3-9-81

945001

UNION CORPORATION (AUSTRALIA) PTY. LIMITED

E.L. 21/80

PRELIMINARY REPORT NO. 5

N.J.W. SEPTEMBER, 1981

945c

81 - 1582

945002

UNION CORPORATION (AUSTRALIA) PTY. LIMITED N.J.W. NOVEMBER 1980

E.L. 21/80

PRELIMINARY REPORT NO.1

1. INTRODUCTION

Exploration Licence 21/80 was granted on 10th September, 1980 and is issued to 10th March, 1981 when it is subject to renewal or expiry. The area covered by the Licence is 910 square kilometres and is situated ~~west~~ EAST and south ~~west~~ EAST of the town of Scottsdale in North East Tasmania.

This report covers literature research carried out to date and briefly the results of a stream sediment orientation programme. Expenditure figures to September and October are enclosed.

2. SUMMARY OF LITERATURE RESEARCH

(a) BMI Mining Pty. Limited (S.P.L's 48 and 55 - 1971)

.....carried out an exploration drilling programme using a Gemco 5" auger drilling machine. Drilling footage was 1,886 ft. on S.P.L. 48 and 1,761 ft. on S.P.L. 55. Cassiterite was noticed sticking to the auger near the bottom of some of the holes but this was not tested for grade. An alluvial channel was located on S.P.L. 55, but the base of the channel was not located with three 198 to 200 ft. holes. It was concluded that without exceptional tin values this depth of ground would be prohibitive to work economically.

(b) Oceanic Exploration Company (E.L.'s 22/70 and 17/70 - 1976)

.....carried out a stream sediment sampling and a geological mapping programme west and south of Scottsdale. Analyses were carried out for tin, molybdenite, zinc and copper and several anomalies, of two, five and ten times the threshold values, were revealed. The threshold values were, in parts per million, tin 15, molybdenite 5, zinc 30 and copper 20. There is no record of follow-up work, conclusions or recommendations or final report only work proposals.

(c) Stannan Engineering Company Pty. Limited (E.L.'s 6/76, 7/76 and 8/76 - 1975)

.....investigated the gold belt from Branxholm to Mangana. They concluded that the Mercury site represented an outstanding opportunity to test the supposed deep-seated nature of the known lode and that the remainder of the gold belt provided good possibilities for further discoveries of worthwhile quartz-gold veins. An elaborate programme was formulated. They recommended diamond drilling to 600 ft. to test the repetitive nature of the lodes, a geochemical programme followed by geophysics and shaft sinking.

In August, 1976 after a brief field trip, a sample collected from No.1 Adit, Mercury Mine yielded 8 dwt. per ton from country rock. The sample 'was deliberately collected well away from the reef' which suggests that the Mathinna Beds slates and siltstones are auriferous .

There are no records of further work carried out on these E.L.'s.

3. STREAM SEDIMENT ORIENTATION STUDY

The results of a stream sediment orientation survey have indicated that the analysis of material in the -80 mesh fraction and the panned 'heavies' gives the best response in stream sediments that drain from areas of known tin mineralisation.

4. STREAM SEDIMENT SAMPLING PROGRAMME

.....is due to commence at the beginning of December, 1980 and it is planned that approximately 1,000 samples will be collected over a three month period.

N.J. WINNALL

Encl. 2.

002

81-1582

945004

UNION CORPORATION (AUSTRALIA) PTY. LIMITED, N.J.W., DECEMBER, 1980

E.L. 21/80

PRELIMINARY REPORT NO. 2

1. LITERATURE RESEARCH

Reports on 'open file' in the Mines Department library, Hobart show that Geopeko, in evaluating S.P.L. 103 near Mt. Victoria in 1973, investigated a 2 x 0.5 metre lode which yielded 31.1 dwt. gold, 2.8% lead, 2% zinc and a maximum value for tin of 100 ppm. Sulphides in the lode comprised mainly arsenopyrite, marcasite, pyrite, sphalerite and chalocopyrite. There was no evidence to suggest an increase in the strike or width of the lode which was considered to be joint controlled. A reported occurrence of 5% tin was probably due to analytical error.

2. STREAM SEDIMENT SAMPLING SURVEY

Approximately 400 predetermined sample points have been plotted in 1:50,000 topographical maps. The sample density of approximately one sample per two square kilometres will become greater when areas of interest are delineated from the initial survey subsequent to laboratory and statistical analyses.

Some 450 Notices of Intention to Enter Private Land have been issued to all private property owners and some lessees of Crown Land in the Exploration Licence area. This involved an extensive title search at the Valuation Division, Lands Department, Hobart.

N.J. WINNALL

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945005

UNION CORPORATION (AUSTRALIA) PTY. LIMITED. -N.J.W. - MARCH, 1981

E.L. 21/80

PRELIMINARY REPORT NO. 3

004

945006

UNION CORPORATION (AUSTRALIA) PTY. LIMITED. -N.J.W. - MARCH, 1981

E.L. 21/80

PRELIMINARY REPORT NO. 3

INDEX

E.L. 21/80

PRELIMINARY REPORT NO. 3.

A. INTRODUCTION

This report provides information about the geological exploratory work carried out for the period from 10th September, 1980 to 10th March, 1981, that is, the first six month period of tenure of Exploration Licence 21/80.

This report covers a summary of earlier work previously reported in Preliminary Reports 1 and 2 with a more detailed account of recent activities covering the period from December, 1980 to March, 1981.

The exploration licence area is considered prospective for mainly tin-tungsten mineralisation in veins and sub-horizontal sheets in granites and in veins in Mathinna Beds sediments. The contact between these two rock types and 'roof' zones of alkali granites are considered important sites for investigation. Molybdenum and gold are known to occur in the region.

B. SUMMARY OF EARLIER WORK

1. Literature Research - showed that several companies were interested in the area for mainly tin-tungsten and gold mineralisation. An alluvial prospect east of Scottsdale was percussion drilled with unfavourable results. A stream sediment sampling programme was carried out in 1976 east and south of Scottsdale (an area of approximately 100 sq. kilometres) in which numerous tin, molybdenite, zinc and copper anomalies were evident. There is no record of follow-up work yet available in open-file reports at the Mines Department, Hobart. A report on the Branxholm-Mangana gold belt revealed little of interest. An isolated quartz reef near Mount Victoria containing abundant sulphides and high tin values was investigated and found to have little potential.

2. Preliminary Field Reconnaissance - was undertaken in order to become familiar with the general geology, especially rock types, in the exploration licence area. The acid intrusive rocks comprise, in general, granodiorites, adamellites and muscovite-biotite, porphyritic and equigranular, fine to coarse grained granites. The Mathinna Beds sediments are largely siltstone, quartz-sandstone and metaquartzites some of which contain thin muscovite veins and may be subject to 'quartzitic' development nearer the granite contact. 'In situ' exposures of Mathinna sediments are rare and appear to be confined to mainly creek beds and road cuttings. There is abundant scree and talus on hill slopes which hampers geological mapping although soils developed over Mathinna Beds sediments are typically brown. There is little difference in texture character on aerial photographs between Mathinna sediments and granites in dense forest and scrub areas.

3. Stream Sediment Orientation - studies indicate that analysis of material in the -80 mesh fraction and panned 'heavies' gave the best response in stream sediments that drained from areas of known tin mineralisation. These results were obtained from eighteen wet-active

stream sediments which were dried and seived into +9, -9 +32, -32 +80 and -80 mesh fraction and each fraction analysed for tin by XRF method. The sediments were collected from streams that drained from various greisen and quartz vein deposits in the Mount Paris Mass and Ben Lomond granite areas in North East Tasmania.

C. PRESENT INVESTIGATIONS

Three hundred and eighty four predetermined stream sediment samples sites were sampled over the period December, 1980 to end of February, 1981, at an average collection rate of 6 samples per day. Care was taken to collect samples from as close as possible to the stream bed centre at stream flow deceleration points. The sediment samples were dried and seived and the coarse fraction panned to obtain a concentrate that contained heavy minerals if present. Minerals present in the panned concentrate included quartz, cassiterite, magnetite, scheelite, ?flourite, ilmenite, zircon and topaz. A batch of sixty five -80 mesh and panned 'heavy' samples were analysed for tin, tungsten, copper, lead, zinc, and molybdenite and tin respectively. Analyses of the results is presently underway which will indicate those areas that require follow-up exploratory work. Several anomalies are evident.

The stream sediment programme was carried out in order to indicate mineral distribution patterns of mainly tin in the licence area and provide a basis for future exploratory planning.

D. PROPOSED FUTURE WORK

The following programme will largely be dependent upon the interpretation and assessment of the stream sediment data. It is envisaged that the following exploratory work will be carried out :-

1. Statistical analyses and interpretation of geochemical analyses of stream sediment samples to define target areas.

2. More detailed stream sediment geochemistry followed by soil and rock-chip sampling where appropriate.

3. Geological assessment of initial target areas and detailed investigations of follow-up geochemistry.

4. Possible geophysical survey if considered useful.

5. Costeaning of specific targets delineated in the previous programme and possible shallow and deep percussion drilling.

6. Diamond drilling where warranted.

The anticipated timing of the work schedule is as follows :-

March - April - sample preparation and interpretation of geochemical data.

April - June - detailed stream sediment, soil and rock-chip sampling with geological assessment.

July - September - detailed investigations, ?geophysical survey, costeaning and drilling.

<u>September - Onwards</u> - the programme hence would depend on an overall assessment of exploratory work to date.

N.J. WINNALL

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81-158

945011

UNION CORPORATION (AUSTRALIA) PTY. LIMITED. N.J.W. JUNE, 1981

E.L. 21/80

PRELIMINARY REPORT NO. 4

STREAM SEDIMENT SAMPLING SURVEY

Dept of Mines	A.O.	C.G.	E.O.	D.S.M.E
				Registrar
Received Answered	15 JUN 1981			E & IL
DEPT. OF MINES REF. No.	4844/81			

A total of 416 stream sediment samples were panned and seived and submitted for analysis of tin, tungsten, molybdenum, copper, lead and zinc. The panned concentrates were weighed and analysed for tin by XRF. The -80 mesh samples were analysed for tin and tungsten by XRF and for copper, lead, zinc and molybdenum by $HClO_4$ digestion and AAS. determination.

The - 80 mesh determinations were grouped into those collected in streams that drain off Mathinna Beds sediments, granodiorites and adamellites/alkali granites. Several samples drain off two rock types. Complete statistical analyses for all rock types is expected to be completed soon.

Plan No.1 (attached) shows the tin content of stream sediments which were calculated from tin values in concentrates and the concentration ratio. Clearly the higher values are closely related to the adamellite/alkali granite group and also to the contact of this group with the Mathinna Beds sediments. Here the values range up to 6ozs/cu. yd. The highest values, however, occur in streams that drain from small sluiced workings in the Scottsdale area comprising Tertiary sediment covered adamellites. Here sediments contain 6 ozs and 2lbs/cu. yd. A reconnaissance investigation showed that two samples of granite contain 15 and 20 ppm. tin whereas the overlying bedrock, contains 180 ppm. tin. Other Tertiary sediments in the area yield 70 and 5 ppm. tin.

During examination of the panned concentrates several unusual minerals were recognised. 'Blackjack', a local term for a contaminant in some panned concentrates, appears to be spinel. Several samples have high magnetite contents and these are generally located in areas of granodioritic rocks. Fine-grained yellow-white flourescent minerals show an uneven distribution throughout the E.L. area and geochemical analyses indicates that the flourescent minerals are likely to be zircon. Five concentrates high in flourescent mineral content were analysed for zircon, tungsten and flourine with results of $< 0.1\%$F, <10 ppm.W and 330 ppm. to 0.3% Zr.

The areas that require detailed follow-up stream sediment sampling will be determined by statistical treatment of a stream sediment data and from inspection of data on Plan No.1.

A Statutory Declaration of expenditure from 1st March to 31st May, 1981 is attached.

N.J. WINNALL

encl - Plan No. 1,
- Statutory Declaration.

010

945012

UNION CORPORATION (AUSTRALIA) PTY. LIMITED. N.J.W. SEPTEMBER,1981

E.L. 21/80

PRELIMINARY REPORT NO. 5.

INDEX

Transparencies held

011

UNION CORPORATION (AUSTRALIA) PTY. LIMITED - N.J.W. SEPTEMBER, 1981

945013

E.L. 21/80

PRELIMINARY REPORT No. 5

A. ATTACHED

Appendix 1 - Table 1, figures 1a to 1f, 2a to 2f and 3a to 3f
Appendix 2 - Table 2
Plan No. 1.

B. INTRODUCTION

This report covers work carried out from 11th March, 1981 to 10th September, 1981. It also includes a summary of previous work reported in Preliminary Reports Nos. 1 to 4 and a detailed account of the stream sediment programme which was the main activity.

The exploration licence area is considered prospective for mainly tin and/or tungsten mineralisation in veins and sub-horizontal sheets in granites and in veins and as 'stockworks' in Mathinna Beds sediments. The contact between these two rock types, particularly in 'roof' or 'cusp' zones in alkali granites, is considered an important site for investigation. Molybdenum and gold mineralisation is known to occur in the region.

C. SUMMARY OF WORK CARRIED OUT TO DATE

1. Literature Research

Mainly exploration company reports were examined. Information covered auger drilling for 'deep lead' tin deposits, some stream sediment geochemistry, gold exploration and geochemistry of rocks collected at specific prospects.

2. Stream Sediment Survey Orientation

The survey was carried out in areas of known tin mineralisation and showed that analysis of the panned concentrates and -80 mesh fractions gave the best response.

3. Notices of Intention to Enter Private Land

Approximately 450 notices were issued to all private land owners and some lessees of Crown Land.

4. Preliminary Field Investigation

Rock types, where exposed, were examined. Abundant scree occurs and aerial photography was found to be of little use in geologically mapping heavily forested areas.

5. Stream Sediment Sampling Survey

The survey comprised the collection of 416 samples and is described below in Section D.

D. STREAM SEDIMENT SURVEY

1. Introduction

A total of 416 samples were collected each sample representing material that may have been shed from a catchment area of 2 to 3 square kilometres. It should be noted here that the survey was carried out in conjunction with exploration investigations in an adjacent E.L. area (E.L. 11/77) the holders with whom we have a joint venture.

2. Method

Wet, active stream sediment samples were collected at deceleration points on stream coursesin plastic lined calico bags. The average weight of sample was 4 kilograms which was dried, seived (to -80 mesh) and the residue was panned. The -80 mesh fraction was analysed for tin, tungsten, molybdenum, copper, lead, and zinc and the panned concentrates for tin only.

Analyses were carried out by Australian Laboratory Services (Pty) Limited in Brisbane, Queensland. Analytical data are tabulated below.

Element	Method	Limits of Detection (ppm)	Relative Precision (%)
Sn	XRF	5	± 5
W	XRF	10	± 5
Mo	$HNO_3/HClO_4$ - A.A.S	2	± 20
Cu	$HClO_4$ - A.A.S.	2	± 10
Pb	"	5	± 10
Zn	"	2	± 10

Statistical treatment of the analytical results was carried out to provide threshold values that may indicate mineralisation. The -80 mesh determinations were grouped into 3 rock categories i.e. those collected in streams that drain off Mathinna Beds sediments, granodiorite and adamellite/alkali granites. Some samples were collected from streams that drained off two or more, rock types and these were noted. The input data for the statistical analysis includes stream sediment data from E.L. 11/77 which is not shown in Table 2 (Appendix 2).

The data for each element per rock category were divided into suitable class intervals. The logarithms of mid points of the intervals were plotted against cummulative frequency per cent on probability paper.

3. Results

The analytical results are shown in Table 2 in Appendix 2.

(a) Panned Concentrate

Included in Table 2 are the weights of both sediment collected and panned concentrate which gives a concentration ratio. This was then used to calculate the amount of tin in the sediment which is shown on Plan 1 (attached).

The higher values appear to be closely related to the adamellite/alkali granite group.

The occurrence of magnetite appears to be associated with the granodioritic Pyengana Pluton which occurs in the dominantly adamellite/alkali granite suite of the Blue Tier Batholith.

Zircon occurs most often in streams draining the Scottsdale Batholith.

(b) Minus 80 Mesh Fraction

The graphical plots of log (ppm) versus cummulative frequency per cent for each element per rock group are shown in Appendix 1 as follows - granodiorite (figs. 1a to 1f), adamellite/alkali granite (figs 2a to 2f) and Mathinna Beds (figs 3a to 3f). Histograms for all elements are shown

on cummulative frequency plots.

A summary of the interpretation of the data is shown on Table 1 (Appendix 1) and threshold values and higher values (shown as multiples of the threshold values) are plotted on Plan 1 (attached). Interpretative thresholds for molybdenum and tungsten are considered invalid, except for tungsten in adamellite/alkali granite; because the number of analytical groups is less than five. In these cases a visual estimate of threshold values was adopted.

Numerous anomalies are evident which are discussed below in general terms -

- about 5 kms E.N.E. of Scottsdale tin, tungsten and molybdenum anomalies are found. In this area molybdenite in veins (Mt. Stronach) and tin in Tertiary sediments are known to occur.

- all elements, except molybdenum, occur, singly or in combination, anomalously south west of Ringarooma.

- molybdenite is anomalous over a large area in the central eastern area over the Pyengana granodiorite Pluton.

- tin, tungsten and some zinc anomalies are located at the south eastern corner of the E.L. area in streams that drain off Mathinna Beds sediments.

E. PRESENT INVESTIGATIONS

Detailed stream sediment sampling is presently underway in the south eastern areas of the E.L.

F. SUMMARY OF PROPOSED FUTURE WORK

It is proposed that the following work will be carried out on the basis of results to date.

- more detailed stream sediment sampling in anomalous areas.
- geological assessment of anomalies.
- assessment of detailed stream sediment anomalies by geological mapping, soil and rock chip sampling where appropriate.
- the on-going programme is dependent on assessment of results at this stage of the exploratory work.

A sepia transparency of Plan 1 and completed Mineral Industry Unpublished Report Data Sheet are enclosed.

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N.J. WINNALL

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Groves, D.I., Cocker, J.D., Jennings, D.K., - 1977 — The Blue Tier Batholith. Geo. Surv. Bull. 55. Tas. Dept. Mines.

McClenaghan, M.P., Baillie, P.W., - 1975 — Launceston Geol. Surv. Expl. Rpt. Geol. Atlas. 1:250,000 Series. Sheet No. SK-55/4 Tas. Dept. Mines.

Taylor, R.G., - 1978 — Tin Deposits - Geology and Exploration. Australian Mineral Foundation Workshops Course 106/78.

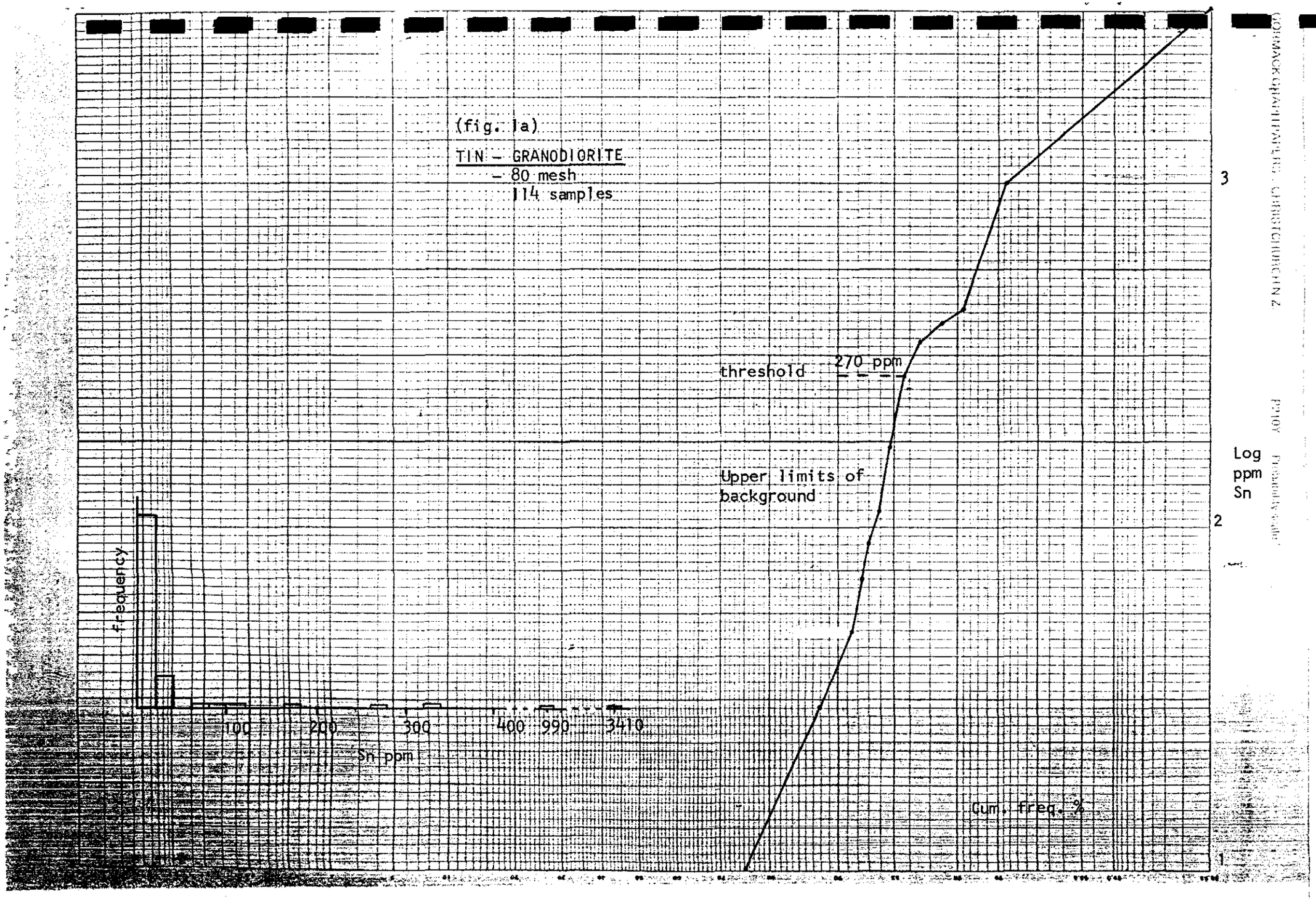
APPENDIX 1

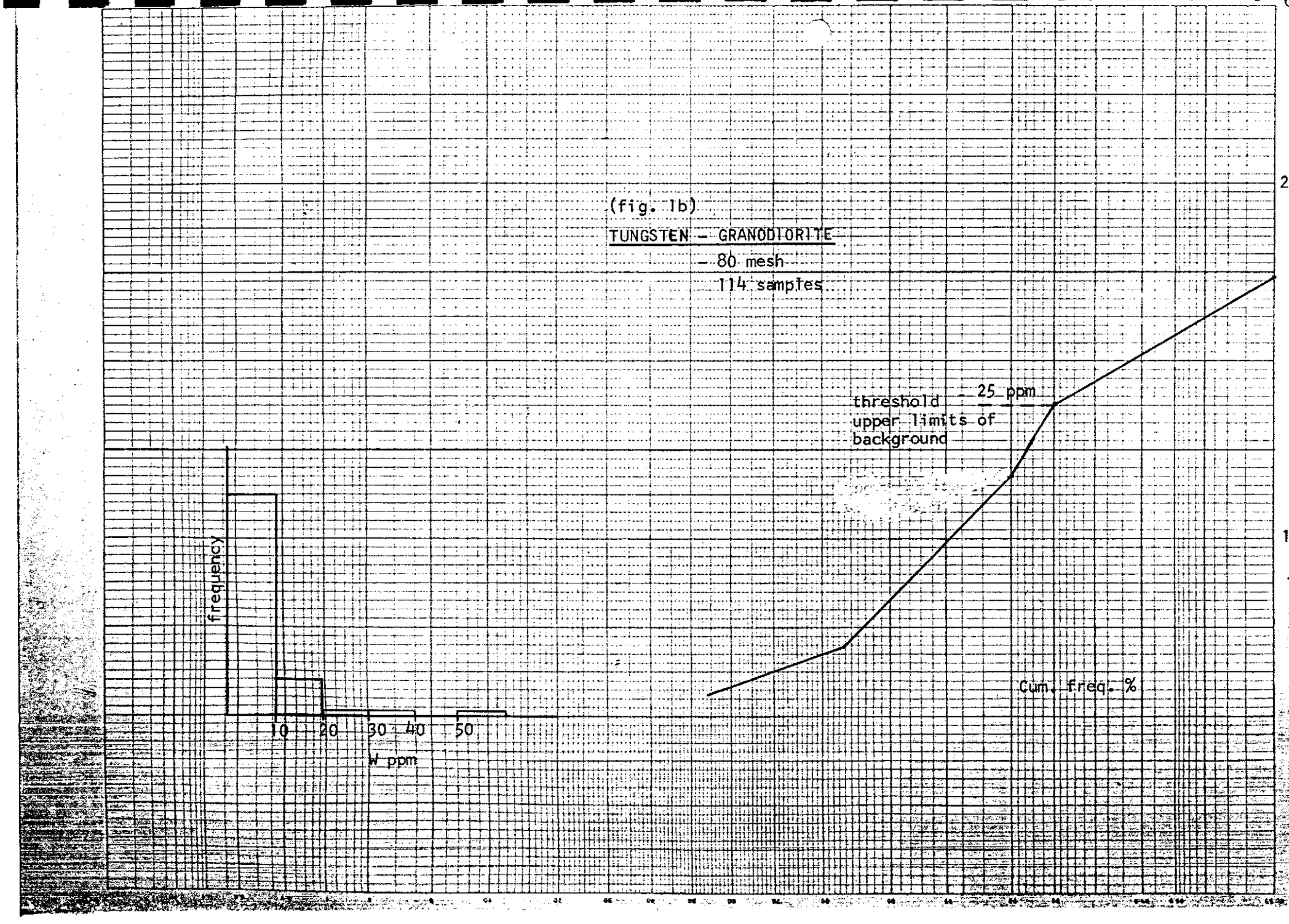
TABLE 1

Statistical Analysis Summary Sheet

		Mean	Median	Mode	Standard Deviation	Coefficient of Variation	Intrepreted Threshold	Lower Limit of Class Interval	Fig	% of values Anomalous
Granodiorite	Sn	67	10	10	334	5	270	261	1a	5
	W	?7	2.5	5	6	0.8	25	20	1b	10
	Mo	?3	5	3.5	2	0.6	10	-	1c	9
	Cu	10	5	6	10	1	26	25	1d	7
	Pb	26	20	22	11	0.4	62	60	1e	3
	Zn	43	40	52	25	0.6	108	105	1f	4
Adamellite/ Alkali Granite	Sn	463	55	85	1016	2.2	2975	2891	2a	4
	W	? 18	10	9 (8)	41	2.3	104	96	2b	3
	Mo	? 5	<5	5	2.7	0.6	9	8	2c	18
	Cu	24	20	15	27	1.1	115	111	2d	3
	Pb	24	25	27	13	0.5	57	55	2e	2
	Zn	80	70	61	73	0.9	162	145	2f	4
Mathinna Beds	Sn	42	5	2.5	93	2.2	210	191	3a	5
	W	?10	<10	<10	3	0.3	20	19	3b	4
	Mo	?3	5	5	2.3	0.7	10	9.6	3c	6
	Cu	13	10	10	7	0.6	39	39	3d	2
	Pb	26	25	27	15	0.6	87	85	3e	2
	Zn	68	65	63	41	0.6	135	127	3f	4

Values-ppm


(fig. 1a)
TIN – GRANODIORITE
– 80 mesh
114 samples
threshold
270 ppm
Upper limits of background
Log ppm Sn
3
2
1
Cum. freq. %
Frequency
100
200
300
400
990
3410
Sn ppm
5 cm



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CORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. P210Y Probability scale

(fig. 1c)

MOLYBDENUM — GRANODIORITE

~ 80 mesh

114 samples

Log ppm Mo

1

0

Cum. freq. %

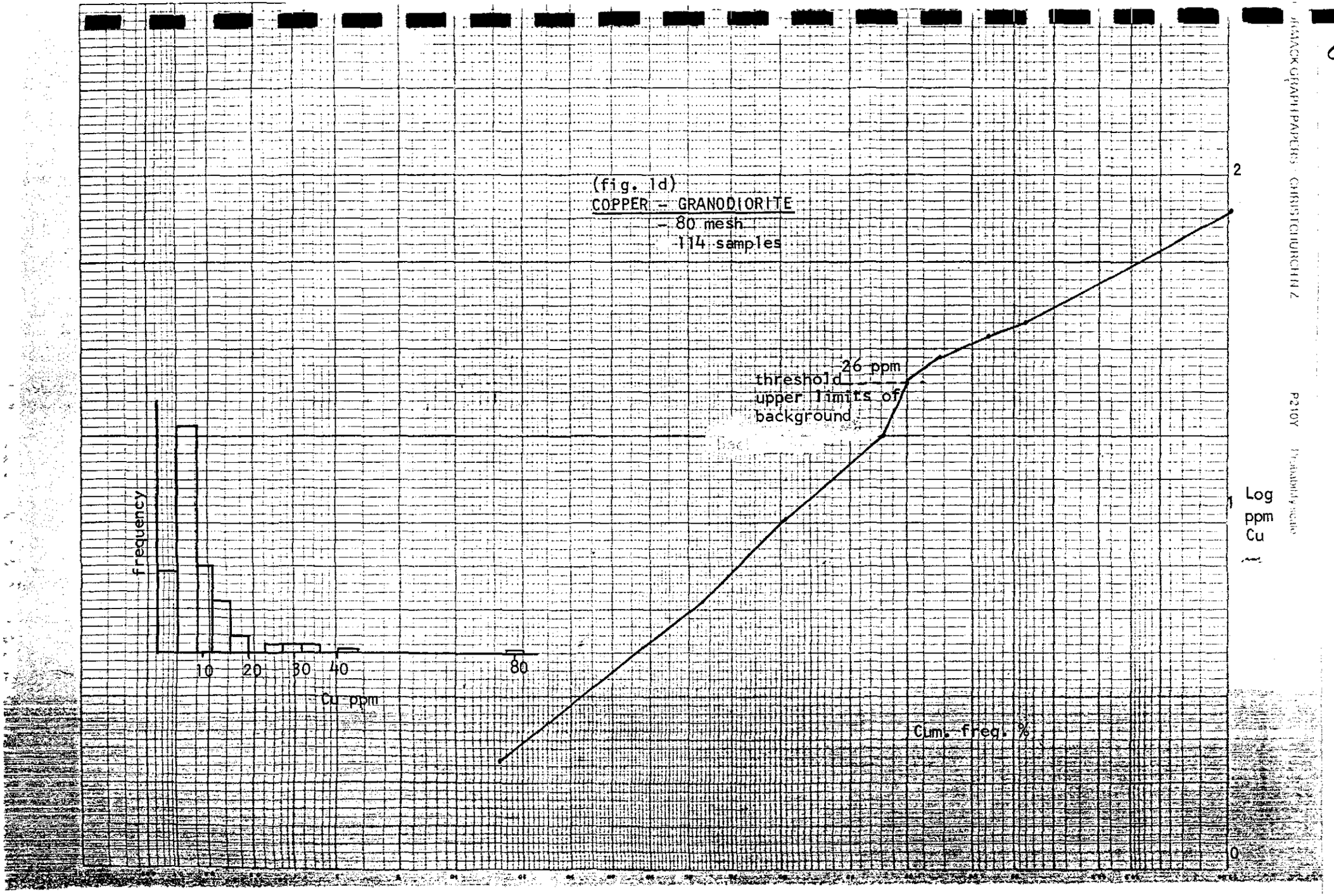
threshold 3.5 ppm

frequency

<2 5 10

Mo ppm

5 cm



5 cm

(fig. 1e)

LEAD - GRANODIORITE
-80 mesh
114 samples

62 ppm
threshold

upper limits
of background

2

1

Log
ppm
Rb

Cum. freq. %

Frequency

10 20 30 40 50 60 70 80

Pb ppm

5 cm

(fig. 1f)

ZINC – GRANODIORITE
– 80 mesh
114 samples

108 ppm
threshold
upper limits of
background

Mixed population

2

1

Log
ppm
Zn

Cum. freq. %

frequency

20 40 60 80 100 120 140 160

Zn ppm

5 cm

(fig. 2a)
TIN - ADAMELLITE/ALKALI GRANITE
- 80 mesh
135 samples
2975 ppm
threshold
upper limits of
background
0.1%Sn
Mixed population
Log
ppm
Sn
Cum. freq. %
frequency
1000
2000
3000
9400
Sn ppm
5 cm

(fig.2b)

TUNGSTEN – ADAMELLITE/ALKALI GRANITE
– 80 mesh
135 samples

10 ppm
threshold

upper limits of
background

Log
ppm
W

Cum. freq. %

3
2
1

frequency

50 100 300 350

W ppm

5 cm

025

(fig. 2c)

MOLYBDENUM IN ADAMELLITE/ALKALI GRANITE

- 80 mesh
135 samples

frequency

2 5 10 15

Mo ppm

?threshold

9 ppm

Cum. freq. %

2

1

0

Log ppm Mo

5 cm

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FORMACK GRAPH PAPERS - CHRISTCHURCH N.Z. P210Y Probability scale

(fig. 2d)

COPPER - ADAMELLITE/ALKALI GRANITE

- 80 mesh
- 135 samples

115 ppm threshold

Mixed populations?

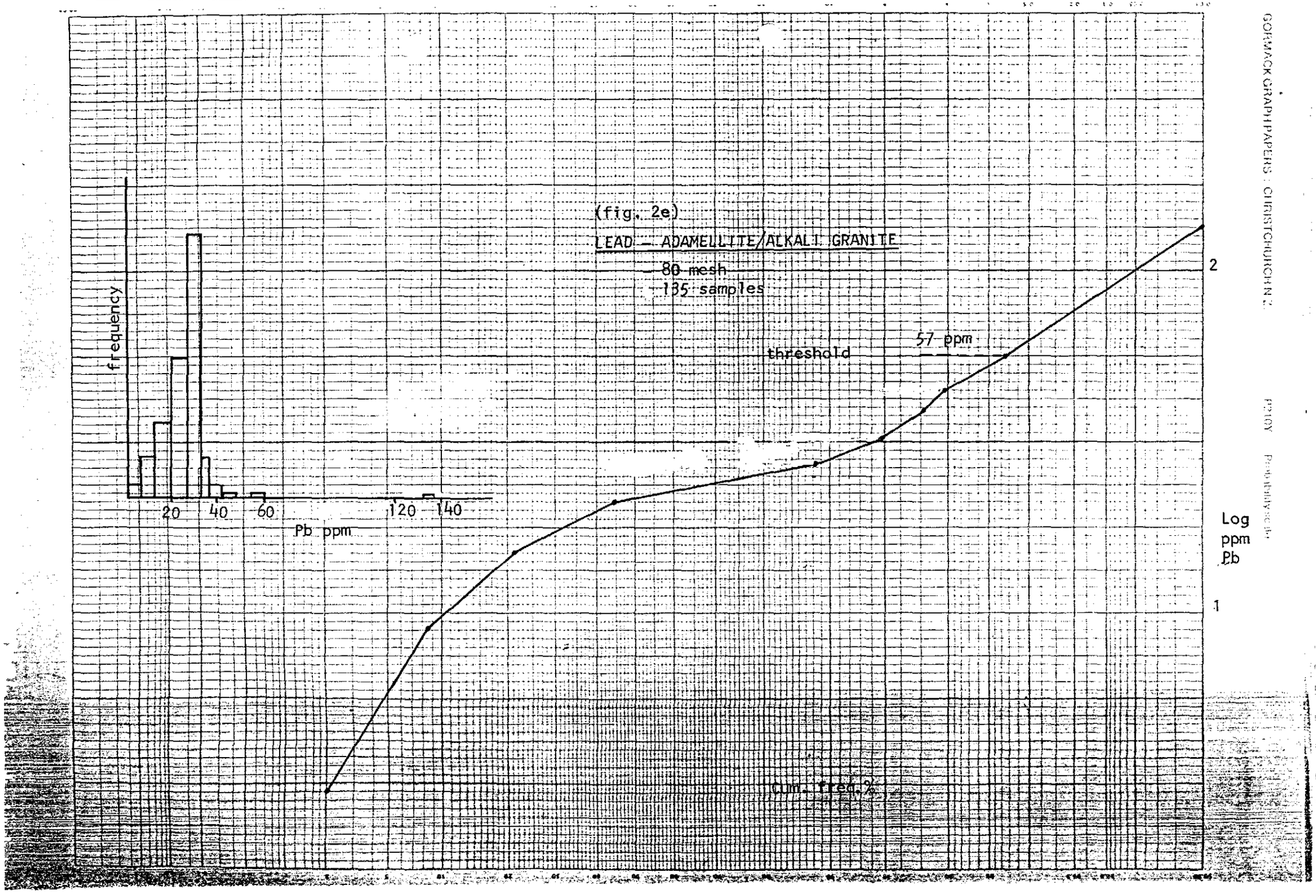
Log ppm Cu

Cum. freq. %

Cu ppm

frequency

5 cm

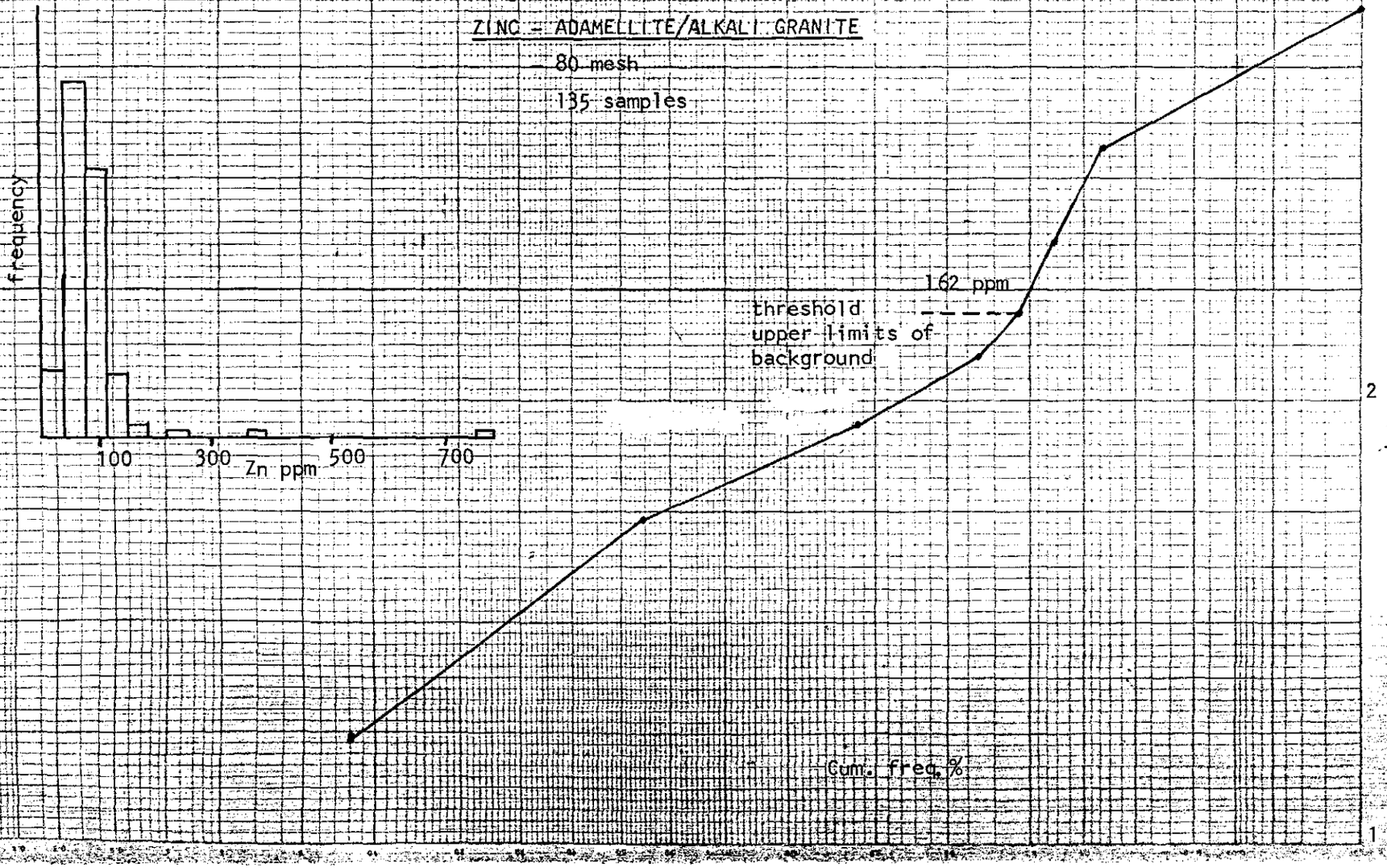


(fig. 2f)

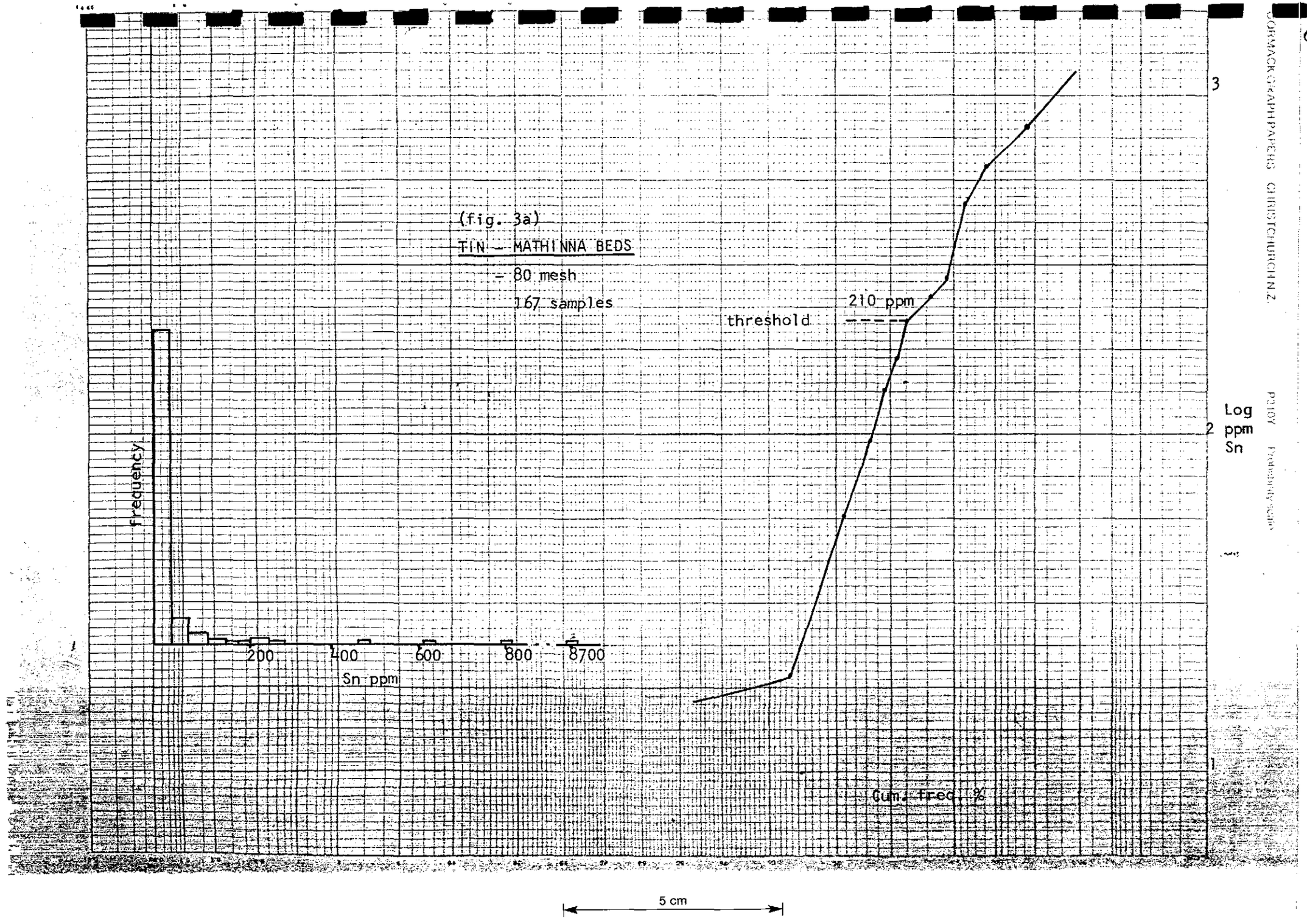
ZINC - ADAMELLITE/ALKALI GRANITE

80 mesh

135 samples



5 cm


(fig. 3a)
TIN — MATHINNA BEDS
– 80 mesh
167 samples
210 ppm
threshold
Frequency
200
400
600
800
8700
Sn ppm
Log ppm Sn
3
2
1
Cum. freq. %
5 cm

(fig.3b)

TUNGSTEN - MATHINNA BEDS
- 80 mesh
167 samples

frequency

10 20 30
W ppm

threshold 20 ppm

1.5

1 Log ppm W

Cum. freq. %

5 cm

GOLDMACK GRAPH PAPERS : CHRISTCHURCH N Z P210Y Probability scale

030

945032

(fig.3c)
MOLYBDENUM - MATHINNA BEDS
- 80 mesh
- 167 samples
frequency
2
5
10
Mo ppm
threshold
10 ppm
Mixed population
Cum. freq. %
1
0.5
Log ppm Mo
5 cm

(fig. 3d)

COPPER – MATHINNA BEDS

– 80 mesh
167 samples

threshold 39 ppm

?Multiple population

Frequency

10 20 30 40 50

Cu ppm

1

Log ppm Cu

0

Cum. freq. %

5 cm

(fig. 3e)

LEAD – MATHINNA BEDS
– 80 mesh
167 samples

frequency

40 80 120 140
Pb ppm

threshold 87 ppm

upper limits of background

Log ppm Pb

2

1

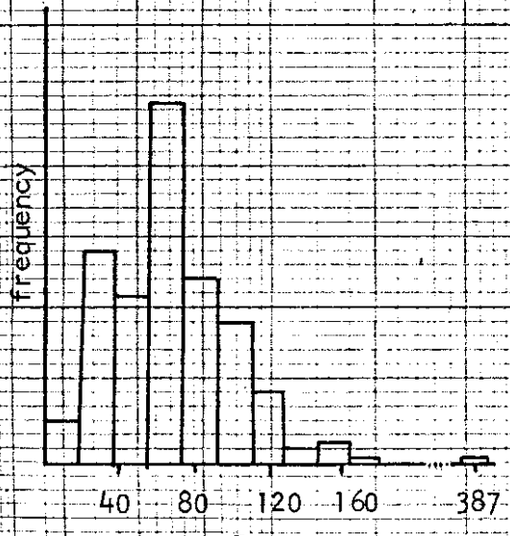
Cum. freq. %

5 cm

(fig. 3f)

ZINC – MATHINNA BEDS

– 80 mesh
167 samples



threshold 135 ppm
upper limits of
background

Two populations

Cum. freq. %

2

1

Log
ppm
Zn

5 cm

APPENDIX 2

NOTES

- see Plan No. 1. (attached) for sample localities.
- samples prefixed UCT B are - 80 mesh fractions.
- samples prefixed UCT A are panned concentrates.

Date Received 09/02/81 — SYNG

Date Completed 16/[illegible]/81 [illegible]

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W	ELEMENTS
	M	M	M	M	M	M	UNITS
	1	1	1	2	XRF-1A	XRF-1A	METHODS
UCT- B [illegible]	5	35	15	2	30	<10	
UCT- B [illegible]	80	25	115	<2	85	<10	
UCT- B [illegible]	2	20	10	<2	15	<10	
UCT- B [illegible]	5	15	30	5	30	<10	
UCT- B [illegible]	5	10	35	2	25	<10	
UCT- B [illegible]	5	15	30	2	30	<10	
UCT- B [illegible]	5	25	25	5	20	<10	
UCT- B 507	10	15	40	2	25	<10	
UCT- B [illegible]	5	15	15	2	40	<10	
UCT- B [illegible]	10	15	25	<2	20	<10	
UCT- B [illegible]	5	20	40	2	15	<10	
UCT- B [illegible]	5	15	25	5	<5	<10	
UCT- B [illegible]	5	15	30	<2	15	<10	
UCT- B [illegible]	5	20	20	2	5	<10	
[illegible]							
[illegible]							
UCT- B 517	10	15	40	2	10	<10	
UCT- B 518	25	20	55	2	20	<10	
UCT- B [illegible]	5	30	55	5	20	<10	
UCT- B [illegible]	10	40	50	5	5	<10	
UCT- B [illegible]	10	50	25	5	5	<10	
UCT- B [illegible]	5	25	55	2	15	<10	
UCT- B [illegible]	5	25	55	5	10	<10	
UCT- B [illegible]	5	25	50	5	5	<10	
UCT- B [illegible]	5	30	55	2	<5	<10	
UCT- B [illegible]	5	15	25	2	5	<10	
UCT- B [illegible]	25	30	65	2	30	<10	
UCT- B [illegible]	5	20	35	5	<5	<10	
[illegible]							

TABLE 2

UNITS LEGEND ----- M - Parts per [illegible] ppb - Parts per billion % - percent

g - [illegible] a - Absorbance

Signature: [signature]

Date Received [redacted]

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	Sn	ELEMENTS
	M	UNITS
	XRF-1A	METHODS
UCT- A 500	<5	
UCT- A 501	185	
UCT- A 502	<5	
UCT- A 503	10	
UCT- A 504	<5	
UCT- A 505	<5	
UCT- A 506	<5	
UCT- A 507	<5	
UCT- A 508	330	
UCT- A 509	<5	
UCT- A 510	<5	
UCT- A 511	<5	
UCT- A 512	<5	
UCT- A 513	<5	
[redacted]		
[redacted]		
[redacted]		
UCT- A 517	0.31 %	
UCT- A 518	155	
UCT- A 519	10	
UCT- A 520	<5	
UCT- A 521	25	
UCT- A 522	<5	
UCT- A 523	<5	
UCT- A 524	<5	
UCT- A 525	<5	
UCT- A 526	<5	
UCT- A 527	<5	
UCT- A 528	<5	
[redacted]		

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Finlayson.

045039

180

Date Received 25/02/81 SYDNEY
Date Completed 25/02/81 N.S.W.

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	S.Wt. g	Wt. of sediment Sample g
UCT- A 500	86.63	3447
UCT- A 501	76.86	3629
UCT- A 502	95.63	3629
UCT- A 503	81.37	4536
UCT- A 504	98.40	4082
UCT- A 505	28.50	?3629
UCT- A 506	39.53	?3629
UCT- A 507	97.82	3629
UCT- A 508	27.95	4082
UCT- A 509	56.57	3855
UCT- A 510	72.26	4536
UCT- A 511	103.75	4082
UCT- A 512	155.77	3175
UCT- A 513	80.76	3629
[redacted]		
UCT- A 517	31.76	?3629
UCT- A 518	71.47	?3629
UCT- A 519	160.10	3629
UCT- A 520	57.45	3629
UCT- A 521	69.97	3855
UCT- A 522	92.36	4536
UCT- A 523	43.80	4309
UCT- A 524	53.03	3629
UCT- A 525	69.55	4082
UCT- A 526	124.34	4082
UCT- A 527	75.02	4082
UCT- A 528	84.54	3629
[redacted]		

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. Finlayson.

Date received: 07/06/81

Date Completed: 18/06/81

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W
ELEMENTS						
UNITS	m	m	m	m	m	m
METHODS	1	1	1	2	XRF-1A	XRF-1A
[redacted]						
UCT- B 567	10	30	20	2	625	<10
UCT- B 568	15	45	75	2	20	<10
UCT- B 569	15	45	145	2	130	<10
[redacted]						
UCT- B 586	10	25	70	5	55	<10
UCT- B 587	10	25	80	2	55	<10
UCT- B 588	10	25	65	2	50	<10
UCT- B 589	10	40	100	<2	40	<10
UCT- B 590	15	30	80	2	35	<10

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Finlayson.

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Computer Resources Corp.

9450414

083

[redacted]

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	Sn	ELEMENTS
	m	UNITS
	XRF-1A	METHODS
[redacted]		
UCT- A 567	<5	
UCT- A 568	<5	
UCT- A 569	<5	
[redacted]		
UCT-A 586	<5	
UCT-A 587	<5	
UCT-A 588	<5	
UCT-A 589	<5	
UCT-A 590	<5	

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.J. Turlayson.

040

Date received: 2/27/87 [redacted]

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	S.Wt. g	Wt. of sediment sample g
[redacted]		
UCT- A 567	25.00	3855
UCT- A 568	25.50	3855
UCT- A 569	23.69	3402
[redacted]		
UCT- A 586	57.48	4082
UCT- A 587	49.17	4082
UCT- A 588	85.00	? 3629
UCT- A 589	25.25	4536
UCT- A 590	38.32	4536

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Turlayeva

D[redacted] C[redacted]let[redacted]18[redacted]81[redacted] [redacted] [redacted]S.[redacted]

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W	ELEMENTS
	m	m	m	m	m	m	UNITS
	1	1	1	2	XRF-1A	XRF-1A	METHODS
UCT- B 591	15	35	90	2	10	<10	
UCT- B 592	10	25	60	<2	25	<10	
[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Finlayson.

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240

Date Completed 18/02/81 [redacted] N.S.W.

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	Sn	ELEMENTS
	m	UNITS
	XRF-1A	METHODS
UCT-A 591	10	
UCT-A 592	5	
[redacted]		
[redacted]	[redacted]	
[redacted]		

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.F. Finlayson

Date Received 25/02/81 [redacted] SYDNEY
Date Completed 25/02/81 N.S.W.

Order No.: 001107 Sample Type: STREAM SED. No. of Samples: 65

SAMPLE NO.	S.Wt. g	Wt. of sediment sample g	ELEMENTS UNITS METHODS
UCT- A 591	27.03	4082	
UCT- A 592	64.18	4082	
[redacted]			

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: K. F. Finlayson.

Date Comp eted 30/03/91 N.S.W.

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo	ELEMENTS
	%	%	%	%	%	%	UNITS
	XRF 1A	XRF 1A	1	1	1	2	METHODS
[redacted]							
UCT (B)554	<5	<10	5	45	80	<2	
UCT (B)552	60	310	35	25	115	<2	
[redacted]							
UCT (B)555	<5	<10	5	20	55	<2	
[redacted]							
UCT (B)553	<5	<10	5	25	70	<2	
UCT (B)550	<5	20	10	25	65	<2	
[redacted]							
UCT (B)576	<5	30	10	30	140	<2	
[redacted]							
UCT (B)578	<5	10	15	25	75	<2	
[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Dunlop

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9450471

045

Date Completed 24/03/81

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample	ELEMENTS
	m	g	g	UNITS
	XRF 1A			METHODS
[redacted]				
UCT (A)551	<5	51.3	4536	
UCT (A)552	60	33.8	4082	
[redacted]				
UCT (A)555	<5	71.0	3629	
[redacted]				
UCT (A)557	<5	44.3	4082	
UCT (A)558	<5	62.9	3629	
[redacted]				
UCT (A)576	5	43.7	3629	
[redacted]				
UCT (A)578	5	44.5	3629	
[redacted]				

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: [signature]

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Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo
	m	m	m	m	m	m
	XRF 1A	XRF 1A	1	1	1	2
[redacted]						
UCT (B)[redacted]	<5	<10	5	15	25	<2
UCT (B)[redacted]	<5	<10	5	20	45	5
UCT (B)[redacted]	5	<10	5	30	35	10
[redacted]						
UCT (B)[redacted]	5	<10	<2	15	15	5
[redacted]						
UCT (B)[redacted]	420	<10	<2	35	15	<2
UCT (B)[redacted]	<5	<10	5	20	20	<2
UCT (B)[redacted]	<5	<10	5	20	35	<2
UCT (B)[redacted]	<5	<10	<2	30	25	<2
[redacted]						
UCT (B)[redacted]	<5	10	<2	15	35	5
UCT (B)[redacted]	10	<10	5	20	35	5
UCT (B)[redacted]	20	10	10	25	55	<2
UCT (B)[redacted]	<5	<10	5	20	35	5
[redacted]						
UCT (B)[redacted]	<5	<10	<2	10	15	5
UCT (B)[redacted]	<5	<10	<2	15	20	5
[redacted]						

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Finlayson

This laboratory is registered by [illegible] Testing [illegible] The tests [illegible] have been performed [illegible] of results [illegible] shall not be [illegible] full.

945049

047

Date Received [redacted]

Date Completed [redacted]

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample
	m	g	
	XRF 1A		
[redacted]			
UCT (A)596	40	48.0	4536
UCT (A)597	5	38.8	4082
UCT (A)598	<5	61.8	3629
[redacted]			
UCT (A)600	10	121.2	2722
[redacted]			
UCT (A)605	3.57	% 67.1	4082
UCT (A)606	50	35.8	3629
UCT (A)607	40	45.9	3629
UCT (A)608	10	32.1	4536
[redacted]			
UCT (A)612	75	52.3	4536
UCT (A)613	<5	67.5	4536
UCT (A)614	5	40.3	?4536
UCT (A)615	470	48.0	4536
[redacted]			
UCT (A)622	<5	91.5	4536
UCT (A)623	<5	62.3	4536
[redacted]			

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.J. Sinclair

Date Completed: 30/05/01

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo
	m	m	m	m	m	m
	XRF 1A	XRF 1A	1	1	1	2
UCT (B)636	10	<10	5	20	45	<2
UCT (B)631	5	<10	5	20	50	5
UCT (B)	60	<10	5	20	45	<2
UCT (B)	<5	<10	<2	15	40	<2
UCT (B)	10	<10	5	35	50	5
UCT (B)	10	<10	5	30	65	5
UCT (B)	20	<10	10	25	55	<2
UCT (B)	20	<10	5	15	20	<2
UCT (B)	15	<10	<2	15	15	5
UCT (B)642	<5	<10	5	15	25	<2
UCT (B)644	10	<10	15	20	70	5
UCT (B)645	<5	<10	10	20	45	<2
UCT (B)646	5	<10	5	15	35	<2
UCT (B)	10	<10	<2	25	25	<2
UCT (B)	15	10	<2	35	25	<2
UCT (B)649	20	<10	10	30	55	5
UCT (B)	20	<10	5	30	35	5
UCT (B)	15	<10	5	20	30	5
UCT (B)656	35	10	5	15	25	<2

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Finlayson

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Computer Resources Corp.

045051

040

Page Comp.e ec [illegible]

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample.
	m	g	g
	XRF 1A		
[redacted]			
UCT (A)626	<5	76.1	? 4536
[redacted]			
UCT (A)631	<5	70.1	4082
UCT (A)632	80	60.2	4082
UCT (A)633	5	37.5	3629
UCT (A)634	<5	50.3	4536
UCT (A)635	25	41.6	2540
UCT (A)636	<5	18.9	2540
UCT (A)637	25	15.3	2857
[redacted]			
UCT (A)640	<5	59.9	2857
[redacted]			
UCT (A)642	<5	73.9	2857
[redacted]			
UCT (A)644	<5	61.2	2540
UCT (A)645	<5	51.9	1905
UCT (A)646	<5	49.8	2222
UCT (A)647	10	63.5	3175
UCT (A)648	5	61.0	3175
UCT (A)649	75	30.7	3175
UCT (A)650	<5	157.9	3175
UCT (A)651	10	41.8	3486
[redacted]			
[redacted]			
UCT (A)656	220	60.3	2857

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Hinkinson.

050

Date Completed [redacted] N S W. [redacted]

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo	ELEMENTS
	m	m	m	m	m	m	UNITS
	XRF 1A	XRF 1A	1	1	1	2	METHODS
UCT (B)657	10	<10	15	20	30	5	
UCT (B)658	5	<10	10	20	20	5	
UCT (B)659	10	<10	10	25	60	5	
UCT (B)660	20	<10	15	35	70	5	
UCT (B)661	10	<10	5	30	45	5	
UCT (B)662	10	<10	5	20	20	5	
UCT (B)663	5	10	5	35	395	5	
UCT ([redacted]	<5	<10	15	30	15	5	
UCT (B)665	<5	<10	10	35	65	5	
UCT (B)666	15	<10	10	35	85	10	
UCT (B)667	<5	<10	10	20	70	<2	
UCT (B)668	10	<10	5	20	45	5	
UCT (B)669	20	<10	25	25	100	<2	
UCT (B)670	<5	<10	10	20	25	<2	
UCT (B)671	15	<10	15	30	105	<2	
UCT ([redacted]	10	<10	15	35	55	<2	
[redacted]							
UCT ([redacted]	5	<10	5	20	40	5	
UCT ([redacted]	5	<10	<2	30	30	<2	
UCT ([redacted]	5	<10	5	20	35	<2	
UCT ([redacted]	0.11 %	10	25	25	65	<2	
UCT (B)678	<5	<10	5	25	40	<2	
[redacted]							
UCT (B)680	165	<10	20	30	75	5	
[redacted]							
UCT (B)682	85	<10	20	40	80	5	
UCT (B)683	5	<10	20	105	15	5	
UCT (B)684	105	10	20	35	75	<2	
[redacted]	5	<10	15	50	80	5	
[redacted]	270	10	20	30	55	<2	

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Mulligan

Computer Resources Group

94363

051

Date Comp etec 24/10/... U.S.A.

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample
	m	g	g
	XRF 1A		
UCT (A)657	20	68.6	2540
UCT (A)658	180	34.6	2540
UCT (A)659	5	67.5	2540
UCT (A)660	60	64.4	2540
UCT (A)661	10	79.9	2540
UCT (A)662	<5	58.9	2857
UCT (A)663	10	56.7	3486
UCT (A)664	<5	51.2	2857
UCT (A)665	<5	58.6	2540
UCT (A)666	<5	53.4	2857
UCT (A)667	<5	63.2	2857
UCT (A)668	10	56.6	3175
UCT (A)669	25	72.3	3175
UCT (A)670	<5	52.3	2857
UCT (A)671	25	80.5	1905
UCT (A)672	25	39.1	2857
[redacted]			
UCT (A)674	<5	38.5	3175
UCT (A)675	<5	55.7	3175
UCT (A)676	10	54.2	3175
UCT (A)677	0.27 %	43.8	3175
UCT (A)678	<5	54.9	3175
[redacted]			
UCT (A)680	35	71.4	3175
[redacted]			
UCT (A)682	55	33.1	3175
UCT (A)683	20	64.5	2857
UCT (A)684	50	62.7	3175
UCT (A)685	25	41.0	3175
UCT (A)686	405	44.6	3175

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Finlayson.

052

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo
ELEMENTS						
UNITS	m	m	m	m	m	m
METHODS	XRF 1A	XRF 1A	1	1	1	2
UCT (B[redacted]	60	10	15	45	75	<2
[redacted]						
UCT (B[redacted]	10	<10	15	40	110	5
UCT (B[redacted]	<5	<10	5	25	65	<2
UCT (B)694	25	<10	15	25	95	<2
[redacted]						
UCT (B)697	<5	<10	20	15	100	<2
UCT (B)698	<5	20	5	5	20	<2
UCT (B)699	5	10	20	20	70	<2
UCT (B)700	5	20	30	25	95	2
UCT (B)701	5	<10	30	25	100	2
UCT (B[redacted]	30	<10	10	35	55	5
UCT (B[redacted]	70	20	35	70	120	5
UCT (B[redacted]	380	20	30	25	55	5
UCT (B[redacted]	170	20	25	35	65	5
[redacted]						
UCT (B[redacted]	45	20	20	20	50	5
UCT (B[redacted]	25	<10	10	20	45	5
UCT (B[redacted]	5	<10	10	30	50	<2
[redacted]						
UCT (B[redacted]	25	10	10	5	30	5
UCT (B[redacted]	10	20	15	20	45	5
UCT (B)714	5	<10	10	15	95	5
UCT (B)715	<5	<10	20	30	40	5
UCT (B)716	<5	<10	15	15	60	5

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: [signature]

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945055

050

[redacted] Completed 24/07/8[redacted] N.S.U.

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample	ELEMENTS
	m	g	g	UNITS
	XRF 1A			METHODS
UCT (A)687	15	52.9	3175	
[redacted]				
UCT (A)692	<5	41.7	3175	
UCT (A)693	<5	45.2	3175	
UCT (A)694	105	78.0	3175	
[redacted]				
UCT (A)697	60	27.1	? 3175	
UCT (A)698	5	47.6	? 3175	
UCT (A)699	10	51.9	3175	
UCT (A)700	20	22.9	3175	
UCT (A)701	30	18.6	3175	
UCT (A)702	145	54.0	3175	
UCT (A)703	30	59.6	3175	
UCT (A)704	385	49.5	3175	
UCT (A)705	90	46.5	3175	
[redacted]				
UCT (A)707	45	56.8	3175	
UCT (A)708	10	39.2	3175	
UCT (A)709	<5	30.1	3175	
[redacted]				
UCT (A)712	35	23.3	3175	
UCT (A)713	5	62.5	3175	
UCT (A)714	25	59.1	2857	
UCT (A)715	<5	48.9	3175	
UCT (A)716	<5	79.6	3175	

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Finlayson

Date Completed 30/03/84 [redacted] N.S.W.

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo	ELEMENTS
	m	m	m	m	m	m	UNITS
	XRF 1A	XRF 1A	1	1	1	2	METHODS
[redacted]							
UCT (B)718	<5	<10	20	25	70	5	
[redacted]							
UCT (B)720	<5	<10	10	135	65	5	
UCT (B)721	<5	<10	15	25	60	5	
UCT (B)722	<5	<10	20	45	65	<2	
UCT (B)[redacted]	0.10 %	<10	35	20	100	<2	
UCT (B)[redacted]	155	<10	30	15	100	<2	
UCT (B)[redacted]	740	<10	40	25	105	<2	
UCT (B)[redacted]	125	<10	40	15	105	2	
UCT (B)[redacted]	70	<10	40	20	110	<2	
UCT (B)728	<5	<10	20	20	70	5	
UCT (B)729	<5	<10	20	20	65	<2	
UCT (B)730	<5	<10	10	5	25	5	
[redacted]							
UCT (B)736	<5	<10	20	15	25	5	
UCT (B)737	<5	10	15	15	35	2	
UCT (B)739	<5	10	20	20	50	<2	
UCT (B)740	<5	10	20	20	60	10	
UCT (B)741	<5	<10	10	10	45	2.	
UCT (B)742	<5	<10	20	25	95	5.	
UCT (B)743	<5	10	40	25	95	2.	
UCT (B)744	<5	<10	25	25	95	10	
[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Wilson.

Date Completed 24/03/8[redacted] N.S.W.

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn m XRF 1A	S.Wt. g	Wt. of sediment sample. g	ELEMENTS UNITS METHODS
[redacted]				
UCT (A)718	<5	21.2	3175	
[redacted]				
UCT (A)720	<5	65.6	3175	
UCT (A)721	<5	73.3	3175	
UCT (A)722	15	42.1	3175	
UCT (A)723	0.10 %	57.2	3175	
UCT (A)724	165	47.6	3175	
UCT (A)725	0.20 %	28.3	3175	
UCT (A)726	475	39.2	3175	
UCT (A)727	50	44.5	3175	
UCT (A)728	5	40.3	3175	
UCT (A)729	<5	46.0	3175	
UCT (A)730	<5	46.8	3175	
[redacted]				
UCT (A)736	<5	83.5	2540	
UCT (A)737	<5	74.3	3175	
UCT (A)739	5	49.2	3175	
UCT (A)740	<5	8.54	2540	
UCT (A)741	<5	48.3	3175	
UCT (A)742	<5	18.8	2857	
UCT (A)743	5	32.8	1587	
UCT (A)744	<5	32.1	2857	
[redacted]				

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.F. Swanson.

94508

950

Date Completed 30/03/81 [redacted]

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo	ELEMENTS
	m	m	m	m	m	m	UNITS
	XRF 1A	XRF 1A	1	1	1	2	METHODS
[redacted]							
UCT (B)[redacted]	20	30	20	25	90	5	
[redacted]							
UCT (B)[redacted]	10	<10	15	10	35	10	
UCT (B)[redacted]	45	10	30	20	105	5	
UCT (B)[redacted]	720	<10	55	15	80	10	
UCT (B)[redacted]	380	10	40	15	80	2	
UCT (B)[redacted]	15	<10	20	5	50	5	
UCT (B)[redacted]	75	<10	30	10	95	<2	
UCT (B)[redacted]	<5	<10	10	10	40	10	
UCT (B)[redacted]	70	<10	20	20	70	<2	
UCT (B)[redacted]	30	<10	10	20	65	5	
[redacted]							
UCT (B)[redacted]	70	<10	55	15	140	5	
UCT (B)[redacted]	40	<10	15	20	85	5	
UCT (B)770	15	30	40	20	120	5	
UCT (B)[redacted]	<5	<10	10	15	55	5	
UCT (B)772	<5	<10	10	10	35	10	
UCT (B)773	10	20	5	10	30	5	
UCT (B)774	265	<10	25	15	65	10	
UCT (B)775	195	<10	30	15	75	10	
UCT (B)[redacted]	<5	<10	10	10	35	10	
[redacted]							
U[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Finlayson

Computer Resources Canada

9459059

057

[redacted] 24[redacted]/8[redacted] [redacted] S.[redacted]

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample	ELEMENTS
	m	g	g	UNITS
	XRF 1A			METHODS
[redacted]				
[redacted]				
UCT (A)750	50	98.0	3401	
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
[redacted]				
UCT (A)758	15	102.7	3741	
UCT (A)759	25	119.7	3288	
UCT (A)760	210	127.7	3430	
UCT (A)761	830	138.2	3657	
UCT (A)762	5	188.4	3571	
UCT (A)763	35	101.8	3401	
UCT (A)764	10	121.7	3600	
UCT (A)765	45	101.9	2976	
UCT (A)766	15	96.2	3004	
[redacted]				
UCT (A)768	80	85.1	3061	
UCT (A)769	20	113.3	3381	
UCT (A)770	30	105.7	3231	
UCT (A)771	<5	119.4	3175	
UCT (A)772	10	74.8	4252	
UCT (A)773	15	110.0	3996	
UCT (A)774	185	140.5	3402	
UCT (A)775	50	176.4	2946	
UCT (A)776	<5	134.9	2693	
[redacted]				
[redacted]				

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Finlayson.

Date Completed 30/07/81 N.S.W.

Order No.: ALS 001110/1111 Sample Type: CONCENTRATE No. of Samples: 235

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo	ELEMENTS
	M	M	M	M	M	M	UNITS
	XRF 1A	XRF 1A	1	1	1	2	METHODS
UCT (B)778	160	<10	30	10	75	5	
UCT (B)	<5	<10	5	10	40	10	
UCT (B)781	<5	<10	5	10	30	10	
UCT (B)	<5	<10	5	5	25	10	
UCT (B)	5	<10	15	15	55	10	
UCT (B)	<5	<10	15	20	60	10	
UCT (B)	<5	<10	10	15	45	10	
UCT (B)786	<5	<10	10	10	35	10	
UCT (B)	<5	<10	15	15	65	10	
[redacted]							
UCT (B)	5	<10	20	15	55	2	
[redacted]							
UCT (B)797	10	<10	10	10	80	5	
UCT (B)	<5	10	10	10	55	2	
UCT (B)	<5	<10	15	20	85	5	
UCT (B)	<5	10	10	15	80	2	
UCT (B)	5	<10	20	20	105	2	
UCT (B)	5	<10	20	20	90	5	
UCT (B)	<5	<10	20	20	90	5	

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.J. Dunlop

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Date Received 10/04/81 SYDNEY

[redacted]

Order No.: ALS 001110,001111 Sample Type: STR.SED.,CONCS. No. of Samples: 235

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample
	m	g	g
	XRF 1A		ELEMENTS / UNITS / METHODS
UCT (A)779	70	173.8	3543
UCT (A)780	<5	207.1	3543
UCT (A)781	30	88.2	3628
UCT (A)782	<5	152.7	3628
UCT (A)783	<5	123.3	3628
UCT (A)784	<5	148.9	3686
UCT (A)785	<5	146.6	2949
UCT (A)786	<5	30.3	1956
UCT (A)787	<5	81.8	3572
[redacted]			
UCT (A)789	5	71.1	2826
[redacted]			
UCT (A)797	20	53.6	3713
UCT (A)798	<5	57.4	3402
UCT (A)799	5	57.2	3401
UCT (A)800	5	73.0	3345
UCT (A)801	<5	45.5	3741
UCT (A)802	<5	55.3	3798
UCT (A)803	<5	48.3	3175

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A J Finlayson

Order No.: ALS 001113 Sample Type: -80# STR.SED. No. of Samples: 114

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W
	M	M	M	M	M	M
	1	1	1	2	XRF 1A	XRF 1A
[redacted]						
UCT 738B	20	25	55	5	5	<10
UCT [redacted]	15	30	60	5	5	<10
UCT [redacted]	20	30	80	10	<5	<10
UCT [redacted]	2	25	45	5	15	<10
[redacted]						
UCT [redacted]	15	25	70	5	5	<10
UCT [redacted]	15	20	50	10	5	<10
UCT [redacted]	15	20	50	5	<5	<10
UCT [redacted]	15	25	30	2	<5	<10
UCT [redacted]	15	25	35	<2	<5	<10
UCT [redacted]	15	25	55	2	<5	<10
UCT [redacted]	20	30	85	5	<5	<10
UCT [redacted]	15	25	55	5	5	<10
UCT [redacted]	20	20	65	5	5	<10
UCT [redacted]	10	25	45	2	<5	<10
UCT [redacted]	10	20	55	5	5	<10
UCT [redacted]	15	20	50	5	<5	<10
UCT [redacted]	20	25	75	5	<5	<10
UCT [redacted]	20	25	55	5	<5	<10
UCT [redacted]	20	25	65	2	<5	<10
UCT [redacted]	20	35	65	10	<5	<10
UCT [redacted]	20	30	70	5	10	<10
UCT [redacted]	40	30	100	5	<5	<10
UCT [redacted]	15	25	50	2	0.10 %	<10
UCT [redacted]	30	25	60	5	0.29 %	<10
UCT [redacted]	65	30	110	5	185	<10

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: S.F. Finlayson

T90

Da[redacted]Com[redacted]ter[redacted]92/0[redacted]51 [redacted] N.S.W. [redacted]

Order No.: ALS 001113 Sample Type: STR.SED.,CONCS. No. of Samples: 114

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample
	m	g	g
	XRF 1A		
[redacted]			
UCT 738A	<5	71.77	3175
UCT 804A	<5	24.90	3515
UCT 805A	<5	39.43	3260
UCT 806A	<5	35.28	3175
[redacted]			
UCT A810	<5	68.95	3373
UCT A811	<5	50.86	3203
UCT A812	<5	82.61	3628
UCT A813	<5	58.54	
UCT A814	<5	128.55	3175
UCT A815	<5	95.41	3203
UCT A816	<5	116.57	3203
UCT A817	5	126.02	3629
UCT A818	5	110.56	3232
UCT A819	<5	136.65	3175
UCT A820	<5	120.66	3402
UCT A821	<5	85.68	3175
UCT A822	<5	146.41	3345
UCT A823	<5	112.14	2608
UCT A824	<5	131.31	3402
UCT A825	<5	64.89	3402
UCT A826	<5	167.41	3345
UCT A827	5	53.57	2608
UCT A828	0.59 %	136.38	3657
UCT A829	0.60 %	136.27	3742
UCT A830	0.14 %	137.52	3760

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. F. Finlayson.

290

Order No.: ALS 001113 Sample Type: -80# STR.SED. No. of Samples: 114

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W	ELEMENTS
	M	M	M	M	M	M	UNITS
	1	1	1	2	XRF 1A	XRF 1A	METHODS
UCT [redacted]	60	30	110	10	445	<10	
UCT B8832	20	30	80	5.	<5	<10	
UCT B8833	15	25	95	2.	5	<10	
UCT B8834	20	20	55	2.	20	<10	
UCT B8835	20	20	50	<2	50	<10	
UCT B8836	10	25	85	5.	<5	<10	
[redacted]							
UCT [redacted]	75	35	160	5	0.94	% 40	
[redacted]							
UCT [redacted]	20	35	115	2	85	<10	
UCT [redacted]	10	20	100	<2	15	<10	
[redacted]							
UCT B8847	20	25	55	5.	120	<10	
UCT B8848	<2	15	10	5.	<5	<10	
UCT B8849	20	40	125	5.	<5	<10	
UCT B8850	30	35	160	2.	<5	<10	
UCT B8851	15	30	75	5.	<5	<10	
UCT B8852	5	15	40	5.	<5	<10	
UCT [redacted]	10	25	65	2	<5	<10	
UCT [redacted]	5	30	65	5	<5	<10	
UCT B8855	15	25	70	5.	<5	<10	
UCT [redacted]	20	35	80	5	<5	<10	
UCT [redacted]	20	30	70	10	<5	<10	
UCT B8858	15	35	145	5	<5	<10	
UCT B8859	20	85	120	5	<5	<10	
[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: D. F. Finlayson

Date Completed: 27.4.87 [redacted] R.S.A.

Order No.: ALS 001113 Sample Type: STR.SED.,CONCS. No. of Samples: 114

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample
	m	g	g
	XRF 1A		
UCT A831	805	113.76	3459
UCT A832	25	86.96	3760
UCT A833	15	62.97	3402
UCT A834	40	88.61	2155
UCT A835	170	89.13	3374
UCT A836	<5	94.16	3826
[redacted]			
UCT A839	0.32 %	93.63	3317
[redacted]			
UCT A841	30	111.39	3742
UCT A842	15	88.54	2155
[redacted]			
UCT A847	1.23 %	54.56	3544
UCT A848	260	71.93	3204
UCT A849	<5	82.27	3175
UCT A850	<5	51.19	2637
UCT A851	10	78.72	3232
UCT A852	10	62.70	3288
UCT A853	<5	78.62	3290
UCT A854	5	109.77	3303
UCT A855	10	66.99	3317
UCT A856	10	39.96	3147
UCT A857	<5	99.15	3062
UCT A858	<5	50.34	2722
UCT A859	5	64.06	3062
[redacted]			

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Dunlop

Date Completed 07/04/91 U.S.A.

Order No.: ALS 001113 Sample Type: -80# STR.SED. No. of Samples: 114

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W
	m	m	m	m	m	m
	1	1	1	2	XRF 1A	XRF 1A
UCT B861	20	35	110	5	<5	<10
UCT B862	15	25	100	2	<5	<10
[redacted]						
UCT B864	20	40	70	5	<5	<10
[redacted]						
UCT B867	15	30	35	<2	<5	<10
UCT B868	10	35	90	5	<5	<10
[redacted]						
UCT [redacted]	10	20	65	5	<5	<10
UCT [redacted]	15	25	60	10	<5	<10
UCT B874	5	20	35	5	245	<10
UCT B875	20	30	85	5	<5	<10
[redacted]						
UCT [redacted]	5	15	25	5	<5	<10
UCT [redacted]	5	5	10	5	<5	<10
UCT [redacted]	15	25	30	2	15	<10
UCT B881	20	30	110	5	<5	<10
UCT B882	45	25	35	5	15	<10
[redacted]						
UCT B890	10	25	30	10	<5	<10

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.J. Finlayson

Date Completed 09/04/81 [redacted] N.S.W.

Order No.: ALS 001113 Sample Type: STR.SED.,CONCS. No. of Samples: 114

SAMPLE NO.	Sn	S.Wt.	Wt. of Sediment Sample
	m	g	g
	XRF 1A		
UCT A861	<5	41.04	2949
UCT A862	5	25.90	3534
[redacted]			
UCT A864	<5	37.15	2608
[redacted]			
[redacted]			
UCT A867	5	95.62	2977
UCT A868	<5	79.32	3175
[redacted]			
[redacted]			
[redacted]			
UCT A872	<5	59.13	2551
UCT A873	<5	103.34	3402
UCT A874	120	74.87	3289
UCT A875	50	75.04	3799
[redacted]			
[redacted]			
UCT A878	5	89.53	3345
UCT A879	<5	78.47	2949
UCT A880	<5	49.98	3628
UCT A881	5	71.64	3570
UCT A882	25	98.52	3402
[redacted]			
[redacted]			
[redacted]			
[redacted]			
[redacted]			
[redacted]			
[redacted]			
UCT A890	15	56.75	2722

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A.F. Finlayson

Date Comp.elec 07/04/91 [redacted]

Order No.: ALS 001113 Sample Type: -80# STR.SED. No. of Samples: 114

SAMPLE NO.	Cu	Pb	Zn	Mo	Sn	W	ELEMENTS
	m	m	m	m	m	m	UNITS
	1	1	1	2	XRF 1A	XRF 1A	METHODS
[redacted]							
UCT B895	15	30	65	5	<5	<10	
UCT B896	15	30	60	10	<5	<10	
UCT B897	20	25	165	5	10	10	
UCT B898	15	30	85	5	5	<10	
UCT B899	40	30	90	2	245	<10	
UCT B900	10	15	35	<2	30	<10	
UCT B901	5	15	40	<2	<5	<10	
UCT B902	30	35	85	<2	50	<10	
UCT B903	55	35	130	5	195	10	
[redacted]							
UCT B908	5	25	70	5	<5	<10	
UCT B909	15	30	70	5	<5	<10	
UCT B910	15	30	60	5	<5	<10	
UCT B911	10	25	40	5	<5	<10	
[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: L.J. Finlayson

Computer Resources (1989)

9450969

130

[redacted]

Order No.: ALS 001113 Sample Type: STR.SED.,CONCS. No. of Samples: 114

SAMPLE NO.	Sn	S.Wt.	Wt. of sediment sample
	m	g	g
	XRF 1A		
[redacted]			
UCT A895	<5	73.08	2381
UCT A896	5	97.16	2722
UCT A897	10	119.30	2722
UCT A898	15	109.32	2892
UCT A899	100	45.43	3345
UCT A900	50	48.18	3686
UCT A901	80	64.35	3402
UCT A902	40	68.00	3119
UCT A903	410	41.02	2835
[redacted]			
UCT A908	<5	136.11	3600
UCT A909	<5	86.95	3515
UCT A910	<5	102.11	3544
UCT A911	<5	114.98	3317
[redacted]			

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Hinkleyson.

[redacted]

Order No.: ALS 001116 Sample Type: -80# No. of Samples: 3

SAMPLE NO.	Sn	W	Cu	Pb	Zn	Mo	ELEMENTS
	m	m	m	m	m	m	UNITS
	XRF 1A	XRF 1A	1	1	1	2	METHODS
[redacted]							
	0.33	%	<10	30	30	65	5
[redacted]							

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: A. J. Finlayson

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Computer Resources Company

C90

[redacted] Order No.: ALS 001116 [redacted] Sample Type: STR.SED.,CONCS. No. of Samples: 3

SAMPLE NO.	Sn	S.Wt	Wt. of sediment sample.
	m	g	g
	XRF 1A		
[redacted]			
916A	0.42	% 82.643	3203
[redacted]			

ELEMENTS
UNITS
METHODS

UNITS LEGEND ----- m - Parts per million b - Parts per billion % - percent
g - Grams a - Absorbance

Signature: S. F. Finlayson

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Computer Resources Company

9450172

C10

BRANXHOLM

RINGAROOMA

ALBERTON

Braisis Dom

Mt Paris Dam

GRID NORTH

Magnetic variation – annual change + 3'E

0 1 2 3 4 5 6 7 8 9 10 KMS

E.L.21/80

Tin content of sediments

Below limit of detection | <1 | 1 - 50 | >50

ppm Sn

5 cm

LEGEND

- Mathinna Beds Sediments
- Granodiorite
- Adamellite And Alkali Granite

945073

UNION CORPORATION (AUSTRALIA) PTY LIMITED

EXPLORATION LICENCE 21/80 – TASMANIA

STREAM SEDIMENT GEOCHEMISTRY

TIN

5 cm

2499

N.J.W.	PLAN No. 1	JUNE, 1981

81-1582

SCOTTSDALE

BRANXHOLM

RINGAROOMA

ALBERTON

Breisis Dom

Mt Paris Dom

LOCATION MAP

GRID NORTH

Magnetic variation – annual change + 3'E

0 1 2 3 4 5 6 7 8 9 10 KMS

STREAM SEDIMENT DATA BASE NUMBERS: PREFIX BY 6 (e.g. 720 becomes 6720)

NOTE DATA FOR SAMPLES TAKEN FROM OUTSIDE E.L (and in minor tenements within E.L) have been suppressed

REFERENCE

- 894 — Stream sediment sample location with number
- Road
- Track
- Exploration licence boundary
- Sample location; magnetite in panned concentrate
- Sample location; fluorescent minerals (probably zircon) in panned concentrate
- Geological Contact

Tin content of sediments

Below limit of detection | <1 | 1 - 50 | >50

ppm Sn

5 cm

LEGEND

- Mathinna Beds Sediments
- Granodiorite
- Adamellite And Alkali Granite

2499

5440000mE 550000 560000 570000 5452500mN 5450000 5440000 5430000 5420000 5410000mN 590000mE

E.L. 9/77

SPL 772

Mt Stronach

SDs

Dgd

E.L. 11/77

BRANXHOLM

RINGAROOMA

ALBERTON E.L. 7/80

PYENGANA PLUTON

Dag

E.L. 21/80

GRID NORTH

Magnetic variation – annual change + 3'E

0 1 2 3 4 5 6 7 8 9 10 KMS

SCALE 1:50,000

LOCATION MAP

Devonport
Cleveland
Launceston
St Helens
Roseberry
Renison Bell
Aberfoyle & Storey's Crk
E.L. 21/80
HOBART

SYMBOLS

- Stream sediment sample location with number (894)
- Road
- Track
- Exploration licence and Special Prospectors' licence boundary
- Sample location; magnetite in panned concentrate
- Sample location; fluorescent minerals (probably zircon) in panned concentrate

TOTAL TIN CONTENT OF STREAM SEDIMENT SAMPLES. CALCULATED FROM ASSAYS OF PANNED CONCENTRATES

Below limit of detection | <1 | 1 - 50 | >50 ppm Sn

5 cm

MULTI-ELEMENT PLOT, MINUS 80 MESH FRACTION

KEY: Sn, W, Mo, Cu, Zn, Pb

1× threshold
2× threshold
3× threshold
4 × threshold & greater

THRESHOLD VALUES

	MATHINNA BEDS	GRANODIORITE	ADAMELLITE/ ALKALI GRANITE
Sn	210	270	2975
W	20	25	104
Mo	10	10	9
Cu	39	26	115
Pb	87	62	57
Zn	135	108	162

MAJOR ROCK GROUPS, FOR PURPOSE OF STREAM SEDIMENT INTERPRETATION

- SDs — MATHINNA BEDS (quartz sandstone, siltstone, quartzwacke, mudstone, minor schist)
- Dgd — GRANODIORITE (dominantly granodiorite with minor adamellite) – SCOTTSDALE BATHOLITH
- Dag — ADAMELLITE & ALKALI GRANITE (dominantly granite/adamellite with minor granodiorite) – BLUE TIER BATHOLITH
- Geological boundary – approximate
- Geological boundary – inferred

NOTE: Geology after – Brown et al (1977)
– Groves et al (1977)
– McClenaghan et al (1974)

945074

UNION CORPORATION (AUSTRALIA) PTY LIMITED

EXPLORATION LICENCE 21/80 – TASMANIA

5 cm

STREAM SEDIMENT GEOCHEMISTRY

TIN, TUNGSTEN, MOLYBDENUM COPPER, LEAD & ZINC

2498

N.J.W.	PLAN No. 1	JUNE, 1981

81-1382

2498