	24	0.25	0.00	0.25	33
CO	PPM	2.47	3.55	12.78	16	156.77	334.5	918	24	8.15	13.37	25.72	33
CR	PPM	9.06	6.33	28.8	16	57.13	48.24	128	24	10.70	7.29	26.70	33
CUG	PPM	697.56	1109.05	3960	16	2466.96	3273.5	10080	24	1512.09	2912.26	9881.25	33
CUA	%	0	0	0	0	5.88	0.32	6.19	2	2.55	0.42	3.04	2
FE	%	4.67	2.78	9.94	16	4.82	3.11	12.64	24	10.20	6.33	22.01	33
K	%	1.29	1.15	3.36	16	1.53	1.03	2.98	24	2.16	2.31	5.75	33
MG	%	0.8	0.97	2.55	16	1.1	0.99	3.45	24	2.00	1.80	5.30	33
MN	PPM	1939.06	1570.62	5680	16	1068.13	1776.03	5310	24	2520.45	2836.16	10115.00	33
MO	PPM	1.66	1.78	6.12	16	1.19	1.11	2.97	24	35.65	63.98	170.25	33
NA	%	1.77	1.76	5.49	16	2.82	1.29	5.04	24	0.11	0.40	1.62	33
NI	PPM	25.44	15.55	60.8	16	250.67	1013.61	247.83	24	58.50	156.80	76.75	33
P	PPM	974.38	657.75	2880	16	465.83	170.49	798.83	24	1033.33	731.39	2535.00	33
PB	PPM	20.56	35.75	127.8	16	5.71	3.74	12.16	24	5.00	10.36	35.87	33
SR	PPM	290.25	300.31	1140	16	60.63	17.81	86.73	24	182.70	549.46	502.50	33
TI	%	0.22	0.45	1.22	16	0.07	0.07	0.21	24	0.00	0.00	0.00	33
V	PPM	99.38	115.25	366	16	43.63	26.97	89.7	24	104.24	129.14	370.50	33
W	PPM	5.78	7.69	28.4	16	25.73	80.03	76	24	8.71	9.23	28.38	33
ZN	PPM	764.88	1399.59	4970	16	30.85	25.57	89.7	24	37.48	39.87	153.50	33
LA	PPM	9.38	13.85	49.7	16	25.94	20.19	58	24	166.74	253.77	542.75	33
U	PPM	0	0	0	0	5.5	9.41	38.13	15	0.00	0.00	0.00	0
KNR		0.66	0.26	1.15	16	0.85	0.66	1.94	24	0.50	0.00	0.50	33
CCR		22.26	55.03	228	16	53.87	199.61	140	24	23.46	46.69	147.83	33
FTR		0.55	0.11	0.78	16	3.11	7.34	5.8	24	0.50	0.00	0.50	33
PTR		0.57	0.14	0.89	16	2.74	2.93	8.1	24	0.50	0.00	0.50	33
LTR		0.5	0	0.5	16	1.37	1.18	2.98	24	0.50	0.00	0.50	33
WMT		0.46	0.1	0.51	16	1.85	6.91	1.49	24	0.50	0.00	0.50	33

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #3

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

Element	ALL DATA mean	stand. Dev.	95 %	1359 Samples	ROCK TYPE -> HOOV mean	stand. Dev.	95 %	192 Samples	ROCK TYPE -> SLAB mean	stand. Dev.	95 %	191 Samples
AU ppb	91.57	1.4	491.66	670	191.05	1.62	1047.67	86	251.82	1.58	1346.52	95
AG PPM	3.42	1.29	11.97	228	0.94	0.78	2.58	29	11.09	1.64	74.63	39
AL %	6.86	0.57	9.04	1338	7.14	0.52	10.47	188	7.01	0.28	8.79	189
BA PPM	995.03	1.35	2778.46	1356	951.18	1.73	2536.36	192	727.18	0.98	1369.22	191
BE PPM	1.5	0.75	4.37	359	2.41	0.91	7.93	72	1.55	0.75	4.67	126
BI PPM	7.7	0.92	18.78	695	7.59	0.91	13.32	85	5.90	0.76	11.89	102
CA %	4.8	1.07	11.34	1265	5.95	1.17	12.99	164	5.01	0.79	10.24	183
CD PPM	0.74	0.61	1.47	374	0.57	0.24	0.98	29	0.58	0.32	1.02	71
CO PPM	30.43	1.26	108.44	1292	18.62	1.22	62.48	162	29.21	1.09	117.98	184
CR PPM	84.86	1.08	143.18	1357	55.07	1.25	145.21	192	97.36	0.77	145.17	191
CUG PPM	6567.55	2.73	9067.74	1332	10490.22	2.73	15651.16	188	12257.03	2.85	12561.44	191
CUA %	3.38	0.78	10.71	145	3.63	0.79	16.45	36	2.28	0.51	5.63	23
FE %	5.43	0.64	11.81	1332	4.79	0.72	12.28	181	3.02	0.54	7.69	189
K %	4.5	1.14	7.6	1226	5.05	1.6	6.64	134	2.98	0.74	4.89	183
MG %	2.13	0.79	4.57	1211	1.15	1.06	3.16	110	1.30	0.57	2.22	181
MN PPM	1772.7	0.96	4385.11	1346	1272.09	0.9	3709.71	192	1104.12	0.74	2637.92	191
MO PPM	7.94	1.27	39	870	4.63	1.11	18.19	118	11.57	1.40	49.11	125
NA %	2.54	1.41	5.31	1192	3.85	1.03	6.72	166	2.90	0.62	5.37	188
NI PPM	34.81	0.86	91.45	1358	26.51	0.88	74.17	192	30.78	0.63	68.29	191
P PPM	828.42	0.62	1450.96	1332	784.82	0.6	1553.7	186	944.42	0.47	1423.17	189
PB PPM	13.55	1.05	74.5	357	6.56	0.46	12.69	34	12.97	1.09	49.63	77
SR PPM	76.12	1.06	256.95	1359	75.83	0.7	217.92	192	137.87	0.68	286.06	191
TI %	0.25	0.78	0.65	1000	0.15	0.79	0.32	90	0.28	0.55	0.37	167
V PPM	79.99	0.79	237.84	1353	58.54	0.74	114.64	191	71.12	0.81	112.97	190
W PPM	37.47	0.9	138.11	816	77.2	1.24	507.1	64	38.10	1.02	171.53	96
ZN PPM	47.17	1.03	154.12	1292	38.14	1.1	138.13	159	46.06	0.92	117.54	181
LA PPM	56.33	0.88	174.35	918	77.42	0.93	489.26	93	44.60	0.77	119.84	104
U PPM	32.4	0.87	109.32	264	44.84	0.86	157.79	18	29.73	0.84	117.40	37
KNR	18.19	1.97	46.73	1107	6.5	2.11	9.13	115	1.71	1.07	3.82	183
CCR	56.16	2.77	139.5	1268	254.21	2.9	244.64	160	34.58	2.56	97.16	184
FTR	3.43	0.9	11.95	995	5.39	1.1	25.03	90	1.29	0.54	3.48	166
PTR	5.21	0.82	13.99	988	5.94	0.67	16.69	86	4.46	0.63	11.62	166
LTR	3.55	1.09	10.51	713	8.92	1.26	39.95	49	1.89	0.84	4.62	88
WMT	3.69	1.65	19.63	888	22.9	2.27	200.78	72	1.69	1.54	8.95	138

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> OLYM 197				ROCK TYPE -> MICA 140				ROCK TYPE -> HAIL 50			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	37.18	1.12	242.79	115	52.04	1.11	302.35	62	37.48	1.15	213.35	21
AG	PPM	3.79	1.29	19.74	32	3.4	1.36	35.02	17	0.44	0.68	1.43	14
AL	%	6.85	0.58	8.19	193	6.85	0.67	8.38	139	7.30	0.57	8.59	50
BA	PPM	1381.55	1.31	4846.57	197	874.76	1.22	2216.37	138	690.33	0.72	1109.70	50
BE	PPM	0.79	0.48	1.77	30	1.07	0.51	2.71	19	0.00	0.00	0.00	0
BI	PPM	6.64	0.81	17.38	104	6.55	0.82	11.83	76	5.15	0.66	13.50	26
CA	%	4.03	0.83	7.61	185	3.43	1.01	8	137	2.99	0.87	5.20	50
CD	PPM	0.88	0.75	2.36	48	0.63	0.39	1.5	34	0.00	0.00	0.50	15
CO	PPM	32.39	1.2	121.5	194	49.73	1.6	511.53	140	20.05	0.69	58.92	50
CR	PPM	80.04	0.96	122.75	195	87.51	0.93	147.6	140	97.48	0.58	125.62	50
CUG	PPM	2634.05	2.34	9288.03	196	1226.81	2.46	8422.98	127	4445.67	2.83	11747.90	50
CUA	%	5.08	1	31.44	16	3.93	0.85	15.72	7	1.93	0.39	3.10	5
FE	%	6.53	0.51	11.57	193	6.04	0.51	17.86	135	5.87	0.36	9.66	50
K	%	5.46	0.87	8.03	179	5.47	1.14	8.12	138	6.12	0.70	8.22	50
MG	%	2.42	0.62	4.88	187	2.26	0.55	4.21	137	1.84	0.58	3.07	50
MN	PPM	2151.66	0.73	3806.46	197	1797.7	0.89	5104.48	133	2707.98	0.61	4558.50	50
MO	PPM	6.02	0.98	18.17	148	7.53	1.26	42.95	104	3.22	1.04	7.84	27
NA	%	0.76	1.33	3.6	171	1.56	1.39	4.71	118	0.89	1.23	3.12	50
NI	PPM	33.36	0.73	115.74	197	38.81	0.92	213.84	140	21.82	0.87	70.83	50
P	PPM	845.5	0.57	1357.33	191	863.71	0.56	2017.63	138	802.29	0.43	1120.45	50
PB	PPM	21.69	1.33	200.87	47	21.26	1.26	104.78	23	8.55	0.58	17.50	3
SR	PPM	51.46	1	215.1	197	22.19	0.52	51.65	140	17.87	0.43	31.30	50
TI	%	0.22	0.7	0.45	148	0.19	0.65	0.3	108	0.20	0.40	0.39	49
V	PPM	96.06	0.79	270.18	195	70.95	0.54	205.45	139	65.56	0.52	137.83	50
W	PPM	36.47	0.75	90.18	145	32.06	0.76	93.83	108	33.44	0.81	116.67	49
ZN	PPM	47.17	1.04	228.39	196	27.7	0.96	96.63	132	27.78	0.62	70.80	50
LA	PPM	44.11	0.73	113.19	158	72.81	0.87	225.81	119	65.73	1.05	243.21	45
U	PPM	21.56	0.65	67.42	40	37.49	0.72	126.57	13	16.77	0.59	55.24	18
KNR		40.59	1.5	58.32	161	20.7	1.76	40.65	118	31.51	1.45	55.48	50
CCR		19.59	2.4	83.99	193	15.21	2.67	43.05	127	35.63	2.92	100.20	50
FTR		4.05	0.73	11.82	147	4.43	0.8	19.92	106	3.15	0.36	5.31	49
PTR		4.86	0.54	10.19	147	7.04	0.89	30.93	107	4.59	0.49	7.27	49
LTR		2.52	0.87	6.97	123	5.55	1.04	24.91	97	4.02	1.19	14.52	45
WMT		3.5	1.36	10.5	143	4.22	1.45	30.84	102	2.04	0.96	7.99	49

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

element	ROCK TYPE -> URSU 65				ROCK TYPE -> JAZZ 112				ROCK TYPE -> RAM 80			
	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU ppb	75.83	1.28	266.55	27	50.86	1.08	241.69	90	116.93	1.31	438.08	34
AG PPM	1.85	0.94	9.91	12	2.26	0.84	5.28	22	2.81	1.13	10.72	20
AL %	6.57	0.81	9.53	65	6.61	0.5	8.13	112	7.17	0.44	8.44	80
BA PPM	657.32	0.95	1853.95	65	1171.02	0.91	2046.41	112	1067.77	0.92	2466.30	79
BE PPM	1.71	0.83	8.22	10	1.73	0.79	5.92	7	1.02	0.51	2.15	24
BI PPM	6.1	0.61	12.28	22	5.3	0.71	15.7	47	8.20	0.70	22.48	50
CA %	5.73	1.25	13.02	64	3.89	0.77	10.26	108	3.65	1.04	5.79	80
CD PPM	0	0	0.5	7	0.87	0.72	2.93	33	0.60	0.32	1.19	33
CO PPM	27.36	1.13	110.93	65	34.01	1.41	139.46	107	36.27	0.97	94.66	80
CR PPM	100.89	0.93	217.34	65	66.22	1.08	112.66	112	86.29	0.45	142.22	80
CUG PPM	5282.23	2.66	10764.4	64	6512.35	2.84	13633.46	112	9415.64	3.05	9011.01	79
CUA %	3.89	0.22	5.23	4	2.09	0.4	3.68	11	2.59	0.58	6.69	12
FE %	5.88	0.51	12.48	65	6.72	0.49	14.12	109	5.92	0.55	10.75	80
K %	2.55	1.1	4.61	65	6.07	0.74	9.22	110	5.46	1.11	7.28	79
MG %	2.62	0.89	6.63	65	2.33	0.65	5.88	109	2.08	0.75	3.98	80
MN PPM	3771.78	0.91	6766.51	60	1903.66	0.69	4184.37	111	1109.96	0.69	1855.41	80
MO PPM	5.84	0.94	20.98	46	13.84	1.33	58.11	78	32.05	1.86	220.66	41
NA %	2.59	1.46	5.21	63	0.51	1.09	2.66	82	1.65	1.21	3.88	80
NI PPM	28.29	0.97	92.85	65	33.15	0.68	76.92	112	34.10	0.55	67.28	80
P PPM	777.5	0.71	1337.63	61	922.17	0.59	1388.9	111	790.18	0.67	1172.31	78
PB PPM	9.25	0.79	36.03	14	15.11	1.22	120.46	15	14.59	0.90	51.54	15
SR PPM	44.09	0.82	84.68	65	39.8	0.91	264.13	112	57.50	0.82	146.57	80
TI %	0.15	0.7	0.26	59	0.15	0.58	0.48	78	0.35	0.76	1.02	78
V PPM	52.14	0.61	78.72	65	82.87	0.7	311.89	112	107.55	0.78	357.08	80
W PPM	36.49	0.98	219.18	38	33.9	0.81	113.44	87	54.85	1.02	286.22	61
ZN PPM	29.64	0.71	62.05	64	43.77	1	170.12	109	47.62	0.89	129.73	80
LA PPM	67.82	0.89	222.35	42	58.31	0.8	155.42	91	47.28	0.82	104.47	64
U PPM	33.84	0.71	86.92	21	27.63	0.77	91.54	23	81.63	1.35	521.17	24
KNR	6.58	1.73	17.93	63	33.44	1.22	49.77	82	16.52	1.78	39.70	79
CCR	58.89	2.85	152.23	64	71.7	2.94	173.21	107	21.95	2.82	66.05	79
FTR	6.8	0.94	41.69	59	5.33	0.62	11.81	77	2.37	0.71	6.24	78
PTR	7.3	0.8	32.47	58	8.68	0.73	18.26	78	3.62	0.88	8.50	76
LTR	4.93	0.96	10.83	41	5.12	0.86	14.02	66	2.40	1.10	6.96	63
WMT	3.3	1.59	20.89	59	4.22	1.19	17.9	77	4.63	1.75	31.61	69

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

element	ROCK TYPE -> CLEV 14				ROCK TYPE -> QUAR 61				ROCK TYPE -> FAIR 16			
	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU ppb	7.5	0.35	10.73	2	19.9	0.98	121.65	18	28.99	0.63	66.05	5
AG PPM	0	0	0	0	1.16	0.91	2.05	4	2.00	0.48	1.99	1
AL %	6.83	0.52	7.95	14	7.32	0.5	8.62	61	6.37	0.27	7.71	15
BA PPM	1226.58	0.63	1526.82	14	576.77	1.61	1762.77	61	221.12	1.04	797.45	16
BE PPM	0	0	0	0	1.05	0.47	2	10	1.00	0.00	1.00	1
BI PPM	6.14	0.34	11.78	13	6.93	0.68	18.52	37	3.00	0.35	4.29	6
CA %	2.13	0.46	3.97	14	3.15	1.2	8.13	61	4.63	0.35	8.37	15
CD PPM	0.61	0.29	1.01	9	0.77	0.57	2.63	29	0.00	0.00	0.00	0
CO PPM	7.87	0.36	13.09	13	17.78	0.82	48.48	61	9.19	1.07	56.08	12
CR PPM	78.92	0.11	94.21	14	86.28	0.41	137.05	61	14.12	0.64	26.86	16
CUG PPM	19.2	1.67	118.12	12	520.52	2.33	8666.81	59	2235.36	1.55	9038.31	15
CUA %	0	0	0	0	1.64	0.32	2.3	3	1.64	2.69	1.92	1
FE %	5.96	0.28	10.98	14	4.72	0.63	10.56	61	7.72	0.59	22.28	16
K %	6.96	0.61	8.2	14	1.84	1.22	3.93	61	1.93	0.30	2.79	10
MG %	1.64	0.37	2.47	14	2.19	0.68	4.96	61	3.20	0.40	4.63	11
MN PPM	888.26	0.29	1525.38	14	1206.21	0.81	2878.96	61	2140.26	1.02	5261.91	16
MO PPM	1.94	0.58	5.8	12	2.79	0.86	12.5	28	1.35	0.40	2.96	8
NA %	0.34	1.09	1.2	14	3.51	0.98	5.7	61	3.58	0.30	5.92	14
NI PPM	17.06	0.25	24.83	14	29.24	0.81	69.62	61	57.45	0.78	99.34	16
P PPM	1015.48	0.39	2385.24	14	749.65	0.48	1342.45	60	533.87	0.63	1111.00	16
PB PPM	4	1.92	3.92	1	53.61	1.65	367.76	6	4.00	1.92	3.92	1
SR PPM	17.81	0.4	41.74	14	47.9	0.78	158.61	61	133.54	1.07	282.52	16
TI %	0.18	0.28	0.24	14	0.28	0.64	0.56	61	0.00	0.00	0.00	0
V PPM	68.84	0.24	116.9	14	92.01	0.78	354.98	61	151.04	1.21	238.43	16
W PPM	18.57	0.39	37.96	14	20.53	0.6	62.92	47	24.99	0.47	38.23	13
ZN PPM	16.9	0.24	25.44	14	45.24	1.13	169.37	61	77.23	1.08	440.67	16
LA PPM	56.05	0.81	261.32	14	40.91	0.68	91.33	46	35.58	0.90	65.38	4
U PPM	0	0	0	0	37.9	0.91	203.53	14	0.00	0.00	0.00	0
KNR	42.39	0.84	62.76	14	1.61	1.69	4.94	61	0.74	0.46	1.28	9
CCR	0.24	1.65	1.4	11	1.68	1.9	19.27	59	69.13	1.85	173.49	12
FTR	3.8	0.54	13.28	14	2.24	0.75	6.24	61	0.00	0.00	0.00	0
PTR	6.21	0.53	18.77	14	4.57	0.94	15.01	60	0.00	0.00	0.00	0
LTR	3.83	1.02	23.92	14	1.91	0.87	6.16	46	0.00	0.00	0.00	0
WMT	1.27	0.58	4.35	14	1.05	1.01	5.6	51	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA
(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> ARCT 25				ROCK TYPE -> REID 19				ROCK TYPE -> EAGL 22			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	24.31	0.62	64.78	5	32.55	0.68	78.21	13	117.39	1.42	1167.64	15
AG	PPM	1.35	0.77	3.26	4	5.92	0.95	15.53	9	6.63	0.47	11.74	4
AL	%	6.02	0.53	7.96	25	3.39	0.57	6.16	19	6.06	0.49	8.43	21
BA	PPM	4287.31	1.77	7151.59	25	72.56	1	428.35	19	879.63	1.28	2783.70	22
BE	PPM	0.58	0.26	0.99	6	0.84	0.33	1	3	0.00	0.00	1.00	3
BI	PPM	8.4	0.67	20	15	926.35	2.61	4267.18	10	27.39	1.47	243.55	17
CA	%	5.61	0.78	18.3	25	0.93	2.15	3.4	8	7.28	0.77	18.07	20
CD	PPM	0.59	0.27	1	11	1.2	0.73	2.98	4	192.00	27.64	200034.80	1
CO	PPM	26.58	0.94	179.95	25	37.13	1.71	553.58	19	56.68	1.86	825.15	21
CR	PPM	74.95	0.62	111.25	25	62.37	1	174.49	19	9.21	0.65	18.17	22
CUG	PPM	1273.87	2.75	9556.55	24	9409.18	1.53	9894.02	19	5691.18	1.53	12713.10	22
CUA	%	3.66	0.62	6.39	2	5.21	0.6	10.33	6	2.67	0.79	7.71	5
FE	%	5.19	0.74	10.25	25	4.18	0.62	10.04	18	4.19	0.66	8.27	22
K	%	3.08	1.14	6.76	25	1.84	1.07	5.36	11	3.32	0.46	4.99	17
MG	%	3.44	0.7	11.83	25	1.67	0.33	2.57	15	1.42	0.38	3.22	13
MN	PPM	3085.6	0.57	5507.11	25	181.23	1.15	1438.91	19	2442.42	0.83	8064.67	22
MO	PPM	3.14	0.99	10.79	8	1.56	0.43	3.07	14	13.19	1.18	84.21	13
NA	%	3.92	1.74	5.45	25	0.11	0.4	0.24	6	2.34	0.48	5.25	16
NI	PPM	26.25	0.96	91.05	25	139.62	1.35	1393.53	19	165.20	1.58	1792.08	22
P	PPM	785.61	0.84	2145.16	25	312.23	1.04	1090.26	18	899.59	0.47	1458.62	21
PB	PPM	5.7	0.67	12.54	6	9.81	0.63	21.62	9	27.86	1.15	200.61	8
SR	PPM	106.67	0.86	351.41	25	6.12	0.5	13.37	19	167.97	0.93	336.52	22
TI	%	0.23	0.97	0.79	25	0.05	0.74	0.11	6	0.00	0.00	0.00	0
V	PPM	73.38	0.81	205.52	25	25.3	0.64	55.13	19	60.80	0.61	91.88	21
W	PPM	44.22	1.03	254.06	19	63.27	0.72	108.15	4	66.66	1.46	725.81	9
ZN	PPM	49.75	0.98	131.29	25	72.02	1.12	325.9	19	57.55	1.06	154.27	18
LA	PPM	37.3	0.84	115.92	13	20.13	0.47	32.45	14	70.10	1.18	353.47	9
U	PPM	26.69	0.19	30.34	3	0	0	0	0	0.00	0.00	0.00	0
KNR		14.13	2.12	42.82	25	9.38	1.1	17.47	6	2.21	0.84	3.77	13
CCR		2.32	2.19	18.96	24	110.2	1.6	456.61	19	243.44	2.42	191.90	21
FTR		4.03	0.9	13.09	25	24.89	1.46	103.15	6	0.00	0.00	0.00	0
PTR		5.28	0.82	20.35	25	4.38	1.22	9.42	5	0.00	0.00	0.00	0
LTR		2.37	1.07	8.63	13	2.73	0.32	3.55	5	0.00	0.00	0.00	0
WMT		3.89	1.39	36.98	19	13.23	1.17	42.52	3	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted Detection Limit Samples Ignored No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> PLUM 16				ROCK TYPE -> MMM 24				ROCK TYPE -> TVA 33			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	10	5.3	9.61	1	119.14	1.67	526.25	20	181.12	1.38	904.16	17
AG	PPM	2.1	0.35	3	2	2.19	1.01	5.61	7	3.36	0.72	9.95	7
AL	%	5.93	0.41	9.58	15	8.36	0.25	10.79	24	5.57	0.67	8.89	26
BA	PPM	336.86	0.93	1044.8	16	372.18	0.84	811.28	24	1274.37	1.53	7349.52	33
BE	PPM	1.76	0.55	4.18	5	1.31	0.65	3.72	14	0.00	0.00	1.00	2
BI	PPM	4.81	0.73	11.91	4	9.17	1.06	53.9	15	5.78	0.88	24.42	18
CA	%	11.94	0.75	28.92	13	1.3	1.32	9.91	17	4.72	0.83	15.18	20
CD	PPM	10.61	0.72	26.86	3	0.55	0.22	0.91	9	0.00	0.00	0.00	0
CO	PPM	5.09	0.94	13.83	7	238.86	2.12	1399.6	21	8.85	1.18	26.04	29
CR	PPM	8.9	0.56	30.36	16	69.37	1.32	140.53	24	11.08	0.74	24.74	33
CUG	PPM	1215.62	2.3	2735.38	16	3116.7	1.68	11706.29	24	2382.68	2.35	9894.74	33
CUA	%	0	0	0	0	5.88	0.05	6.23	2	2.54	0.16	3.05	2
FE	%	4.63	0.56	10.06	16	4.79	0.6	12.22	24	10.73	0.65	23.79	32
K	%	2.06	0.37	3.47	10	1.91	0.61	3.36	20	4.03	0.52	6.22	18
MG	%	1.81	0.3	2.65	7	1.4	0.65	3.51	19	2.63	0.57	5.45	25
MN	PPM	1943.04	0.79	6055.52	16	886.87	1.03	5572.43	24	3310.54	1.44	11717.21	33
MO	PPM	2.5	0.71	6.25	9	1.98	0.55	5.24	11	49.94	1.68	185.18	28
NA	%	2.82	0.48	5.33	10	2.83	0.46	5.03	24	1.67	0.02	1.69	2
NI	PPM	25.1	0.54	58.76	16	79.95	1.22	122.76	24	46.62	1.03	73.41	32
P	PPM	959.69	0.51	3360.46	16	469.65	0.41	819.52	24	1064.14	0.74	2537.65	33
PB	PPM	26.05	1.06	126.28	11	7.05	0.53	13.08	19	16.95	0.79	47.24	8
SR	PPM	281.97	0.9	1149.42	16	61.08	0.34	86.66	24	113.15	1.39	478.47	33
TI	%	1.16	0.1	1.3	3	0.13	0.58	0.22	13	0.00	0.00	0.00	0
V	PPM	99.74	1.07	385.19	16	48.83	0.94	96	24	101.84	0.92	331.15	33
W	PPM	20.09	0.45	32.64	3	106.02	1.21	420.16	5	17.01	0.46	38.81	14
ZN	PPM	782.57	2.04	4466.32	16	38.77	0.53	97.2	19	39.27	0.83	152.34	31
LA	PPM	30.61	0.59	53.3	4	33.07	0.7	61.04	19	213.88	1.41	591.49	28
U	PPM	0	0	0	0	25	0.69	41.75	2	0.00	0.00	0.00	0
KNR		0.93	0.37	1.21	6	1.01	0.97	2.22	20	0.00	0.00	0.00	0
CCR		44.2	1.19	229.37	7	33.16	2.39	166.04	21	29.16	1.94	139.24	29
FTR		0.75	0.11	0.87	3	4.14	0.81	19.56	13	0.00	0.00	0.00	0
PTR		0.86	0.06	0.92	3	4.55	0.48	10.37	13	0.00	0.00	0.00	0
LTR		0	0	0	0	2.28	0.57	5.09	12	0.00	0.00	0.00	0
WMT		0.21	0.13	0.23	2	1.5	2.01	35.61	7	0.00	0.00	0.00	0

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

TABLE #4

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

		ALL DATA			1359	ROCK TYPE -> HOOV			192	ROCK TYPE -> SLAB			191
Element		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	34.8	1.64	242.64	1359	54.63	1.86	537.64	192	101.42	2.02	619.27	191
AG	PPM	0.3	1.14	2.42	1359	0.18	0.76	0.82	192	0.67	1.56	7.00	191
AL	%	8.97	1.04	9.25	1359	10.28	1.14	11.16	192	8.50	0.79	9.16	191
BA	PPM	1027.8	1.38	2783.31	1359	951.18	1.73	2536.36	192	727.18	0.98	1369.22	191
BE	PPM	0.5	0.77	2.09	1359	0.87	1.06	3.64	192	1.09	0.95	3.75	191
BI	PPM	3.94	1.04	11.07	1359	3.39	1	10.21	192	3.39	0.93	9.55	191
CA	%	10.68	1.9	11.9	1359	25.78	2.5	13.24	192	8.93	1.53	10.69	191
CD	PPM	0.37	0.51	0.5	1359	0.29	0.3	0.5	192	0.37	0.43	0.50	191
CO	PPM	32.16	1.42	104.97	1359	18.17	1.53	51.74	192	31.09	1.26	113.77	191
CR	PPM	85.51	1.09	143.01	1359	55.07	1.25	145.21	192	97.36	0.77	145.17	191
CUG	PPM	7507.23	2.82	14775.52	1359	12601.1	2.85	13847.22	192	12257.03	2.85	12561.44	191
CUA	%	3.38	0.78	10.71	145	3.63	0.79	16.45	36	2.28	0.51	5.63	23
FE	%	7.4	1.14	12.13	1359	10.42	1.69	12.37	192	3.46	0.83	7.36	191
K	%	12.27	2.12	8.7	1359	16.69	2.92	7.28	192	4.80	1.42	4.91	191
MG	%	5.45	1.94	5.06	1359	1.97	2.54	2.69	192	2.00	1.33	2.29	191
MN	PPM	2172.89	1.21	4418.97	1359	1272.09	0.9	3709.71	192	1104.12	0.74	2637.92	191
MO	PPM	4.58	1.38	27.5	1359	2.68	1.17	14.12	192	6.66	1.53	33.24	191
NA	%	5.17	2.17	5.97	1359	13.56	2.3	7.55	192	3.51	0.99	5.32	191
NI	PPM	34.9	0.86	91.16	1359	26.51	0.88	74.17	192	30.78	0.63	68.29	191
P	PPM	1002.83	1	1473.85	1359	1046.57	1.14	1615.24	192	1057.73	0.75	1475.89	191
PB	PPM	2.99	1.05	13.12	1359	1.75	0.7	7.68	192	4.48	1.19	17.64	191
SR	PPM	76.12	1.06	256.95	1359	75.83	0.7	217.92	192	137.87	0.68	286.06	191
TI	%	0.31	1.72	0.58	1359	0.08	1.65	0.28	192	0.38	1.38	0.41	191
V	PPM	82.22	0.85	243.66	1359	60.16	0.81	116.22	192	73.26	0.88	116.51	191
W	PPM	24.01	1.33	97.02	1359	17.23	1.45	153.75	192	18.05	1.32	129.54	191
ZN	PPM	54.98	1.33	146.52	1359	48.34	1.73	132.81	192	54.99	1.28	107.86	191
LA	PPM	46.2	1.47	139.43	1359	40.45	1.63	146.68	192	27.37	1.41	100.64	191
U	PPM	7.68	1.05	41.79	1019	7.24	1.07	42.64	92	6.39	0.97	38.80	167
KNR		11.51	1.89	41.07	1359	2.4	1.65	6.58	192	1.64	1.05	3.85	191
CCR		42.03	2.69	124.79	1359	125.36	2.76	246.05	192	30.25	2.52	100.13	191
FTR		2.57	1.02	8.56	1359	2.26	1.16	10.07	192	1.18	0.57	3.09	191
PTR		4.1	1.14	11.91	1359	2.83	1.21	12.12	192	4.19	0.89	9.21	191
LTR		1.76	1.04	6.99	1359	1.59	1.12	8.65	192	1.04	0.75	3.71	191
WMT		1.94	1.37	11.08	1359	2.65	1.53	24.91	192	1.21	1.31	6.32	191

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limiit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> OLYM 197				ROCK TYPE -> MICA 140				ROCK TYPE -> HAIL 50			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	20.33	1.33	140.7	197	19.68	1.41	108.32	140	13.01	1.26	62.63	50
AG	PPM	0.31	1.16	2.44	197	0.22	0.99	108.32	140	0.18	0.67	0.58	50
AL	%	9.68	1.15	8.92	197	7.73	0.89	8.86	140	7.30	0.57	8.59	50
BA	PPM	1381.55	1.31	4846.57	197	1076.49	1.45	2319.58	140	690.33	0.72	1109.70	50
BE	PPM	0.32	0.42	0.73	197	0.34	0.49	0.77	140	0.00	0.00	0.25	50
BI	PPM	3.69	0.98	11.39	197	3.73	0.98	8.08	140	3.01	0.86	10.96	50
CA	%	8.41	1.72	7.4	197	4.35	1.33	8.14	140	2.99	0.87	5.20	50
CD	PPM	0.37	0.56	0.91	197	0.33	0.41	0.5	140	0.32	0.32	0.53	50
CO	PPM	33.23	1.26	117.29	197	49.73	1.6	511.53	140	20.05	0.69	58.92	50
CR	PPM	84.56	1.06	126.86	197	87.51	0.93	147.6	140	97.48	0.58	125.62	50
CUG	PPM	2745.46	2.37	9113.13	197	1554.94	2.73	6206.39	140	4445.67	2.83	11747.90	50
CUA	%	5.08	1	31.44	16	3.93	0.85	15.72	7	1.93	0.39	3.10	5
FE	%	9.23	1.12	11.68	197	10.74	1.39	16.78	140	5.87	0.36	9.66	50
K	%	17.36	2.08	8.71	197	6.56	1.36	8.44	140	6.12	0.70	8.22	50
MG	%	4.17	1.45	5.36	197	2.87	1.02	4.64	140	1.84	0.58	3.07	50
MN	PPM	2151.66	0.73	3806.46	197	4942.72	1.91	5467.96	140	2707.98	0.61	4558.50	50
MO	PPM	4.72	1.21	15.87	197	5.33	1.37	29.23	140	1.71	1.01	4.43	50
NA	%	1.03	1.87	3.43	197	2.8	2.16	4.28	140	0.89	1.23	3.12	50
NI	PPM	33.36	0.73	115.74	197	38.81	0.92	213.84	140	21.82	0.87	70.83	50
P	PPM	1134.44	1.12	1460.53	197	996.76	0.88	2119.23	140	802.29	0.43	1120.45	50
PB	PPM	3.25	1.14	25.32	197	2.37	0.99	15	140	1.27	0.49	2.82	50
SR	PPM	51.46	1	215.1	197	22.19	0.52	51.65	140	17.87	0.43	31.30	50
TI	%	0.27	1.64	0.4	197	0.23	1.55	0.33	140	0.22	0.64	0.39	50
V	PPM	102.95	0.93	275.01	197	74.32	0.67	196.92	140	65.56	0.52	137.83	50
W	PPM	31.39	1.24	82.46	197	28.02	1.16	75.38	140	33.37	0.87	111.25	50
ZN	PPM	47.99	1.08	229.3	197	30.89	1.24	86.73	140	27.78	0.62	70.80	50
LA	PPM	42.66	1.23	91.47	197	77.39	1.34	86.73	140	65.75	1.29	258.25	50
U	PPM	6.35	0.92	29.79	152	4.63	0.82	21.7	113	6.98	0.90	20.30	50
KNR		40.19	1.86	55.88	197	15.85	1.8	39.94	140	31.51	1.45	55.48	50
CCR		18.33	2.38	78.46	197	11.23	2.54	39.44	140	35.63	2.92	100.20	50
FTR		3.27	1.01	7.87	197	3.58	1.06	15.1	140	3.13	0.43	5.33	50
PTR		4.19	1.04	8.65	197	5.95	1.23	15.1	140	4.58	0.56	7.41	50
LTR		1.65	0.91	5.5	197	3.83	1.22	17.49	140	3.55	1.21	13.25	50
WMT		2.29	1.24	8.01	197	2.66	1.33	23.22	140	2.00	0.96	7.79	50

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> URSU			65	ROCK TYPE -> JAZZ			112	ROCK TYPE -> RAM			80
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	23.43	1.53	204.13	65	44.79	1.37	196.48	112	37.98	1.71	298.42	80
AG	PPM	0.27	1.05	1.65	65	0.34	1.16	2.83	112	0.46	1.30	3.69	80
AL	%	6.57	0.81	9.53	65	6.61	0.5	8.13	112	7.17	0.44	8.44	80
BA	PPM	657.32	0.95	1853.95	65	1171.02	0.91	2046.41	112	1335.62	1.22	2127.74	80
BE	PPM	0.4	0.66	1.27	65	0.31	0.44	0.49	112	0.45	0.65	1.51	80
BI	PPM	2.47	0.85	7.93	65	2.57	0.84	8.79	112	5.57	1.06	13.53	80
CA	%	6.88	1.46	13.54	65	6.11	1.4	10.15	112	3.65	1.04	5.79	80
CD	PPM	0.28	0.21	0.46	65	0.4	0.6	1.02	112	0.39	0.45	0.88	80
CO	PPM	27.36	1.13	110.93	65	35.09	1.53	113.1	112	36.27	0.97	94.66	80
CR	PPM	100.89	0.93	217.34	65	66.22	1.08	112.66	112	86.29	0.45	142.22	80
CUG	PPM	5850.93	2.73	8593.22	65	6512.35	2.84	13633.46	112	9855.29	3.09	16614.71	80
CUA	%	3.89	0.22	5.23	4	2.09	0.4	3.68	11	2.59	0.58	6.69	12
FE	%	5.88	0.51	12.48	65	10.59	1.24	13.79	112	5.92	0.55	10.75	80
K	%	2.55	1.1	4.61	65	8.01	1.17	9.48	112	6.40	1.31	7.65	80
MG	%	2.62	0.89	6.63	65	3.12	1.15	5.72	112	2.08	0.75	3.98	80
MN	PPM	22127.51	2.43	7508.44	65	2344.45	1.02	4105.17	112	1109.96	0.69	1855.41	80
MO	PPM	4.32	1.21	19.3	65	9.45	1.58	42.99	112	9.20	1.82	115.03	80
NA	%	3.16	1.69	5.43	65	0.7	2.01	2.45	112	1.65	1.21	3.88	80
NI	PPM	28.29	0.97	92.85	65	33.15	0.68	76.92	112	34.10	0.55	67.28	80
P	PPM	1280.93	1.49	1222.68	65	1011.18	0.8	1518.12	112	990.34	1.09	1167.14	80
PB	PPM	2.2	0.87	10.08	65	1.82	0.82	6.13	112	2.46	0.97	15.40	80
SR	PPM	44.09	0.82	84.68	65	39.8	0.91	264.13	112	57.50	0.82	146.57	80
TI	%	0.17	1.14	0.26	65	0.15	1.55	0.23	112	0.39	0.97	1.03	80
V	PPM	52.14	0.61	78.72	65	82.87	0.7	311.89	112	107.55	0.78	357.08	80
W	PPM	21.51	1.32	97.64	65	29.6	1.19	99.62	112	47.52	1.41	291.99	80
ZN	PPM	31.08	0.85	71.01	65	47.61	1.18	169.16	112	47.62	0.89	129.73	80
LA	PPM	54.34	1.56	172.79	65	59.08	1.32	151.19	112	44.96	1.27	98.14	80
U	PPM	11.19	1.19	60.72	62	7.85	1.04	33.89	80	14.44	1.40	89.70	80
KNR		6.2	1.71	18.58	65	34.59	1.86	54.05	112	16.18	1.78	38.60	80
CCR		55.37	2.83	159.88	65	58.9	2.88	162.71	112	21.02	2.81	65.25	80
FTR		6.49	1.1	37.34	65	4.21	1.13	10.45	112	2.33	0.73	5.91	80
PTR		7.14	1.05	28.83	65	7.37	1.34	16.86	112	3.48	0.93	7.90	80
LTR		3.12	1.17	9.29	65	3.13	1.17	9.36	112	1.86	1.05	6.77	80
WMT		2.83	1.53	21.07	65	2.69	1.19	12.41	112	3.54	1.65	22.91	80

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA
(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> CLEV 14				ROCK TYPE -> QUAR 61				ROCK TYPE -> FAIR 16			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	3.12	0.39	7.02	14	6.04	0.91	32.35	61	9.14	1.10	59.74	16
AG	PPM	0	0	0.1	14	0.13	0.56	0.21	61	0.16	0.73	0.76	16
AL	%	6.83	0.52	7.95	14	7.32	0.5	8.62	61	16.03	1.74	9.37	16
BA	PPM	1226.58	0.63	1526.82	14	576.77	1.61	1762.77	61	221.12	1.04	797.45	16
BE	PPM	0	0	0.25	14	0.36	0.53	1.03	61	0.29	0.34	0.60	16
BI	PPM	5.96	0.56	11.33	14	4.57	0.99	16.03	61	1.71	0.55	4.06	16
CA	%	2.13	0.46	3.97	14	3.15	1.2	8.13	61	10.51	1.67	8.22	16
CD	PPM	0.48	0.47	1.02	14	0.48	0.62	1.51	61	0.00	0.00	0.25	16
CO	PPM	8.18	0.77	11.84	14	17.78	0.82	48.48	61	7.27	1.38	74.38	16
CR	PPM	78.92	0.11	94.21	14	86.28	0.41	137.05	61	14.12	0.64	26.86	16
CUG	PPM	15.68	1.76	121.73	14	549.96	2.42	3977.13	61	4917.16	2.31	10830.14	16
CUA	%	0	0	0	0	1.64	0.32	2.3	3	1.64	2.69	1.92	1
FE	%	5.96	0.28	10.98	14	4.72	0.63	10.56	61	7.72	0.59	22.28	16
K	%	6.96	0.61	8.2	14	1.84	1.22	3.93	61	6.43	2.87	3.12	16
MG	%	1.64	0.37	2.47	14	2.19	0.68	4.96	61	16.08	2.98	7.41	16
MN	PPM	888.26	0.29	1525.38	14	1206.21	0.81	2878.96	61	2140.26	1.02	5261.91	16
MO	PPM	1.74	0.68	5.6	14	1.38	0.89	5.93	61	0.91	0.54	2.71	16
NA	%	0.34	1.09	1.2	14	3.51	0.98	5.7	61	12.58	2.18	6.55	16
NI	PPM	17.06	0.25	24.83	14	29.24	0.81	69.62	61	57.45	0.78	99.34	16
P	PPM	1015.48	0.39	2385.24	14	876.34	0.86	1350.74	61	533.87	0.63	1111.00	16
PB	PPM	1.18	0.36	2.55	14	2.13	0.98	7.5	61	1.15	0.34	2.39	16
SR	PPM	17.81	0.4	41.74	14	47.9	0.78	158.61	61	133.54	1.07	282.52	16
TI	%	0.18	0.28	0.24	14	0.28	0.64	0.56	61	0.01	0.00	0.00	16
V	PPM	68.84	0.24	116.9	14	92.01	0.78	354.98	61	151.04	1.21	238.43	16
W	PPM	18.57	0.39	37.96	14	17.52	0.97	49.13	61	23.14	0.96	33.18	16
ZN	PPM	16.9	0.24	25.44	14	45.24	1.13	169.37	61	77.23	1.08	440.67	16
LA	PPM	56.05	0.81	261.32	14	37.49	1.25	90.55	61	7.82	1.08	49.12	16
U	PPM	2.5	0	2.5	14	7.48	1.07	43.1	61	0.00	0.00	0.00	0
KNR		42.39	0.84	62.76	14	1.61	1.69	4.94	61	0.63	0.37	1.21	16
CCR		0.38	1.67	1.04	14	1.62	1.87	19.37	61	52.67	2.17	114.38	16
FTR		3.8	0.54	13.28	14	2.24	0.75	6.24	61	0.00	0.00	0.50	16
PTR		6.21	0.53	18.77	14	4.52	0.96	14.49	61	0.00	0.00	0.50	16
LTR		3.83	1.02	23.92	14	1.5	0.86	5.11	61	0.00	0.00	0.50	16
WMT		1.27	0.58	4.35	14	0.93	0.93	5.08	61	0.00	0.00	0.50	16

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limiit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> ARCT 25				ROCK TYPE -> REID 19				ROCK TYPE -> EAGL 22			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	5.56	0.88	24.88	25	25.53	1.22	76.2	19	80.91	1.79	258.39	22
AG	PPM	0.22	0.91	1.52	25	3.18	1.94	11.69	19	0.70	1.59	7.44	22
AL	%	6.02	0.53	7.96	25	3.39	0.57	6.16	19	11.98	1.53	8.48	22
BA	PPM	4287.31	1.77	7151.59	25	72.56	1	428.35	19	879.63	1.28	2783.70	22
BE	PPM	0.32	0.37	0.52	25	0.33	0.44	0.78	19	0.34	0.48	0.79	22
BI	PPM	5.49	1.07	13.81	25	241.88	2.78	2435.14	19	20.01	1.61	92.91	22
CA	%	5.61	0.78	18.3	25	0.16	2.15	2.95	19	23.61	2.14	21.97	22
CD	PPM	0.4	0.44	0.92	25	0.4	0.63	1.28	19	0.85	1.38	0.34	22
CO	PPM	26.58	0.94	179.95	25	37.13	1.71	553.58	19	55.50	1.93	1142.43	22
CR	PPM	74.95	0.62	111.25	25	62.37	1	174.49	19	9.21	0.65	18.17	22
CUG	PPM	1301.51	2.84	7903.81	25	9409.18	1.53	9894.02	19	5691.18	1.53	12713.10	22
CUA	%	3.66	0.62	6.39	2	5.21	0.6	10.33	6	2.67	0.79	7.71	5
FE	%	5.19	0.74	10.25	25	7.97	1.58	10.24	19	4.19	0.66	8.27	22
K	%	3.08	1.14	6.76	25	3.05	2.77	3.87	19	17.78	2.71	5.44	22
MG	%	3.44	0.7	11.83	25	5.7	2.36	2.67	19	3.82	2.76	2.21	22
MN	PPM	3085.6	0.57	5507.11	25	181.23	1.15	1438.91	19	2442.42	0.83	8064.67	22
MO	PPM	1.11	0.85	5.07	25	1.29	0.59	2.89	19	7.57	1.57	25.50	22
NA	%	3.92	1.74	5.45	25	0.03	1.42	0.22	19	10.48	2.72	5.71	22
NI	PPM	26.25	0.96	91.05	25	139.62	1.35	1393.53	19	165.20	1.58	1792.08	22
P	PPM	785.61	0.84	2145.16	25	373.05	1.4	1224.88	19	1380.97	1.29	1501.97	22
PB	PPM	1.87	0.73	8.32	25	4.99	1.13	16.55	19	7.61	1.48	30.60	22
SR	PPM	106.67	0.86	351.41	25	6.12	0.5	13.37	19	167.97	0.93	336.52	22
TI	%	0.23	0.97	0.79	25	0.02	1.07	0.09	19	0.01	0.00	0.00	22
V	PPM	73.38	0.81	205.52	25	25.3	0.64	55.13	19	76.41	1.13	97.08	22
W	PPM	36.13	1.35	160.94	25	10.08	1.26	82.55	19	18.14	1.47	145.88	22
ZN	PPM	49.75	0.98	131.29	25	72.02	1.12	325.9	19	81.54	1.88	146.09	22
LA	PPM	19.98	1.32	95.29	25	16.82	0.96	35.87	19	22.45	1.52	264.36	22
U	PPM	4.43	0.77	21.72	25	0	0	2.5	6	0.00	0.00	0.00	0
KNR		14.13	2.12	42.82	25	2.28	1.26	16.01	19	1.41	0.85	3.59	22
CCR		2.23	2.15	19.03	25	110.2	1.6	456.61	19	234.91	2.48	249.40	22
FTR		4.03	0.9	13.09	25	4.31	1.61	47.93	19	0.00	0.00	0.50	22
PTR		5.28	0.82	20.35	25	1.11	0.91	7.14	19	0.00	0.00	0.50	22
LTR		1.28	0.92	5.88	25	1.01	0.74	3.49	19	0.00	0.00	0.50	22
WMT		2.69	1.3	31.94	25	1.35	1.08	7.35	19	0.00	0.00	0.50	22

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

::

Fairchild Project Statistics - 1992-1993 Rock Sample Data - December 1993

Length Weighted | 1/2 Detection Limit Used | No Recovery Weighting Used

NATURAL LOG DATA

(* - indicates only 1992 sample data)

FILE=93STATDT

	element	ROCK TYPE -> PLUM 16				ROCK TYPE -> MMM 24				ROCK TYPE -> TVA 33			
		mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples	mean	stand. Dev.	95 %	Samples
AU	ppb	2.88	0.34	5.96	16	95.98	1.8	710.26	24	87.98	1.96	678.95	33
AG	PPM	0.24	0.99	1.61	16	0.49	1.3	3.31	24	0.50	1.38	5.01	33
AL	%	14.28	1.74	11.61	16	8.36	0.25	10.79	24	41.05	2.84	12.58	33
BA	PPM	336.86	0.93	1044.8	16	372.18	0.84	811.28	24	1274.37	1.53	7349.52	33
BE	PPM	0.65	0.89	2.77	16	0.85	0.87	2.32	24	0.29	0.33	0.59	33
BI	PPM	1.74	0.68	5.53	16	5.5	1.17	16.27	24	3.28	0.94	17.19	33
CA	%	94.02	3.01	39.89	16	2.03	2.42	8.65	24	27.53	3.25	12.88	33
CD	PPM	1.23	1.4	12.2	16	0.36	0.4	0.55	24	0.00	0.00	0.25	33
CO	PPM	2.13	1.13	13.54	16	251.28	2.4	1104.55	24	8.01	1.32	26.25	33
CR	PPM	8.9	0.56	30.36	16	69.37	1.32	140.53	24	11.08	0.74	24.74	33
CUG	PPM	1215.62	2.3	2735.38	16	3116.7	1.68	11706.29	24	2382.68	2.35	9894.74	33
CUA	%	0	0	0	0	5.88	0.05	6.23	2	2.54	0.16	3.05	2
FE	%	4.63	0.56	10.06	16	4.79	0.6	12.22	24	18.74	1.43	24.68	33
K	%	6.97	2.9	4.09	16	5.83	2.22	3.13	24	21.12	3.29	8.87	33
MG	%	2.22	2.91	2.55	16	3.93	2.28	4.27	24	13.13	2.66	6.16	33
MN	PPM	1943.04	0.79	6055.52	16	886.87	1.03	5572.43	24	3310.54	1.44	11717.21	33
MO	PPM	1.55	0.86	6.05	16	1.13	0.72	3.5	24	47.24	1.94	195.20	33
NA	%	11.01	3.04	5.99	16	2.83	0.46	5.03	24	0.02	1.39	0.18	33
NI	PPM	25.1	0.54	58.76	16	79.95	1.22	122.76	24	51.10	1.22	78.11	33
P	PPM	959.69	0.51	3360.46	16	469.65	0.41	819.52	24	1064.14	0.74	2537.65	33
PB	PPM	19.7	1.54	117.05	16	6.13	0.88	13.44	24	3.54	1.15	29.16	33
SR	PPM	281.97	0.9	1149.42	16	61.08	0.34	86.66	24	113.15	1.39	478.47	33
TI	%	0.11	2.12	1.63	16	0.09	1.61	0.26	24	0.00	0.00	0.00	33
V	PPM	99.74	1.07	385.19	16	48.83	0.94	96	24	101.84	0.92	331.15	33
W	PPM	4.96	0.8	22.91	16	11.79	1.37	75.97	24	8.37	0.94	26.56	33
ZN	PPM	782.57	2.04	4466.32	16	62.09	1.77	104.18	24	47.15	1.25	148.82	33
LA	PPM	7.69	1.05	44.97	16	29.93	1.14	64.05	24	228.64	1.80	635.20	33
U	PPM	0	0	0	0	4.35	0.75	21.06	15	0.00	0.00	0.00	0
KNR		0.65	0.35	1.18	16	0.9	0.89	2	24	0.00	0.00	0.50	33
CCR		17.9	2.05	164.3	16	23.29	2.3	154.95	24	23.37	1.97	170.08	33
FTR		0.55	0.16	0.78	16	2.32	1.07	4.5	24	0.00	0.00	0.50	33
PTR		0.57	0.21	0.92	16	2.81	1.1	8.92	24	0.00	0.00	0.50	33
LTR		0	0	0.5	16	1.34	0.79	3.23	24	0.00	0.00	0.50	33
WMT		0.47	0.3	0.52	16	0.78	1.12	0.57	24	0.00	0.00	0.50	33

Produced by GEO-LOGIC SYSTEM and QUATTRO PRO

APPENDIX G

GEOPHYSICAL REPORT

LOGISTICAL REPORT

INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

FAIRCHILD PROJECT

HOOVER, EAGLE, MICA, OLYMPIC, AND SLAB NW GRIDS

WERNECKE MOUNTAINS AREA, YUKON

on behalf of

WESTMIN RESOURCES LIMITED
904 - 1055 Dunsmuir Street
Vancouver, B.C. V7X 1C4

Field work completed: June 18 to 29, 1993

by

Alan Scott, Geophysicist
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

July 7, 1993

TABLE OF CONTENTS

		page
1	Introduction	1
2	Survey coverage	1
3	Personnel	1
4	Instrumentation and Procedures	2
5	Recommendations	2

Appendix

Statement of Qualifications rear of report

Maps included with report

Chargeability/resistivity pseudosections, a=25/n=1-5, Hoover map pocket 1
Chargeability/resistivity pseudosections, a=25/n=1-5, Eagle map pocket 2
Chargeability/resistivity pseudosections, a=75/n=1-4, Mica map pocket 3
Chargeability/resistivity pseudosections, a=75/n=1-4, Olympic map pocket 4
Chargeability/resistivity pseudosections, a=75/n=1-4, Slab NW map pocket 5

Magnetometer Survey - Data Postings - Hoover, Eagle map pocket 6
Magnetometer Survey - Data Listings - Mica, Olympic, Slab NW map pocket 7

Chainage Notes - Hoover, Eagle, Mica, Olympic, Slab NW map pocket 7
Floppy disk - all IP and mag survey data (ASCII) map pocket 7

Accompanying maps
(originals, vellums, three blackline copies)

Stacked pseudosections	a=25/n=1-5,	Hoover	map roll
Stacked pseudosections	a=25/n=1-5,	Eagle	map roll
Stacked pseudosections	a=75/n=1-4,	Mica	map roll
Stacked pseudosections	a=75/n=1-4,	Olympic	map roll
Stacked pseudosections	a=75/n=1-4,	Slab NW	map roll
Chargeability Contour Plan	a=25/n=1	Hoover	map roll
Resistivity Contour Plan	a=25/n=1	Hoover	map roll
Chargeability Contour Plan	a=25/n=1	Eagle	map roll
Resistivity Contour Plan	a=25/n=1	Eagle	map roll
Magnetometer Profiles		Hoover	map roll
Magnetometer Contour Plan		Hoover	map roll
Magnetometer Profiles		Eagle	map roll
Magnetometer Contour Plan		Eagle	map roll
Magnetometer Profiles		Mica	map roll
Magnetometer Profiles		Olympic	map roll
Magnetometer Profiles		Slab NW	map roll

1. INTRODUCTION

Induced polarization/resistivity (IP) and magnetometer (mag) surveys were performed on the Fairchild Lake Project, Yukon, in the period June 18 to 29, 1993. The surveys were conducted by Scott Geophysics Ltd. on behalf of Westmin Resources Limited.

The surveys were performed on portions of five separate grids, referred to as Hoover, Eagle, Mica, Olympic, and Slab NW. This report describes the instrumentation and procedures, and presents the results of the surveys.

The pole dipole array was used for the induced polarization survey, with an "a" spacing of 25 meters and "n" separations of 1 to 5 on the Hoover and Eagle Grids, and with an "a" spacing of 75 meters and "n" separations of 1 to 4 on the Mica, Olympic, and Slab NW grids. The current electrode was to the west of the receiving electrodes on all grids except for Mica, for which it was to the east.

Magnetometer readings were taken at a 12.5 meter reading interval for the Hoover and Eagle Grids, and at a 25 meter interval for the Mica, Olympic, and Slab NW Grids. All readings were corrected for diurnal drift with a fixed base station.

2. SURVEY LOCATION AND COVERAGE

The Fairchild Project is located in the Werneke Mountains Area, Yukon.

IP survey coverage totalled 15.1 kms (5.3 at Hoover, 4.1 at Eagle, 2.1 at Mica, 1.7 at Olympic, and 1.9 at Slab.

Mag survey coverage totalled 25.0 kms (13.9 at Hoover, 5.6 at Eagle, 2.1 at Mica, 1.7 at Olympic, and 1.9 at Slab.

3. PERSONNEL

Eric Hards, geophysicist, was the party chief on the survey, on behalf of Scott Geophysics.

Mike Stammers, geologist, was the Westmin representative on site for the duration of the project.

4. INSTRUMENTATION

A Scintrex IPR12 receiver and IPC7 (2.5 kw) transmitter were used on the IP survey. Readings were taken in the time domain using a 2 second current pulse.

The chargeability plotted on the accompanying pseudosections and plan maps is for the interval 690 to 1050 milliseconds after shutoff (midpoint at 870 milliseconds). This corresponds to the M7 value for the IPR11.

Two Scintrex IGS-MP4 magnetometers were used for the mag survey, one as the field unit and the other as a fixed base station. All readings were were corrected for diurnal variation with reference to the base station.

5. RECOMMENDATIONS

A preliminary evaluation of the results of the IP survey performed on the Fairchild Lake Project indicates the presence of moderate to strong chargeability highs that merit further investigation.

Strong magnetic highs were detected on the Hoover, Eagle, and Slab Grids.

A detailed interpretation of these geophysical survey results, and correlation to geological and geochemical information, is required before any specific recommendations could be made.

Respectfully Submitted,



Alan Scott, P. Geos.

Statement of Qualifications

for

Alan Scott, Geophysicist

of

4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

I, Alan Scott, hereby certify the following statements regarding my qualifications, and my involvement in the program of work described in this report.

1. The work was performed by individuals sufficiently trained and qualified for its performance.

2. I have no material interest in the property under consideration in this report, nor in the company on whose behalf the work was performed.

3. I graduated from the University of British Columbia with a Bachelor of Science degree (Geophysics) in 1970, and with a Master of Business Administration degree in 1982.

4. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

5. I have been practicing my profession as a Geophysicist in the field of Mineral Exploration since 1970.

Respectfully submitted,



Alan Scott

FAIRCHILD LAKE GEOCHEMISTRY ----- NORMAL CORRELATION MATRIX ----- ALL DATA
ROCK SAMPLE DATA -- 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

OLYMPIC CLAIMS

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	1359																											
AG	0.106	1																										
#PRS	1359	1359																										
AL	-0.022	-0.115	1																									
#PRS	1359	1359	1359																									
BA	-0.032	-0.079	0.221	1																								
#PRS	1359	1359	1359	1359																								
BE	-0.005	-0.011	0.092	-0.041	1																							
#PRS	1359	1359	1359	1359	1359																							
BI	0.025	0.16	-0.132	-0.04	-0.01	1																						
#PRS	1359	1359	1359	1359	1359	1359																						
CA	-0.046	-0.077	-0.438	-0.097	0.009	-0.042	1																					
#PRS	1359	1359	1359	1359	1359	1359	1359																					
CD	0.043	0.02	-0.088	-0.027	-0.006	0.201	0.005	1																				
#PRS	1359	1359	1359	1359	1359	1359	1359	1359																				
CO	0.025	0.042	-0.138	-0.082	0.001	0.102	-0.043	0.126	1																			
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359																			
CR	0.011	-0.054	0.065	-0.025	0.016	-0.009	-0.181	-0.04	0.086	1																		
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359																		
CUG	0.213	0.265	-0.096	-0.172	0.031	0.111	-0.046	-0.008	0.078	-0.089	1																	
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359																	
CUA	0.041	0.234	-0.055	-0.03	-0.025	0.296	-0.034	-0.006	0.058	-0.027	0.001	1																
#PRS	144	144	144	144	144	144	144	144	144	144	144	144																
FE	0.063	0.114	-0.236	-0.043	-0.084	0.063	-0.175	0.018	0.188	-0.096	0.143	0.073	1															
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359															
K	-0.039	-0.101	0.401	0.507	-0.065	-0.072	-0.226	-0.042	-0.081	0.05	-0.181	-0.032	-0.047	1														
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359														
MG	-0.049	-0.065	-0.297	-0.101	-0.081	-0.042	0.342	-0.009	-0.026	-0.043	-0.043	-0.051	0.099	-0.112	1													
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359													
MN	-0.057	-0.082	-0.236	0.085	-0.073	-0.037	0.35	0.025	0.089	-0.121	-0.061	-0.033	0.154	0.025	0.219	1												
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359												
MO	0.037	0.094	-0.002	-0.03	-0.003	-0.007	-0.062	-0.006	0.056	-0.013	0.153	-0.028	0.064	-0.027	-0.046	-0.036	1											
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359											
NA	0.016	0.022	0.316	-0.235	0.143	-0.054	-0.027	-0.036	-0.065	-0.038	0.084	-0.058	-0.254	-0.508	-0.255	-0.185	-0.005	1										
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359										
NI	0.114	0.067	-0.092	-0.048	-0.01	0.374	-0.057	0.819	0.23	-0.036	0.031	0.041	0.108	-0.079	-0.018	0.006	0.002	-0.049	1									
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359									
P	0.017	-0.05	0.004	0.022	0.016	-0.041	0.013	-0.024	0.071	-0.085	-0.025	-0.008	0.126	0.033	-0.144	0.085	0.048	0.036	-0.018	1								
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359								
PB	0.004	0.123	-0.03	-0.041	0.017	0.013	0.07	0.069	0.007	-0.029	0.036	-0.011	-0.004	-0.048	-0.02	0.01	0.014	0.003	0.013	-0.002	1							
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359							
SR	0.003	-0.013	-0.086	0.099	0.024	-0.015	0.163	0.009	-0.034	-0.041	-0.019	-0.015	-0.044	-0.101	-0.028	0.037	0.041	-0.01	-0.004	0.017	0.044	1						
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359						
TI	-0.03	-0.037	0.212	-0.017	-0.025	-0.052	-0.055	-0.028	-0.044	0.383	-0.107	-0.042	0.027	0.023	0.127	-0.103	-0.062	0.054	-0.04	-0.019	-0.043	0.058	1					
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359					
V	-0.025	-0.017	0.03	-0.011	-0.043	-0.048	-0.084	-0.016	-0.024	0.066	0.001	-0.052	0.298	-0.064	0.183	-0.032	0.013	-0.054	-0.012	0.114	-0.039	0.001	0.427	1				
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359				
W	0.194	0.127	-0.132	-0.094	-0.027	0.073	-0.045	0.312	0.158	0.055	0.421	0.166	0.208	-0.025	0.016	0.004	0.092	-0.08	0.349	-0.058	0.01	-0.032	0.008	0.007	1			
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359			
ZN	0.029	0.087	-0.129	-0.08	-0.02	0.085	0.11	0.123	0.02	-0.051	0.091	0.211	0.123	-0.105	-0.04	0.026	0.008	-0.057	0.035	0.005	0.202	0.038	-0.018	0.009	0.094	1		
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359		
LA	0.017	-0.026	0.063	0.033	-0.015	-0.022	-0.185	-0.015	0.076	0.01	0.047	0	0.121	0.053	-0.101	-0.066	0.088	0.015	-0.01	0.21	-0.017	-0.008	-0.086	-0.005	0.041	-0.018	1	
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	
U	0.016	0.064	-0.049	-0.035	-0.009	0.006	0.121	0.009	0.005	-0.078	0.135	-0.011	-0.03	-0.022	0.079	0.009	0.183	-0.044	-0.004	-0.02	0.082	0.036	-0.064	-0.016	0.106	0.037	-0.046	1
#PRS	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	95	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO - LOGICK SYSTEM and LOTUS123

093128

FAIRCHILD LAKE GEOCHEMISTRY ---- LOG TRANSFORMED CORRELATION MATRIX ---- ALL DATA
ROCK SAMPLE DATA -- 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	1359																											
AG	0.491	1																										
#PRS	1359	1359																										
AL	-0.073	-0.215	1																									
#PRS	1359	1359	1359																									
BA	-0.101	-0.234	0.37	1																								
#PRS	1359	1359	1359	1359																								
BE	0.051	-0.044	0.161	0.028	1																							
#PRS	1359	1359	1359	1359	1359																							
BI	0.027	0.111	-0.061	0.022	-0.023	1																						
#PRS	1359	1359	1359	1359	1359	1359																						
CA	-0.11	-0.203	0.023	0.09	-0.064	0.04	1																					
#PRS	1359	1359	1359	1359	1359	1359	1359																					
CD	-0.026	0.104	-0.037	-0.06	-0.026	0.148	0.088	1																				
#PRS	1359	1359	1359	1359	1359	1359	1359	1359																				
CO	0.305	0.199	0.068	-0.017	0.038	0.114	0.119	0.118	1																			
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359																			
CR	-0.056	-0.04	0.261	0.202	0.106	0.017	0.149	0.143	0.556	1																		
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359																		
CUG	0.634	0.437	-0.068	-0.185	0.066	0	-0.109	-0.067	0.217	-0.164	1																	
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359																	
CUA	0.064	0.131	-0.096	-0.028	-0.044	0.154	-0.116	-0.021	0.015	-0.016	0	1																
#PRS	144	144	144	144	144	144	144	144	144	144	144	144																
FE	0.084	0.042	0.06	0.073	-0.17	-0.029	0.017	0.003	0.146	0.041	0.063	-0.016	1															
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359															
K	-0.065	-0.167	0.462	0.736	0.038	0.037	0.162	0.018	0.18	0.422	-0.186	-0.077	0.09	1														
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359														
MG	-0.061	-0.101	0.082	0.165	-0.136	0.001	0.318	0.081	0.359	0.416	-0.101	-0.081	0.22	0.377	1													
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359													
MN	-0.135	-0.175	0.05	0.186	-0.171	0.048	0.44	-0.028	-0.026	-0.017	-0.036	-0.015	0.257	0.136	0.173	1												
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359												
MO	0.493	0.321	-0.035	0.026	0.002	-0.015	-0.165	-0.136	0.2	-0.099	0.371	-0.009	0.135	0.016	-0.029	-0.067	1											
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359											
NA	-0.039	-0.113	0.408	-0.075	0.22	-0.056	0.231	0.006	0.202	0.366	-0.04	-0.068	-0.115	-0.056	-0.008	0.007	-0.171	1										
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359										
NI	0.295	0.237	0.061	-0.008	-0.015	0.08	-0.211	0.056	0.441	0.049	0.239	0.022	0.226	0.025	0.138	-0.127	0.219	-0.076	1									
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359									
P	-0.092	-0.228	0.366	0.285	0.057	0.096	0.181	-0.03	-0.011	0.072	-0.127	-0.023	0.027	0.213	-0.005	0.18	0.068	0.164	0.025	1								
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359								
PB	0.127	0.388	-0.146	-0.118	0.04	0.072	-0.06	0.268	0.107	0.013	0.168	0.049	-0.057	-0.1	-0.059	-0.093	0.102	-0.044	0.123	-0.143	1							
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359							
SR	0	-0.119	0.141	0.263	0.243	0.045	0.29	0.032	-0.01	-0.042	0.04	-0.015	-0.078	0.047	-0.062	0.15	-0.063	0.295	-0.014	0.158	0.141	1						
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359						
TI	-0.124	-0.151	0.319	0.289	0.078	0.007	0.276	0.164	0.523	0.835	-0.204	-0.047	0.125	0.459	0.475	0.102	-0.113	0.428	0.008	0.17	-0.032	0.103	1					
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359					
V	-0.064	-0.21	0.361	0.239	-0.069	-0.153	0.126	0.026	0.069	0.072	0.001	-0.049	0.326	0.255	0.296	0.154	0.066	0.07	0.217	0.283	-0.136	0.098	0.279	1				
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359				
W	0.344	0.34	0.006	0.008	-0.204	0.037	0.122	0.196	0.45	0.265	0.209	0.083	0.208	0.163	0.27	0.046	0.187	-0.004	0.199	-0.115	0.076	-0.107	0.253	0.071	1			
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359			
ZN	0.196	0.287	-0.115	-0.094	-0.053	0.001	0.04	0.248	0.345	0.207	0.233	0.054	0.197	-0.019	0.283	0.038	0.134	-0.02	0.322	-0.129	0.322	0.081	0.239	0.073	0.302	1		
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359		
LA	0.135	-0.026	0.214	0.3	0.049	-0.004	-0.29	-0.08	0.104	0.153	-0.018	-0.009	0.071	0.277	0.006	-0.108	0.24	-0.069	0.098	0.208	-0.067	-0.188	0.091	0.094	0.117	-0.027	1	
#PRS	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	144	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	
U	0.119	0.185	-0.128	-0.069	-0.065	0.033	0.124	0.024	0.078	-0.104	0.117	0.012	-0.04	-0.093	0.055	0.007	0.092	-0.074	-0.002	-0.058	0.233	0.034	-0.064	-0.031	0.149	0.107	-0.263	1
#PRS	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	95	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO -- LOGICK SYSTEM and LOTUS123

FAIRCHILD LAKE GEOCHEMISTRY ----- NORMAL CORRELATION MATRIX ROCK TYPE ---> OLYM
ROCK SAMPLE DATA -- 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	197																											
AG	0.399	1																										
#PRS	197	197																										
AL	-0.237	-0.413	1																									
#PRS	197	197	197																									
BA	-0.081	-0.141	0.196	1																								
#PRS	197	197	197	197																								
BE	-0.039	-0.053	0.121	-0.146	1																							
#PRS	197	197	197	197	197																							
BI	0.048	0.263	-0.223	-0.022	-0.022	1																						
#PRS	197	197	197	197	197	197																						
CA	-0.154	-0.076	-0.39	-0.056	-0.022	-0.021	1																					
#PRS	197	197	197	197	197	197	197																					
CD	-0.018	0.068	-0.228	-0.06	-0.028	-0.014	0.228	1																				
#PRS	197	197	197	197	197	197	197	197																				
CO	0.085	0.167	-0.003	-0.059	0.076	-0.02	-0.087	-0.013	1																			
#PRS	197	197	197	197	197	197	197	197	197																			
CR	-0.101	-0.037	0.066	-0.062	0.125	-0.093	0.011	-0.025	0.039	1																		
#PRS	197	197	197	197	197	197	197	197	197	197																		
CUG	0.402	0.333	-0.045	-0.189	0.119	0.21	-0.199	-0.033	0.239	-0.14	1																	
#PRS	197	197	197	197	197	197	197	197	197	197	197																	
CUA	0.278	0.279	-0.081	-0.057	-0.047	0.875	-0.016	-0.008	0.089	-0.021	0.048	1																
#PRS	16	16	16	16	16	16	16	16	16	16	16	16																
FE	0.302	0.399	-0.11	0.019	-0.273	0.411	-0.229	-0.047	0.065	-0.113	0.236	0.224	1															
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197															
K	-0.13	-0.155	0.463	0.516	-0.085	-0.092	-0.123	-0.103	-0.022	0.033	-0.221	-0.052	-0.075	1														
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197														
MG	-0.158	-0.132	-0.338	-0.239	0.003	-0.097	0.511	0.182	-0.074	-0.049	-0.115	-0.091	-0.118	-0.329	1													
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197													
MN	-0.175	-0.246	0.12	0.232	-0.043	-0.069	0.348	-0.094	-0.053	-0.032	-0.14	-0.045	-0.051	0.132	0.173	1												
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197												
MO	0.161	0.421	0.005	-0.046	-0.054	-0.019	-0.162	-0.029	0.027	-0.051	0.255	-0.062	0.069	0.072	-0.073	-0.134	1											
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197											
NA	0.042	-0.083	0.25	-0.255	-0.015	-0.058	-0.121	-0.046	-0.046	-0.086	0.162	-0.024	0.011	-0.466	-0.082	0.008	-0.042	1										
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197										
NI	0.373	0.29	-0.017	-0.173	0.006	-0.055	-0.251	-0.038	0.609	0.236	0.384	0.03	0.31	-0.327	-0.025	-0.199	0.045	0.08	1									
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197									
P	0.042	-0.091	0.299	0.011	0.068	0.015	-0.192	-0.084	-0.017	-0.101	0.252	-0.008	0.015	0.027	-0.203	-0.099	0.245	0.303	0.022	1								
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197								
PB	0.026	0.633	-0.401	-0.098	-0.055	0.006	0.055	0.226	-0.027	-0.022	0.042	-0.071	0.206	-0.14	0.029	-0.237	0.047	-0.111	0.084	-0.173	1							
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197							
SR	-0.025	-0.114	0.1	0.488	-0.123	-0.011	0.099	-0.048	-0.053	0.074	-0.066	-0.009	0.082	0.086	-0.136	0.285	-0.025	0.07	-0.008	-0.007	-0.098	1						
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197						
TI	-0.138	-0.212	0.366	-0.055	0.025	-0.075	-0.11	-0.07	-0.038	0.336	-0.19	-0.008	-0.068	0.309	-0.088	-0.041	-0.094	0.093	-0.093	0.028	-0.189	-0.126	1					
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197					
V	-0.127	-0.207	0.312	0.09	-0.109	-0.07	-0.18	-0.078	-0.026	-0.121	-0.044	-0.061	0.186	0.068	-0.016	0.033	0.005	0.145	0.021	0.064	-0.183	0.057	0.249	1				
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197				
W	0.382	0.317	-0.156	-0.08	-0.059	-0.039	-0.093	0.064	0.132	0.004	0.369	0.073	0.282	0.027	-0.121	-0.119	0.339	-0.038	0.105	0.03	0.032	-0.037	-0.017	-0.131	1			
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197	197			
ZN	0.161	0.708	-0.336	-0.131	-0.049	0.388	-0.105	0.024	0.051	0.005	0.188	0.373	0.531	-0.273	-0.096	-0.158	-0.004	0.025	0.297	-0.05	0.557	-0.036	-0.149	-0.061	0.102	1		
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197	197	197		
LA	0.034	-0.089	0.283	0.158	-0.075	-0.059	-0.286	-0.074	-0.047	0	0.036	-0.049	0.037	0.201	-0.237	-0.092	0.237	0.061	-0.021	0.517	-0.1	0.075	0.021	-0.078	0.065	-0.101	1	
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	
U	0.024	0.186	-0.289	-0.159	-0.121	-0.013	0.589	0.347	-0.038	-0.16	0.032	0	0.006	-0.234	0.386	-0.064	0.035	-0.069	-0.047	-0.151	0.287	-0.018	-0.266	-0.105	0.209	0.052	-0.24	1
#PRS	152	152	152	152	152	152	152	152	152	152	152	7	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO-LOGICK SYSTEM and LOTUS123

FAIRCHILD LAKE GEOCHEMISTRY ----- LOG TRANSFORMED CORRELATION MATRIX ROCK TYPE ---> OLYM
ROCK SAMPLE DATA - 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	197																											
AG	0.401	1																										
#PRS	197	197																										
AL	-0.119	-0.418	1																									
#PRS	197	197	197																									
BA	-0.063	-0.404	0.537	1																								
#PRS	197	197	197	197																								
BE	-0.068	-0.028	0.094	-0.088	1																							
#PRS	197	197	197	197	197																							
BI	0.143	0.067	-0.034	0.13	0.01	1																						
#PRS	197	197	197	197	197	197																						
CA	-0.163	-0.152	0.151	0.308	0.018	-0.003	1																					
#PRS	197	197	197	197	197	197	197																					
CD	-0.08	0.276	-0.19	-0.178	-0.088	-0.065	0.089	1																				
#PRS	197	197	197	197	197	197	197	197																				
CO	0.166	0.125	0.228	0.083	0.157	-0.075	0.082	0.01	1																			
#PRS	197	197	197	197	197	197	197	197	197																			
CR	-0.137	-0.098	0.298	0.216	0.19	-0.127	0.225	0.182	0.601	1																		
#PRS	197	197	197	197	197	197	197	197	197	197																		
CUG	0.461	0.353	-0.026	-0.153	0.034	0.137	-0.237	-0.081	0.228	-0.166	1																	
#PRS	197	197	197	197	197	197	197	197	197	197	197																	
CUA	0.178	0.145	-0.226	-0.041	-0.025	0.134	-0.03	-0.032	0.018	-0.029	0.008	1																
#PRS	16	16	16	16	16	16	16	16	16	16	16	16																
FE	0.135	0.038	0.32	0.202	-0.163	0.094	0.074	-0.236	0.278	-0.111	0.115	0.117	1															
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197															
K	-0.124	-0.261	0.508	0.72	0.091	0.127	0.423	-0.024	0.33	0.478	-0.177	-0.16	0.147	1														
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197														
MG	-0.364	-0.344	0.298	0.015	0.078	-0.161	0.405	0.076	0.145	0.239	-0.243	-0.369	0.087	0.175	1													
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197													
MN	-0.2	-0.388	0.266	0.443	-0.095	0.04	0.614	-0.206	0.127	0.015	-0.088	-0.008	0.327	0.38	0.329	1												
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197												
MO	0.329	0.062	0.242	0.189	-0.048	0.056	-0.114	-0.166	0.252	0.141	0.19	-0.045	0.102	0.208	-0.092	-0.05	1											
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197											
NA	-0.16	-0.166	0.374	-0.073	0.126	-0.204	0.269	-0.039	0.209	0.301	-0.04	-0.03	0.135	-0.026	0.237	0.245	-0.133	1										
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197										
NI	0.124	0.174	0.124	-0.247	0.013	-0.107	-0.419	-0.065	0.281	-0.011	0.286	0.012	0.21	-0.28	-0.069	-0.206	0.091	0.055	1									
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197									
P	-0.055	-0.385	0.576	0.433	0.051	0.168	0.193	-0.337	0.041	0.004	-0.024	-0.021	0.347	0.271	0.066	0.306	0.216	0.235	-0.084	1								
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197								
PB	-0.043	0.551	-0.382	-0.302	0.015	-0.085	-0.01	0.392	-0.084	0.028	-0.075	-0.04	-0.161	-0.138	-0.077	-0.339	-0.208	-0.249	-0.065	-0.478	1							
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197							
SR	0.12	-0.213	0.2	0.486	-0.171	0.088	0.396	-0.215	-0.051	-0.152	0.01	0.005	0.299	0.132	-0.039	0.516	0.008	0.13	-0.054	0.262	-0.206	1						
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197						
TI	-0.147	-0.28	0.371	0.351	0.151	-0.02	0.363	0.007	0.59	0.782	-0.184	-0.008	0.133	0.588	0.31	0.255	0.162	0.415	-0.171	0.286	-0.195	-0.008	1					
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197					
V	-0.143	-0.528	0.598	0.407	-0.043	0.007	0.141	-0.287	0.079	-0.034	-0.014	-0.05	0.416	0.322	0.348	0.396	0.105	0.25	0.061	0.557	-0.507	0.301	0.275	1				
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197				
W	0.333	0.206	0.004	0.085	-0.09	0.067	0.226	0.226	0.463	0.371	0.079	0.048	0.133	0.243	0.013	0.103	0.22	0.122	-0.04	-0.141	0.045	0.047	0.344	-0.112	1			
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197	197			
ZN	0.273	0.496	-0.253	-0.459	-0.1	0.006	-0.267	0.028	0.021	-0.28	0.467	0.061	0.132	-0.487	-0.204	-0.235	-0.051	0.09	0.541	-0.28	0.211	-0.04	-0.357	-0.186	0.022	1		
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197	197	197		
LA	0.114	-0.234	0.394	0.431	-0.006	0.056	-0.122	-0.195	0.054	0.143	-0.045	-0.036	0.157	0.288	-0.168	0.036	0.353	0.043	0.02	0.351	-0.266	0.119	0.182	0.168	0.126	-0.205	1	
#PRS	197	197	197	197	197	197	197	197	197	197	197	16	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	
U	0.068	0.277	-0.261	-0.134	-0.109	-0.08	0.126	0.196	-0.081	-0.104	0.022	0.001	-0.104	-0.166	0.108	-0.021	-0.076	-0.16	-0.041	-0.123	0.359	-0.024	-0.163	-0.109	0.203	0.097	-0.314	1
#PRS	152	152	152	152	152	152	152	152	152	152	152	7	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152	152
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO - LOGICK SYSTEM and LOTUS123

FAIRCHILD LAKES SOIL GEOCHEMISTRY ---- NORMAL CORRELATION MATRIX ---- ALL DATA
SOIL SAMPLE DATA -- 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	1248																											
AG	0	1																										
#PRS	1248	1249																										
AL	-0.077	-0.058	1																									
#PRS	1248	1249	1249																									
BA	0.128	0.035	0.061	1																								
#PRS	1248	1249	1249	1249																								
BE	-0.045	0.007	0.324	-0.082	1																							
#PRS	1248	1249	1249	1249	1249																							
BI	-0.016	-0.015	0.058	-0.011	-0.038	1																						
#PRS	1248	1249	1249	1249	1249	1249																						
CA	0.018	0.081	-0.106	-0.011	0.055	-0.048	1																					
#PRS	1248	1249	1249	1249	1249	1249	1249																					
CD	0.005	0.245	-0.161	0.02	-0.029	-0.024	0.229	1																				
#PRS	1248	1249	1249	1249	1249	1249	1249	1249																				
CO	0.37	0.044	-0.007	0.15	0.009	0.181	0.018	-0.001	1																			
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249																			
CR	-0.049	-0.15	0.541	-0.093	0.084	0.04	-0.075	-0.171	0.049	1																		
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249																		
CUG	0.621	0.014	-0.05	0.108	-0.067	0.066	0.031	-0.012	0.235	0.023	1																	
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249																	
CUA	0.31	0	0.003	0.013	-0.009	0	0.003	0	-0.008	0.001	0	1																
#PRS	2	2	2	2	2	2	2	2	2	2	2	2																
FE	0.196	0.204	0.223	0.489	-0.032	0.099	0	0.056	0.451	0.142	0.179	-0.003	1															
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249															
K	0.034	-0.017	0.556	0.457	0.196	-0.043	-0.037	-0.079	-0.034	0.27	0.076	0.006	0.243	1														
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249														
MG	0.003	0.302	-0.159	-0.055	-0.024	-0.041	0.31	0.265	0.043	0.012	0.036	0.003	0.155	0.035	1													
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249													
MN	0.19	0.201	-0.115	0.445	-0.037	0.077	0.103	0.13	0.363	-0.151	0.206	0.002	0.585	0.036	0.107	1												
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249												
MO	0.31	0.032	-0.046	0.42	-0.083	0.02	-0.005	-0.015	0.381	-0.069	0.347	-0.044	0.58	0.108	-0.036	0.435	1											
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249											
NA	-0.037	-0.03	0.422	-0.038	0.231	0.032	-0.046	-0.126	0.039	0.117	-0.007	0.002	0.029	0.147	-0.071	-0.024	-0.099	1										
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249										
NI	0.117	0.071	0.147	0.056	0.012	0.146	0.015	0.017	0.502	0.332	0.148	-0.011	0.389	0.045	0.116	0.252	0.237	0.034	1									
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249									
P	0.203	0.034	-0.156	0.203	-0.085	0.024	0.045	0.027	0.525	-0.051	0.204	0	0.322	-0.099	-0.031	0.357	0.365	0.004	0.284	1								
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249								
PB	0	0.375	0.001	-0.032	0.064	-0.035	0.055	0.249	0.044	-0.049	0.01	-0.019	0.109	-0.134	0.081	0.131	0.027	-0.12	0.029	0.017	1							
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249							
SR	0.038	-0.006	0.419	0.175	0.063	0.032	0.036	0.026	-0.006	0.229	0.073	0.008	0.12	0.154	-0.088	0.043	0.007	0.182	0.082	0.013	0.052	1						
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249						
TI	-0.087	-0.141	0.386	-0.077	0.055	0.027	-0.107	-0.138	-0.087	0.584	-0.074	-0.002	0.089	0.186	-0.013	-0.275	-0.212	0.231	0.11	-0.209	-0.038	0.259	1					
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249					
V	-0.019	-0.134	0.269	0.028	-0.049	0.006	-0.104	-0.058	-0.015	0.48	0.004	-0.002	0.268	0.092	0.09	-0.138	-0.066	0.084	0.112	-0.115	0.027	0.148	0.718	1				
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249				
W	0.065	-0.047	-0.026	-0.04	0.003	-0.039	0.002	-0.041	0.002	0.22	0.092	0.018	0.056	0.036	0.108	-0.047	-0.073	-0.042	0.045	-0.048	-0.011	-0.103	0.17	0.284	1			
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249			
ZN	-0.043	0.098	-0.001	-0.128	0.04	0.011	0.007	0.238	0.012	0.042	-0.048	-0.008	-0.007	-0.142	-0.061	0.015	-0.041	-0.161	0.246	0.022	0.332	0.061	-0.028	0.017	-0.025	1		
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249		
LA	0.013	0.027	0.47	0.051	0.204	0.088	-0.032	0.013	0.112	0.265	0.066	0.01	0.183	0.173	-0.126	0.049	0.087	0.166	0.335	0.1	0.089	0.226	0.117	0.061	-0.052	0.247	1	
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	
U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#PRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO-LOGICK SYSTEM and LOTUS123

FAIRCHILD LAKES SOIL GEOCHEMISTRY ---- LOG TRANSFORMED CORRELATION MATRIX ---- ALL DATA
SOIL SAMPLE DATA – 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	1248																											
AG	0.058	1																										
#PRS	1248	1249																										
AL	−0.133	−0.107	1																									
#PRS	1248	1249	1249																									
BA	0.279	0.087	0.286	1																								
#PRS	1248	1249	1249	1249																								
BE	−0.134	0.013	0.274	−0.061	1																							
#PRS	1248	1249	1249	1249	1249																							
BI	−0.018	0.018	0.159	0.106	0.013	1																						
#PRS	1248	1249	1249	1249	1249	1249																						
CA	0.157	0.103	−0.578	−0.144	−0.093	−0.198	1																					
#PRS	1248	1249	1249	1249	1249	1249	1249																					
CD	0.002	0.215	−0.217	0.009	−0.033	0.007	0.279	1																				
#PRS	1248	1249	1249	1249	1249	1249	1249	1249																				
CO	0.428	0.134	0.176	0.289	−0.037	0.154	−0.011	−0.017	1																			
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249																			
CR	−0.075	−0.254	0.666	0.04	0.124	0.096	−0.378	−0.258	0.161	1																		
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249																		
CUG	0.617	0.124	−0.086	0.237	−0.094	0.073	0.275	−0.011	0.63	0.03	1																	
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249																	
CUA	0.027	0	0.002	0.002	−0.032	0	0.013	0	−0.001	0	0	1																
#PRS	2	2	2	2	2	2	2	2	2	2	2	2																
FE	0.31	0.213	0.391	0.464	−0.083	0.124	−0.233	−0.008	0.601	0.207	0.315	−0.002	1															
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249															
K	0.047	−0.019	0.637	0.594	0.178	0.028	−0.228	−0.106	0.083	0.377	0.075	0.007	0.329	1														
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249														
MG	0.037	0.153	−0.006	−0.058	0.013	−0.167	0.519	0.198	−0.013	0.04	0.112	0.009	0.163	0.179	1													
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249													
MN	0.35	0.256	−0.048	0.338	−0.056	0.072	0.193	0.081	0.588	−0.119	0.465	0.001	0.548	0.012	0.072	1												
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249												
MO	0.427	0.104	−0.009	0.242	−0.096	−0.025	−0.058	−0.081	0.473	−0.016	0.438	−0.022	0.414	0.046	−0.106	0.389	1											
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249											
NA	−0.148	−0.104	0.637	0.028	0.254	0.158	−0.357	−0.214	0.087	0.38	−0.096	0.004	0.115	0.226	−0.029	−0.072	−0.119	1										
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249										
NI	0.234	0.105	0.289	0.173	−0.003	0.126	0.025	0.014	0.731	0.369	0.486	−0.003	0.549	0.188	0.246	0.415	0.295	0.133	1									
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249									
P	0.277	0.105	−0.167	0.177	−0.102	−0.002	0.276	0.063	0.468	−0.134	0.477	0	0.187	−0.129	−0.022	0.489	0.405	−0.074	0.303	1								
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249								
PB	0.027	0.234	−0.124	−0.147	−0.051	−0.014	0.019	0.201	0.022	−0.011	−0.043	−0.015	0.07	−0.23	−0.008	0.03	0.052	−0.366	0.016	−0.061	1							
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249							
SR	−0.066	−0.085	0.455	0.336	0.046	0.198	−0.149	−0.004	0.097	0.348	0.023	0.002	0.159	0.216	−0.065	0.034	−0.062	0.363	0.166	0.021	0.022	1						
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249						
TI	−0.181	−0.231	0.579	0.093	0.108	0.139	−0.431	−0.189	−0.021	0.615	−0.183	−0.001	0.186	0.334	0.04	−0.283	−0.211	0.509	0.109	−0.322	0.028	0.391	1					
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249					
V	−0.017	−0.178	0.439	0.202	−0.033	0.096	−0.289	−0.066	0.081	0.483	−0.074	−0.001	0.374	0.245	0.133	−0.157	−0.083	0.262	0.162	−0.19	0.195	0.273	0.739	1				
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249				
W	0.06	−0.069	−0.006	−0.029	0.045	−0.06	0.058	−0.049	−0.008	0.124	0.041	0.008	0.046	0.055	0.09	−0.04	−0.145	−0.039	−0.004	−0.097	0.001	−0.115	0.132	0.204	1			
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249			
ZN	−0.109	0.102	−0.036	−0.243	0.046	0.06	0.055	0.236	0.07	0.108	−0.018	−0.008	0.001	−0.204	−0.024	0.027	−0.011	−0.211	0.228	0.069	0.657	0.139	0.035	0.116	0.019	1		
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249		
LA	0.029	−0.024	0.616	0.241	0.164	0.227	−0.536	−0.135	0.406	0.424	0.168	0.002	0.345	0.316	−0.277	0.125	0.171	0.441	0.442	0.112	−0.068	0.319	0.361	0.221	−0.045	0.133	1	
#PRS	1248	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	2	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	1249	
U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#PRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO-LOGICK SYSTEM and LOTUS123

FAIRCHILD LAKES SOIL GEOCHEMISTRY ---- NORMAL CORRELATION MATRIX ROCK TYPE ---> OLYM
SOIL SAMPLE DATA -- 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	40																											
AG	-0.156	1																										
#PRS	40	40																										
AL	0.117	-0.637	1																									
#PRS	40	40	40																									
BA	-0.072	-0.543	0.737	1																								
#PRS	40	40	40	40																								
BE	-0.07	0.6	-0.241	-0.231	1																							
#PRS	40	40	40	40	40																							
BI	0.089	-0.225	0.299	0.166	-0.076	1																						
#PRS	40	40	40	40	40	40																						
CA	-0.166	0.655	-0.929	-0.683	0.241	-0.265	1																					
#PRS	40	40	40	40	40	40	40																					
CD	-0.023	0.593	-0.692	-0.52	0.279	-0.28	0.797	1																				
#PRS	40	40	40	40	40	40	40	40																				
CO	0.007	-0.295	0.278	0.352	-0.095	0.168	-0.295	-0.138	1																			
#PRS	40	40	40	40	40	40	40	40	40																			
CR	0.139	-0.638	0.969	0.643	-0.221	0.307	-0.939	-0.721	0.217	1																		
#PRS	40	40	40	40	40	40	40	40	40	40																		
CUG	0.544	-0.076	-0.04	-0.073	-0.045	0.064	-0.063	-0.018	0.124	-0.027	1																	
#PRS	40	40	40	40	40	40	40	40	40	40	40																	
CUA	0	0	0	0	0	0	0	0	0	0	0	0																
#PRS	0	0	0	0	0	0	0	0	0	0	0	0																
FE	0.098	-0.066	0.131	0.279	0.016	0.077	-0.216	0.007	0.542	0.065	0.315	0	1															
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40															
K	0.075	-0.499	0.858	0.705	-0.13	0.306	-0.785	-0.578	0.488	0.762	0.069	0	0.341	1														
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40														
MG	-0.187	0.698	-0.915	-0.677	0.265	-0.272	0.996	0.808	-0.314	-0.927	-0.102	0	-0.226	-0.781	1													
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40													
MN	0.147	-0.153	-0.006	0.135	-0.228	0.133	0.013	0.121	0.45	-0.101	0.291	0	0.75	0.173	-0.009	1												
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40												
MO	0.446	-0.494	0.415	0.39	-0.227	0.238	-0.516	-0.387	0.426	0.374	0.698	0	0.53	0.553	-0.56	0.39	1											
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40											
NA	0.279	-0.348	0.567	0.275	-0.112	0.192	-0.542	-0.372	-0.344	0.656	-0.091	0	-0.331	0.151	-0.518	-0.38	-0.016	1										
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40										
NI	-0.053	0.11	0.007	-0.096	0.268	0.109	-0.008	0.043	0.667	-0.006	0.101	0	0.477	0.325	-0.01	0.275	0.231	-0.308	1									
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40									
P	0.07	-0.658	0.601	0.481	-0.279	0.189	-0.749	-0.622	0.126	0.667	0.088	0	0.335	0.426	-0.772	0.13	0.511	0.413	-0.088	1								
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40								
PB	-0.154	0.6	-0.579	-0.504	0.287	-0.245	0.509	0.409	0.021	-0.513	-0.031	0	0.063	-0.472	0.529	-0.071	-0.365	-0.398	0.429	-0.409	1							
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40							
SR	0.592	-0.299	0.301	0.307	-0.124	0.215	-0.341	-0.238	0.138	0.292	0.856	0	0.263	0.318	-0.375	0.248	0.741	0.216	-0.107	0.277	-0.356	1						
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40						
TI	0.186	-0.523	0.729	0.449	-0.232	0.228	-0.743	-0.57	-0.153	0.822	-0.066	0	-0.22	0.324	-0.724	-0.338	0.131	0.902	-0.401	0.618	-0.447	0.247	1					
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40					
V	0.144	-0.575	0.553	0.309	-0.219	0.224	-0.571	-0.349	0.106	0.655	0.108	0	0.236	0.349	-0.58	0.041	0.378	0.493	0.116	0.723	-0.188	0.235	0.65	1				
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40				
W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40	40			
ZN	-0.088	0.559	-0.177	-0.138	0.422	-0.109	0.192	0.193	-0.361	-0.161	-0.137	0	-0.22	-0.146	0.243	-0.389	-0.432	0.137	-0.054	-0.319	0.483	-0.159	-0.02	-0.217	0	1		
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
LA	0.156	-0.586	0.869	0.698	-0.22	0.367	-0.851	-0.689	0.298	0.808	-0.016	0	0.2	0.734	-0.84	0.107	0.431	0.462	-0.11	0.534	-0.657	0.308	0.618	0.318	0	-0.319	1	
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#PRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO-LOGICK SYSTEM and LOTUS 123

FAIRCHILD LAKES SOIL GEOCHEMISTRY ---- LOG TRANSFORMED CORRELATION MATRIX ROCK TYPE ---> OLYM
SOIL SAMPLE DATA -- 1/2 DETECTION LIMIT USED ON SAMPLES BELOW DETECTION LIMIT

	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U
AU	1																											
#PRS	40																											
AG	-0.487	1																										
#PRS	40	40																										
AL	0.337	-0.734	1																									
#PRS	40	40	40																									
BA	0.403	-0.744	0.835	1																								
#PRS	40	40	40	40																								
BE	-0.252	0.395	-0.226	-0.361	1																							
#PRS	40	40	40	40	40																							
BI	0.11	-0.376	0.368	0.257	-0.097	1																						
#PRS	40	40	40	40	40	40																						
CA	-0.271	0.733	-0.855	-0.763	0.227	-0.345	1																					
#PRS	40	40	40	40	40	40	40																					
CD	-0.156	0.649	-0.708	-0.652	0.274	-0.362	0.806	1																				
#PRS	40	40	40	40	40	40	40	40																				
CO	0.366	-0.313	0.529	0.493	-0.034	0.135	-0.271	-0.342	1																			
#PRS	40	40	40	40	40	40	40	40	40																			
CR	0.31	-0.71	0.978	0.752	-0.189	0.378	-0.837	-0.711	0.519	1																		
#PRS	40	40	40	40	40	40	40	40	40	40																		
CUG	0.658	-0.346	0.329	0.368	-0.068	0.087	-0.162	-0.225	0.705	0.322	1																	
#PRS	40	40	40	40	40	40	40	40	40	40	40																	
CUA	0	0	0	0	0	0	0	0	0	0	0	0																
#PRS	0	0	0	0	0	0	0	0	0	0	0	0																
FE	0.412	-0.13	0.22	0.403	0.031	0.025	-0.086	-0.08	0.691	0.161	0.706	0	1															
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40															
K	0.342	-0.568	0.903	0.72	-0.085	0.279	-0.633	-0.598	0.658	0.879	0.49	0	0.321	1														
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40														
MG	-0.362	0.8	-0.866	-0.795	0.248	-0.331	0.977	0.83	-0.326	-0.847	-0.264	0	-0.156	-0.673	1													
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40													
MN	0.477	-0.101	0.001	0.203	-0.271	0.035	0.158	0.077	0.386	-0.082	0.52	0	0.673	0.094	0.084	1												
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40												
MO	0.668	-0.712	0.696	0.705	-0.371	0.247	-0.579	-0.578	0.683	0.688	0.775	0	0.511	0.692	-0.66	0.352	1											
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40											
NA	0.166	-0.544	0.611	0.505	-0.108	0.345	-0.715	-0.455	-0.139	0.614	-0.149	0	-0.192	0.305	-0.687	-0.326	0.204	1										
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40										
NI	0.119	0.125	0.174	0.025	0.214	0.056	0.144	0.03	0.786	0.203	0.551	0	0.544	0.447	0.137	0.358	0.334	-0.46	1									
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40									
P	0.407	-0.728	0.69	0.715	-0.289	0.261	-0.685	-0.645	0.515	0.705	0.464	0	0.459	0.534	-0.744	0.179	0.791	0.464	0.087	1								
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40								
PB	-0.37	0.636	-0.476	-0.509	0.201	-0.089	0.495	0.504	-0.069	-0.399	-0.145	0	-0.042	-0.405	0.583	-0.159	-0.408	-0.331	0.292	-0.332	1							
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40							
SR	0.612	-0.639	0.61	0.68	-0.198	0.351	-0.543	-0.465	0.305	0.561	0.503	0	0.262	0.53	-0.62	0.182	0.606	0.529	-0.109	0.508	-0.566	1						
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40						
TI	0.244	-0.732	0.833	0.716	-0.312	0.409	-0.895	-0.679	0.181	0.843	0.07	0	-0.021	0.548	-0.875	-0.227	0.511	0.872	-0.237	0.705	-0.373	0.59	1					
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40					
V	0.371	-0.622	0.618	0.562	-0.222	0.358	-0.544	-0.383	0.403	0.657	0.363	0	0.348	0.431	-0.549	0.113	0.682	0.499	0.147	0.824	-0.089	0.416	0.689	1				
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40				
W	0.001	-0.001	0.002	0.004	-0.002	0	0	-0.001	0.001	0.008	0.004	0	0.004	0.001	0	0.007	0.001	-0.002	0.005	0.006	0.001	0.005	-0.003	0.011	1			
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40	40			
ZN	-0.392	0.45	-0.143	-0.2	0.367	-0.044	0.123	0.194	-0.224	-0.116	-0.35	0	-0.182	-0.144	0.194	-0.471	-0.484	0.214	-0.085	-0.258	0.57	-0.218	0.007	-0.178	0.005	1		
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
LA	0.43	-0.759	0.851	0.781	-0.242	0.432	-0.901	-0.749	0.38	0.795	0.318	0	0.249	0.704	-0.922	0.091	0.649	0.594	-0.041	0.624	-0.583	0.645	0.779	0.485	0.001	-0.253	1	
#PRS	40	40	40	40	40	40	40	40	40	40	40	0	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#PRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AU	AG	AL	BA	BE	BI	CA	CD	CO	CR	CUG	CUA	FE	K	MG	MN	MO	NA	NI	P	PB	SR	TI	V	W	ZN	LA	U

Produced by GEO-LOGICK SYSTEM and LOTUS123

WESTMIN RESOURCES LIMITED

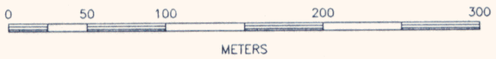
FAIRCHILD PROJECT, OLYMPIC GRID

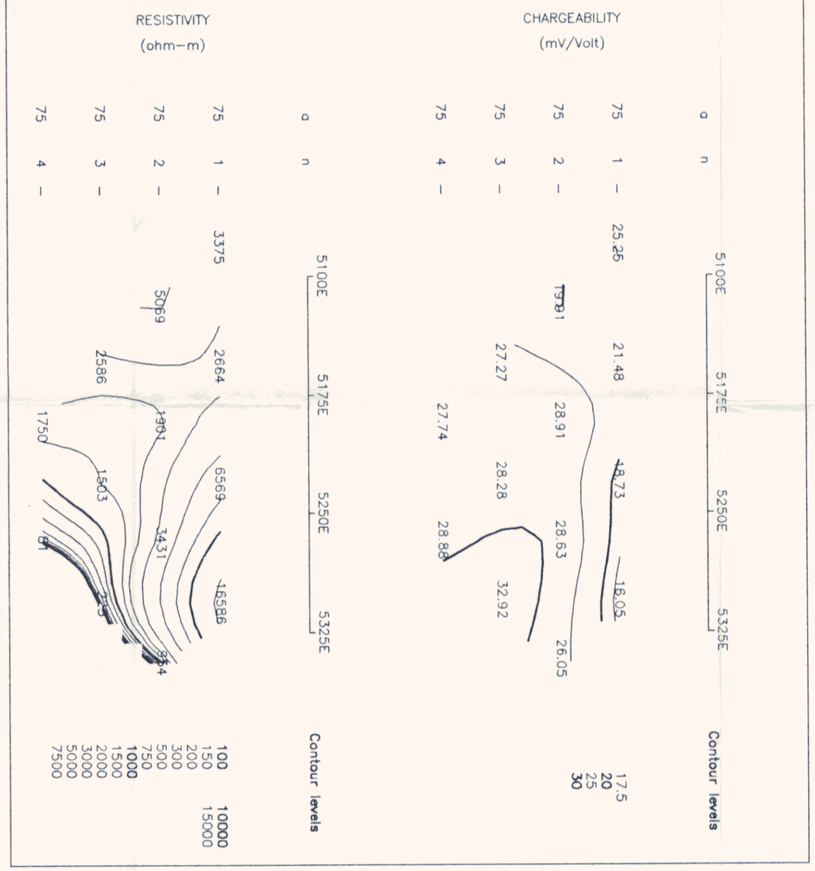
LINE: 5200N

INDUCED POLARIZATION SURVEY (Pole–Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
June/93 Pulse Rate: 2 sec

current electrode west of receiving electrodes
Mx Chargeability is for interval 690 to 1050 msecs after shutoff

0931-2 Dwg 513





WESTMIN RESOURCES LIMITED

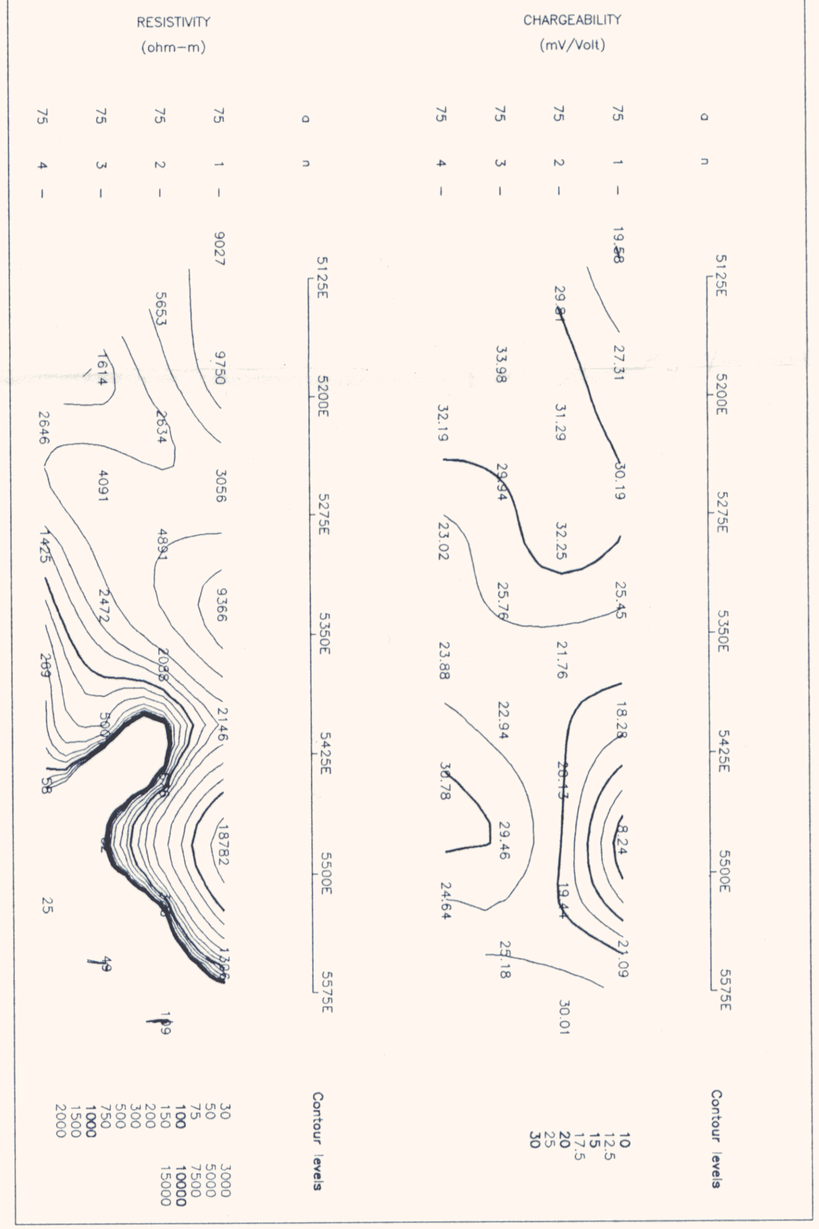
FAIRCHILD PROJECT, OLYMPIC GRID

LINE: 5375N

INDUCED POLARIZATION SURVEY (Pole–Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
June/93 Pulse Rate: 2 sec

current electrode west of receiving electrodes
Mx Chargeability is for interval 690 to 1050 msecs after shutoff





WESTMIN RESOURCES LIMITED

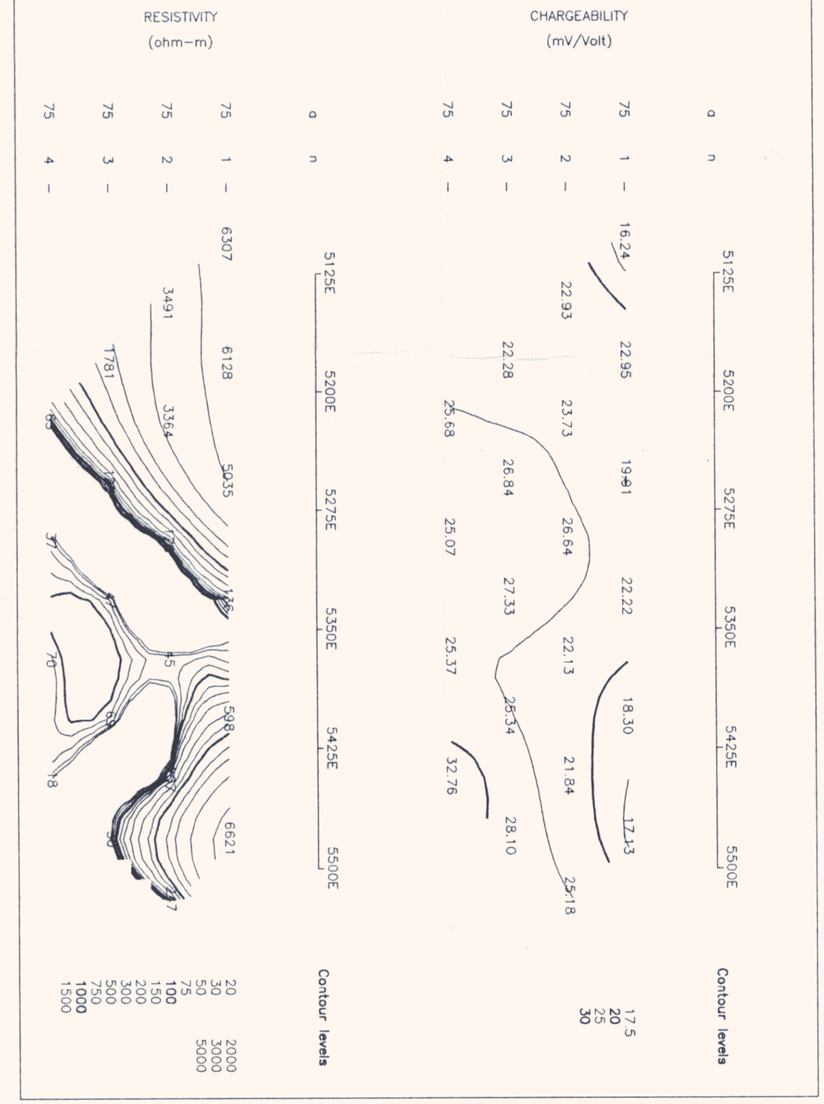
FAIRCHILD PROJECT, OLYMPIC GRID

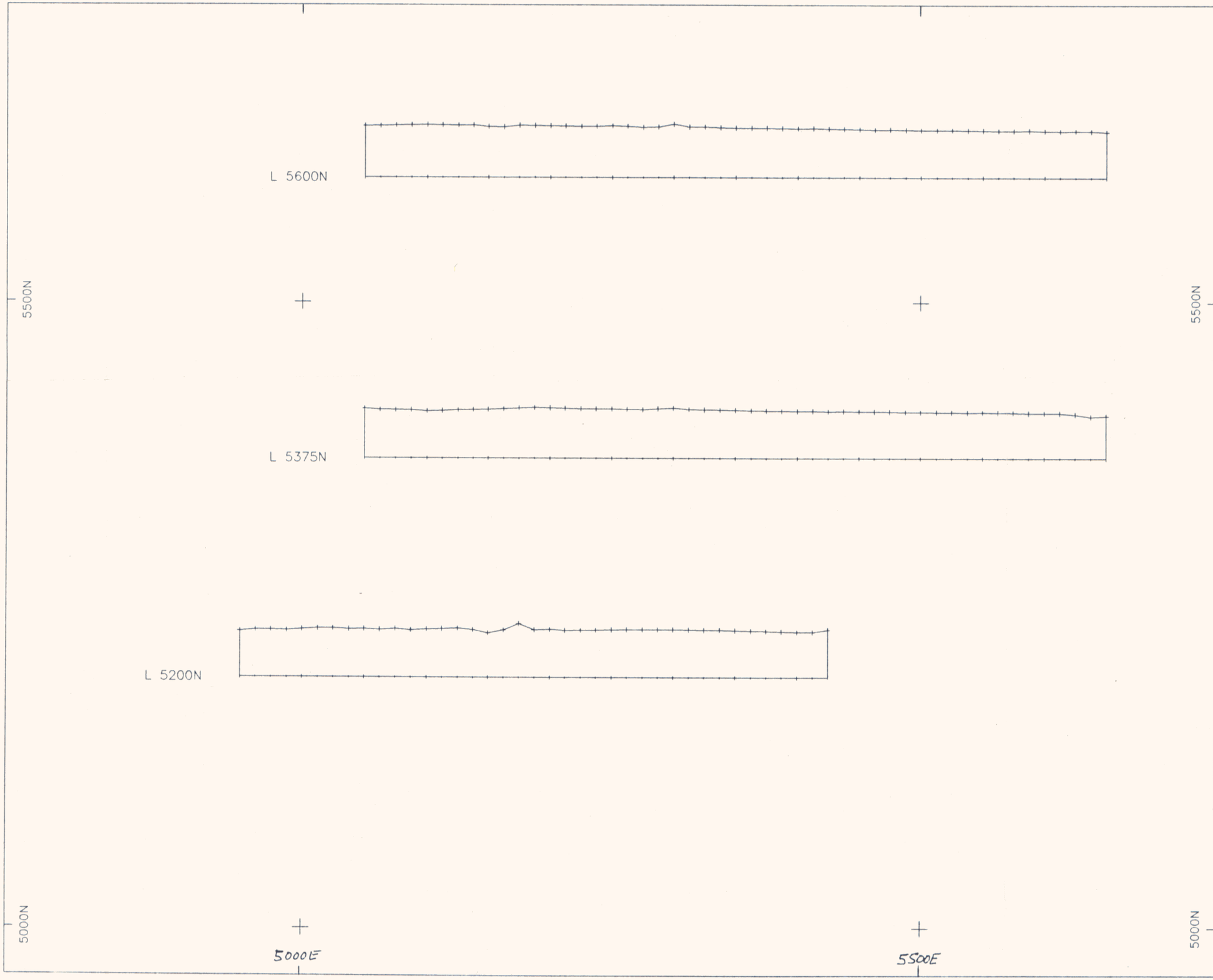
LINE: 5600N

INDUCED POLARIZATION SURVEY (Pole–Dipole Array)
SCOTT GEOPHYSICS LTD. Scintrex IPR12
June/93 Pulse Rate: 2 sec

current electrode west of receiving electrodes
Mx Chargeability is for interval 690 to 1050 msecs after shutoff







SURVEY SPECIFICATIONS

survey magnetometer	Scintrex IGS
base magnetometer	Scintrex MP4
type	proton
measurement	total field
units	gammas
diurnal corrections	base station
base cycle time	30 seconds
profile base	58000 gammas
profile scale	500 gammas/cm

093172

0 50 100 150 200

METERS

514

WESTMIN RESOURCES LIMITED

FAIRCHILD LAKE PROJECT

OLYMPIC GRID

MAGNETOMETER PROFILES

profile base = 58000 gammas

profile scale = 500 gammas/cm

DRAWN BY: ars	DATE: June/93

SCOTT GEOPHYSICS LTD.

APPENDIX H

GEOLOGISTS' CERTIFICATES

GEOLOGIST'S CERTIFICATE

I, DAVID A. CAULFIELD, of 3142 Gambier Street, Coquitlam, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 207, 675 West Hastings Street, Vancouver, British Columbia.

2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology.

3. THAT I am a Professional Geoscientist registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

4. THAT this report is based in part on property work I personally completed and/or directly supervised between June 1 and 30, 1993, government publications and assessment reports filed with the Yukon.

DATED at Vancouver, British Columbia, this 26th day of January, 1994.

David A. Caulfield, B.Geo.

PROFESSIONAL ENGINEERS AND GEOSCIENTISTS PROVINCE OF BRITISH COLUMBIA D. A. CAULFIELD GEOSCIENTIST

GEOLOGIST'S CERTIFICATE

I, Michael A. Stammers, of 941 Kennedy Avenue, North Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.

2. THAT I have practised in my profession with various mining companies in Nova Scotia, Yukon, British Columbia and the Northwest Territories for 20 years.

3. THAT I am a graduate of McMaster University (1972) and hold a combined Honours B.A. in Geology and Geography.

4. THAT I am duly registered as a Professional Geoscientist in the Province of British Columbia (#18883).

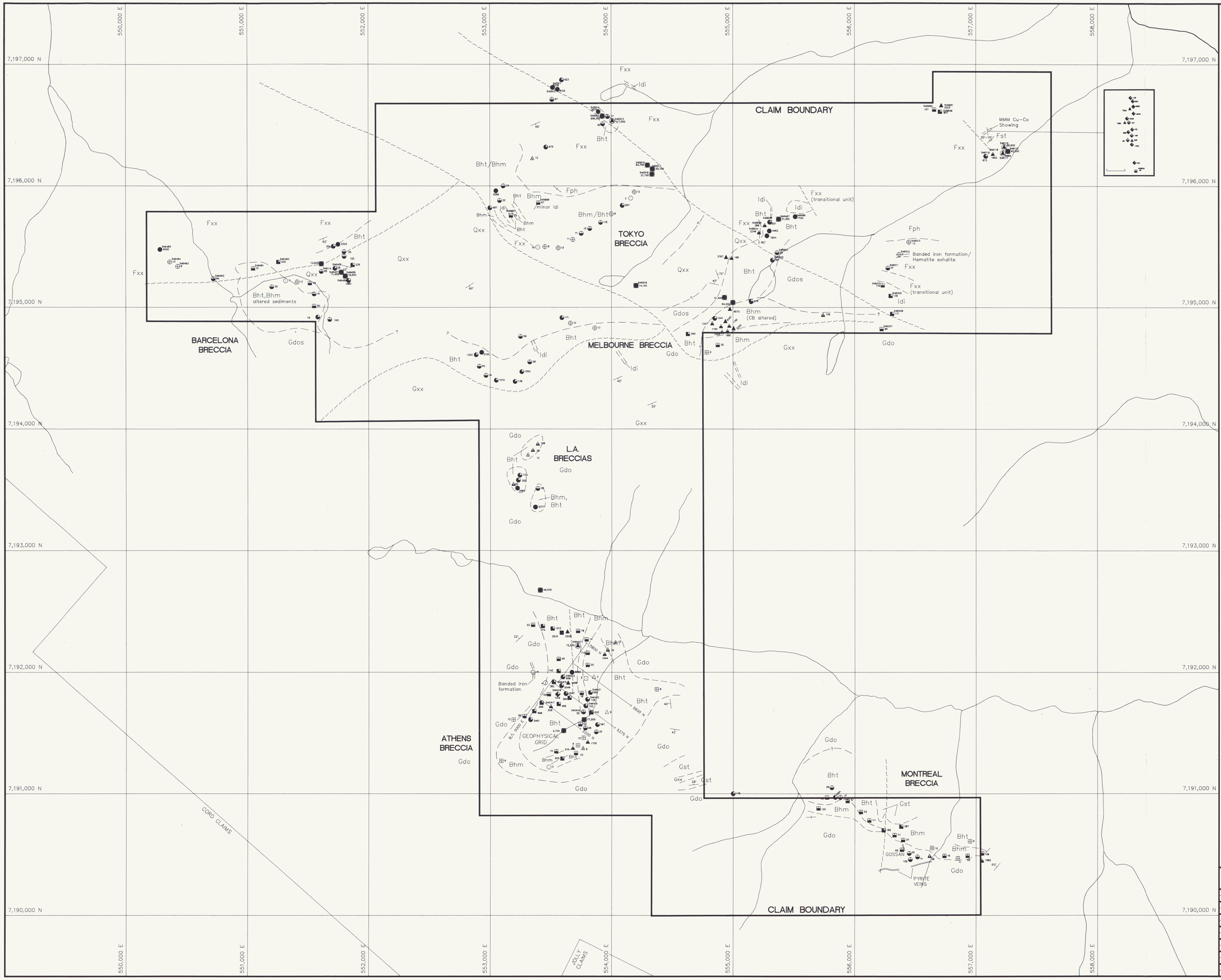
5. THAT I am a Fellow of the Geological Association of Canada.

6. THAT this report is based in part on property work I personally completed and/or supervised between June 1 and 30, 1993 combined with four years experience in the Wernecke terrain.

DATED at Vancouver, British Columbia, this 27 day of JANUARY, 1994.



Michael A. Stammers, P.Geo.



UTM GRID NORTH

NOTE: UTM GRID North is 1° 01' East of True North.

LEGEND

LITHOLOGIES

PROTEROZOIC

I *Igneous Rocks*
- Idi diorite, gabbro

B *Wernecke Breccia:*
- Bht Heterolithic breccia:
  - Bht hydrothermal matrix comprised of alteration minerals: K-feldspar, plagioclase, carbonate, quartz, pyroxene, chlorite, sericite and specular hematite
  - Bhm Homolithic breccia: ranges from well brecciated to crackle brecciated to non-brecciated wall rocks

WERNECKE SUPERGROUP

G *Gillespie Lake Group:* Buff-, orange-, grey-, and locally maroon-weathering dolomite, dolomite terrigenous admixtures, limestone, claystone, mudstone, siltstone and fine sandstone.
- Gdo dolomite
- Gdos dolomite interbedded with dark siltstone, shale, sandstone, "striped transitional unit"
- Gst siltstone
- Gxx undifferentiated

Q *Quartet Group:* Dark grey- and grey-weathering siltstone, mudstone, claystone and fine sandstone (wavy bedded); local quartzite.
- Qxx undifferentiated

F *Fairchild Lake Group:* Light grey-, greenish grey-, & locally dark grey-weathering shale, siltstone (80%), fine sandstone and limestone (20%); locally phyllites, schists and slates.
- Fph grey to green phyllite
- Fst siltstone, grey-green
- Fxx undifferentiated

SYMBOLS

- Geological Contact (approximate)
- Fault (assumed)
- Bedding/Foliation (inclined, vertical, overturned)

SAMPLE TYPES

- Grab
- Chip
- Litho
- Float

Cu Values in PPM

	<1 –	7
	7 –	13
	13 –	126
	126 –	2612
	2612 –	9858
	9858 >>>>>>>	

093172

NOTE Samples that show sample numbers were taken during the 1993 field program. Those without were collected in 1992.

– All copper values are in ppm, however values containing a "," are assay results converted to ppm.

DWG 515

Westmin Resources Limited

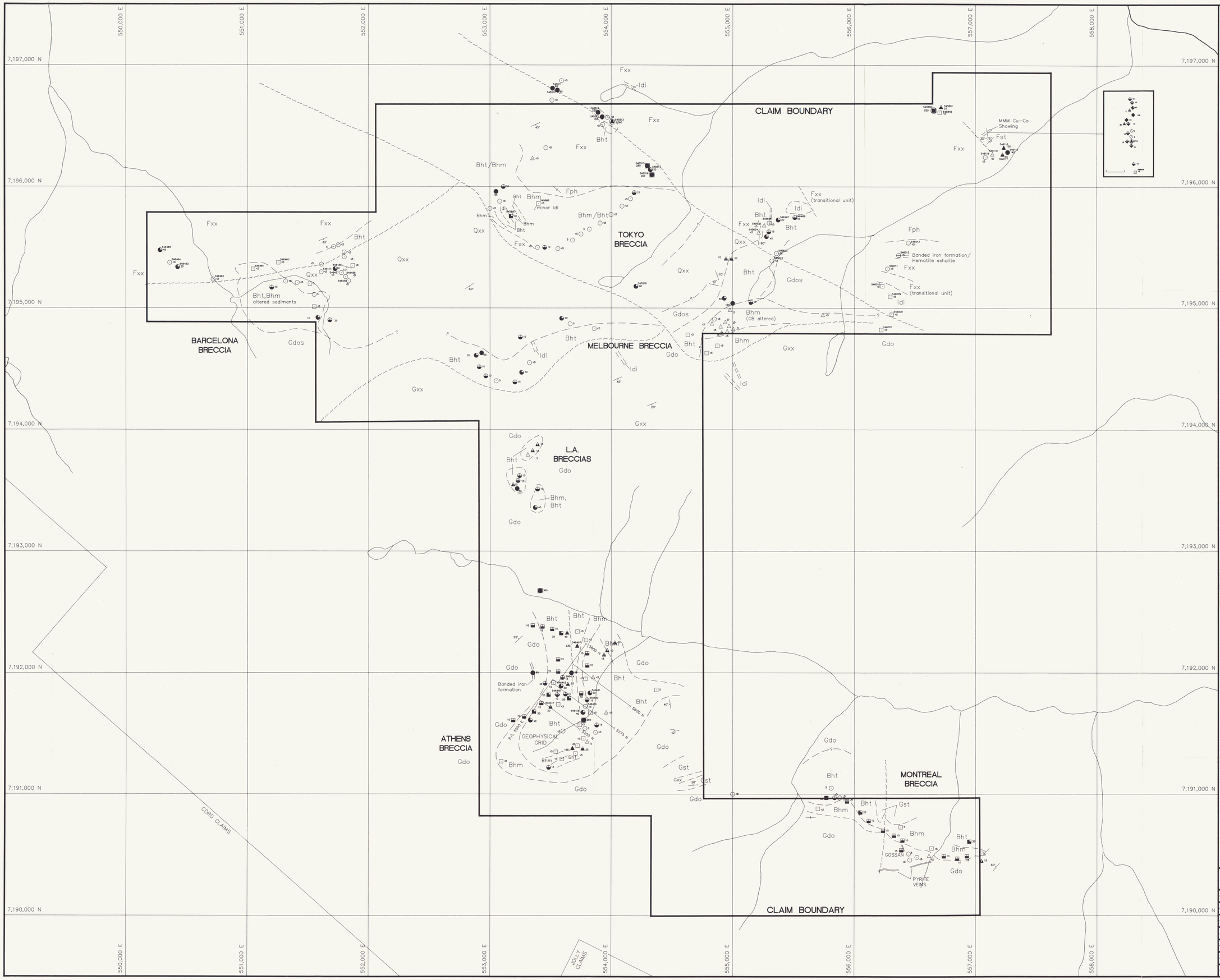
Work By	DC/MB/MS/MJ
Date Drafted	19/01/94
Drafted By	R.A. Ivany
Date Revised	
Revised By	
N.T.S. Number	106 C/13
File Name	farolymp

FAIRCHILD PROJECT
OLYMPIC PROPERTY
ROCK SAMPLE GEOCHEMISTRY

— PAMICON DEVELOPMENTS LTD —
— EQUITY ENGINEERING LTD —

200 0 200 400 600m
SCALE 1 : 10,000

Figure 4



UTM GRID NORTH

NOTE: UTM GRID North is 1° 01' East of True North.

LEGEND

LITHOLOGIES

PROTEROZOIC

I *Igneous Rocks*
- Idi diorite, gabbro

B *Wernecke Breccia:*
- Bht Heterolithic breccia:
  - Bht hydrothermal matrix comprised of alteration minerals: K-feldspar, plagioclase, carbonate, quartz, pyroxene, chlorite, sericite and specular hematite
  - Bhm Homolithic breccia: ranges from well brecciated to crackle brecciated to non-brecciated wall rocks

WERNECKE SUPERGROUP

G *Gillespie Lake Group:* Buff-, orange-, grey-, and locally maroon-weathering dolomite, dolomite terrigenous admixtures, limestone, claystone, mudstone, siltstone and fine sandstone.
- Gdo dolomite
- Gdos dolomite interbedded with dark siltstone, shale, sandstone, "striped transitional unit"
- Gst siltstone
- Gxx undifferentiated

Q *Quartet Group:* Dark grey- and grey-weathering siltstone, mudstone, claystone and fine sandstone (wavy bedded); local quartzite.
- Qxx undifferentiated

F *Fairchild Lake Group:* Light grey-, greenish grey-, & locally dark grey-weathering shale, siltstone (80%), fine sandstone and limestone (20%); locally phyllites, schists and slates.
- Fph grey to green phyllite
- Fst siltstone, grey-green
- Fxx undifferentiated

SYMBOLS

- Geological Contact (approximate)
- Fault (assumed)
- Bedding/Foliation (inclined, vertical, overturned)

SAMPLE TYPES

- Grab
- Chip
- Litho
- Float

Au Values in PPB

<5 –	5
5 –	8
8 –	18
18 –	48
48 –	243
243	>>>>>>>

NOTE Samples that show sample numbers were taken during the 1993 field program. Those without were collected in 1992.

093172
DWG 516

Westmin Resources Limited

Work By	DC/MB/MS/MJ
Date Drafted	19/01/94
Drafted By	R.A. Ivany
Date Revised	
Revised By	
N.T.S. Number	106 C/13
File Name	farolymp

FAIRCHILD PROJECT
OLYMPIC PROPERTY
ROCK SAMPLE GEOCHEMISTRY

— PAMICON DEVELOPMENTS LTD —
— EQUITY ENGINEERING LTD —

200 0 200 400 600m
SCALE 1 : 10,000

Figure 5

553500 E

554000 E

5800 N

5600 N

5375 N

5200 N

B/L 5000 E

7192000 N

7191500 N

195
303
89
132
69
132
706
437
554
593
377
577
9292
341
1002
659
370
284
343
420
325
396
474
234
158
585
760
511
789
845
175
281
362
60
33
76
132
38
190
130

NOTE: UTM GRID North is 1° 01' East of True North.

Cu Values in PPM

⊡	<1 –	40
⊞	40 –	111
◪	111 –	335
◪	335 –	648
■	648 –	911
◉	911 >>>>>>>	

093172

DWG 517

Westmin Resources Limited

Work By	DC\MB\MS\MJ
Date Drafted	05/12/93
Drafted By	S. M. Dykes
Date Revised	
Revised By	
N.T.S. Number	106 C/13
File Name	FRSOLYMP

FAIRCHILD PROJECT

OLYMPIC PROPERTY
SOIL SAMPLE GEOCHEMISTRY

— PAMICON DEVELOPMENTS LTD —
— EQUITY ENGINEERING LTD —

50 0 50 100 150m

SCALE 1 : 2,500

Figure 6

553500 E

554000 E

5800 N

5600 N

5375 N

5200 N

B/L 5000 E

7192000 N

7191500 N

760
35
<5
5
30
<5
75
40
60
30
35
60
535
65
70
90
40
50
45
55
20
<5
15
25
<5
45
40
70
60
40
10
25
40
10
15
<5
15
<5
<5
5

NOTE: UTM GRID North is 1° 01' East of True North.

Au Values in PPB

<5 –	10
10 –	18
18 –	38
38 –	72
72 –	405
405	>>>>>>>

093172

DWG 518

Westmin Resources Limited

Work By	DC\MB\MS\MJ
Date Drafted	05/12/93
Drafted By	S. M. Dykes
Date Revised	
Revised By	
N.T.S. Number	106 C/13
File Name	FRSOLYMP

FAIRCHILD PROJECT

OLYMPIC PROPERTY
SOIL SAMPLE GEOCHEMISTRY

— PAMICON DEVELOPMENTS LTD —
— EQUITY ENGINEERING LTD —

50 0 50 100 150m

SCALE 1 : 2,500

Figure 7