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CORINNA PROJECT

**EL43/94 CORINNA
WESTERN TASMANIA**

ANNUAL REPORT TO 4/1/99

Volume 1 of 3

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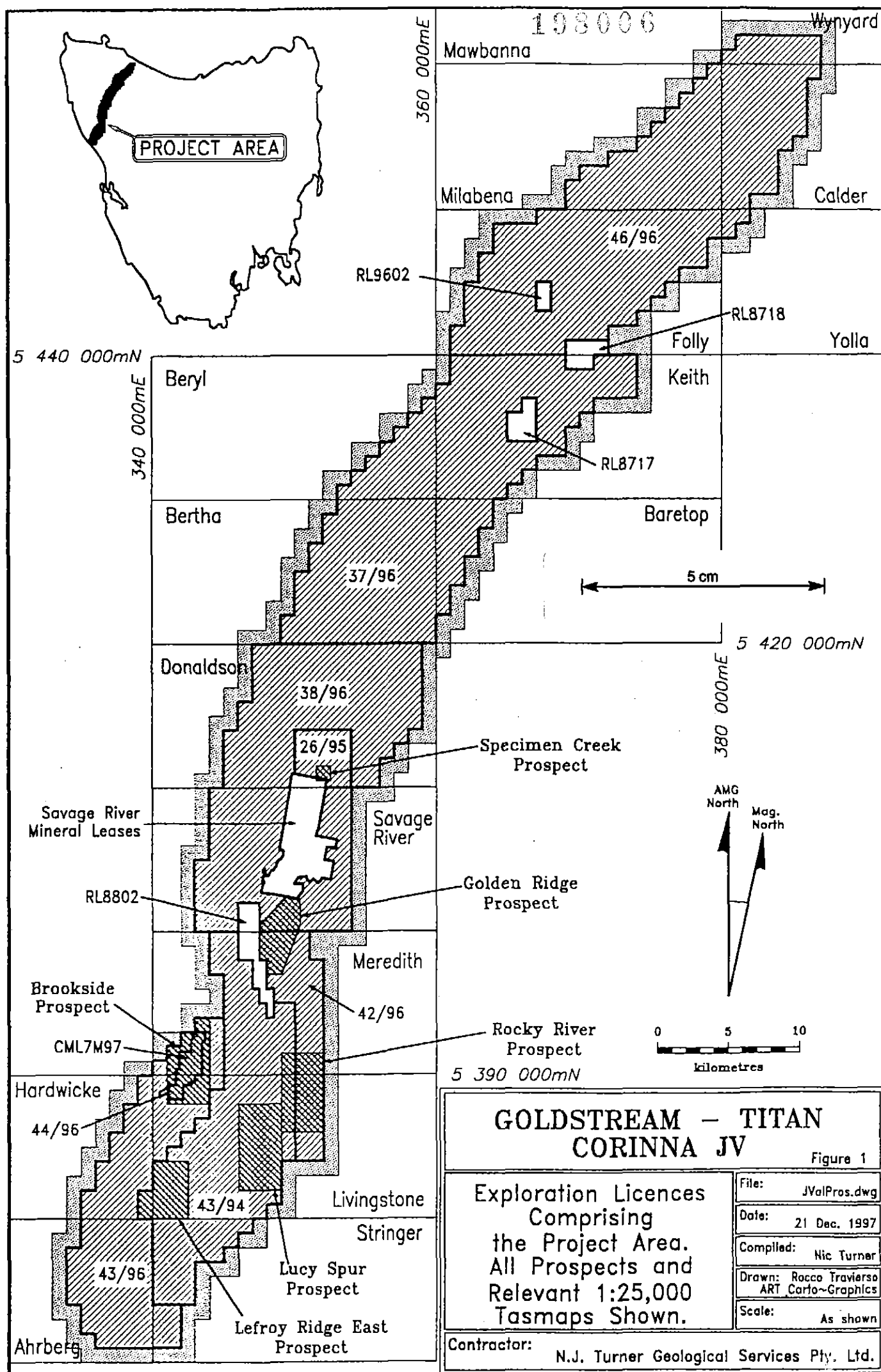
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1.0 Summary

- Close-spaced stream sediment sampling was extended north from the Rocky River Prospect and east from the Lefroy Ridge East Prospect. In all, 107 extra sites were sampled. Gold anomalism is present in both the new areas.
- C horizon soil sampling was carried out at Lucy Spur, Rocky River and Lefroy Ridge east for a total of 1420 samples.
- Scattered anomalous soil values occur around the southern adits at Lucy Spur. They indicate that there is a northerly trending structure which probably links through to the hydraulic workings.
- Rock chip and channel sampling in the southern adits and hydraulic workings has returned some interesting gold values but no substantial body of mineralisation has been established.
- Regional stream sediment sampling has commenced in EL43/94.
- Recommended future work includes further investigation of a silver anomaly in soils at Rocky River, soil sampling at Graham Creek and continued regional stream sediment sampling.

2.0 Introduction

This report documents the work carried out in EL43/94 Corinna during the year to 4.1.99. It should be read in conjunction with the two previous annual reports - to 4.1.97 and to 4.1.98.

The annual report to 4.1.97 provides tenement and land tenure details. It outlines exploration concepts, geology, historical mining and prospecting, and modern mineral exploration. As well, the report presents the results of a reconnaissance stream sediment survey and of a detailed helimag survey.

In the annual report to 4.1.98 work in prospect areas at Lefroy Ridge East, Lucy Spur and Rocky River is described. This work included geological mapping, rock chip sampling, close-spaced stream sediment sampling and first-pass diamond drilling.

3.0 Tenement information

EL43/94 has an area of 127skm and is located in western Tasmania (Figure 1), just east and south east of the township of Corinna. The licence will remain current to 3.2.2005, providing that the licensee's performance is deemed satisfactory by the Tasmanian Minister of Mines.

4.0 Previous work by Goldstream and Titan

Reconnaissance panned concentrate and -80# stream sediment samples were collected at 115 sites in the area of historical prospecting and alluvial mining between Browns Plain and the Pieman River. Microscope and electron microprobe studies of the gold grains in the panned concentrates indicated that much of the gold was locally derived. Gold in

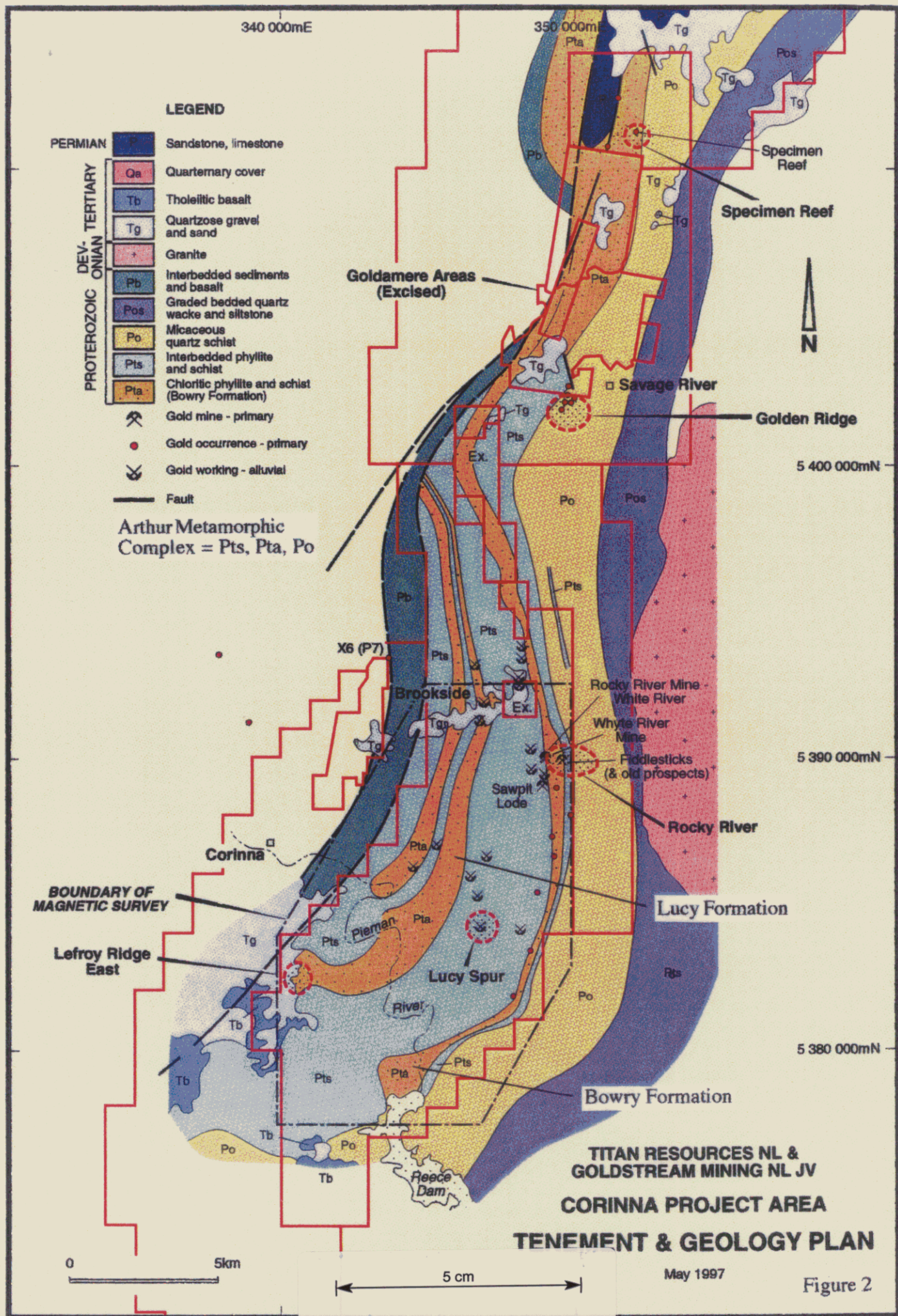


Figure 2

what later proved to be the Lucy Spur hydraulic workings tailrace creek seemed likely to be closest to source.

Counts of the gold grains in the panned concentrates together with gold analyses of the -80# samples showed that values of the metal are elevated around Lucy Spur, in the Owen Meredith River to Paradise Creek segment of the Bowry Formation, and at Rocky River. Previous BLEG stream sediment work by another company attracted interest in the Lefroy Ridge East area.

Close-spaced panned concentrate and -80# stream sediment sampling was carried out at Lucy Spur (206 extra sites), at Rocky River (60 extra sites) and at Lefroy Ridge East (68 sites). Also, long forgotten adits south of the Lucy Spur hydraulic workings were rediscovered.

The Joint Venture moved quickly to a first pass diamond drilling program which ultimately totalled approximately 2200m within EL43/94. Holes were drilled beneath the southern adits at Lucy Spur and beneath a nearby, very localized stream sediment anomaly. Holes were also drilled beneath aeromagnetic anomalies at Lefroy Ridge East. Drilling at Rocky River investigated the old Rocky River mine and a nearby stratigraphic interval at the eastern boundary of the Bowry Formation which has rock chip anomalism, localized stream sediment anomalism and a complicated aeromagnetic pattern. Iron formation lies adjacent to this interval.

No substantial grades were encountered by the diamond drilling but widespread gold anomalism was established with higher values in the range 0.1-0.5gpt. Anomalous gold was shown to occur in quartz-muscovite schist, mafic schist, metabasalt and iron formation. Mapping and rock chip sampling in the southern adits at Lucy Spur identified altered granitoid breccia with anomalous gold, antimony and copper.

5.0 Work within this reporting period

Work in this reporting period has again focussed on Rocky River, Lucy Spur and Lefroy Ridge East. Close-spaced stream sediment sampling was extended northwards from the Rocky River Prospect to investigate possible extensions of gold anomalism in the Bowry Formation and adjacent rocks in the Graham Creek area. An extra 45 sites were sampled (Plan 8). Close-spaced stream sediment sampling was also extended eastwards at Lefroy Ridge East to take in the regional fold closures in the Lucy Formation. Another 62 sites were sampled in this area (Plan 13).

The stream sediment and hard-rock gold anomalism that was previously demonstrated in all three areas was further investigated by C horizon soil sampling. At Lucy Spur a system of ridge and spur tracks was cut through an area of about 7skm and a total of 552 soil samples were collected at 50m intervals (Plan1). Soil sampling at Rocky River targeted the main stream sediment gold anomaly with 175 samples being

collected at 50m and 25m intervals on a series of six cut lines covering an area of 1.5skm (Plan 6).

A line was cut eastward at Lefroy Ridge east to give access to the largest and most intense aeromagnetic anomaly in the Lucy Formation. This line and a perpendicular line across the anomaly were sampled at 50m and 25m intervals for 110 soil samples (Plan 13).

Fairly detailed work was carried out around the old hydraulic workings and the southern adits at Lucy Spur. A 2km x 0.5km x 100m grid was cut over the workings as well as some nearby anomalous localities that had been identified by the ridge and spur sampling. Soil samples were collected at 25m intervals on the grid lines (Plan 4). More detailed work was also carried out in the Lucy Formation, west of the Lucy Spur workings, where infill ridge and spur lines were soil sampled at 50m and 25m intervals (Plan 4). Altogether, another 572 C soil samples were collected in the two localities.

Geological mapping and rock chip sampling were carried out in conjunction with the stream sediment and soil sampling work. In particular, detailed mapping and sampling of the old Lucy Spur workings was completed (Appendix 1, Map 4). A small suite of samples from the southern adits were the subject of petrological studies (Appendix 8,10).

During the season lithological logs were produced for diamond drill holes LSDDH1 and 2 at Lucy Spur, RRDDH2 at Rocky River and LREDDH2 at Lefroy Ridge East (Appendix 9). Logs for the other drill holes are given in the annual report to 4.1.98.

6.0 Results

6.1 LUCY SPUR PROSPECT

6.1.1 Stream sediment samples

Analytical results for the Lucy Spur stream sediment samples were given in the last annual report (to 4.1.98) but only the gold results were discussed. Panned concentrate assay results of ≥ 75 micrograms Au per 9 litres of -4cm, active stream gravel (≈ 5 ppb) are common throughout the area. Values of ≥ 1500 micrograms (100ppb) are also widely scattered.

In the -80# fraction $Au \geq 5$ ppb is common in the upper reaches of Lucy Creek and in the south eastern part of the prospect in streams which drain the Bowry Formation. High values of $Au \geq 100$ ppb are unusual in the -80# fraction. The highest value of 380ppb occurs 200m downstream of the old crushing plant near the southern adits and is likely to be artificial.

Antimony is associated with gold in the southern adits and appears in the stream sediment results as a train of anomalous values (0.4-0.9ppm) extending 700m downstream from the workings. A cluster of more

strongly anomalous antimony values (0.4-2.6ppm) occurs around 346600E 5387400N in a stream where there is distinctive quartz vein detritus, similar to quartz veins in the southern adits. Copper is also associated with gold in the southern adits. However, it is only anomalous (≥ 50 ppm) in a tiny stream immediately adjacent to the adits.

Lead, zinc, silver, arsenic, bismuth, molybdenum and tungsten are either not anomalous in the stream sediments or not coherently anomalous. There is a very marked, coherent tin anomaly (20-600ppm) in the most northerly stream system in the Lucy Spur Prospect. The anomaly extends for at least 1.5km downstream. It does not appear to be related to Tertiary gravels on the interfluvium between the northern stream system and Lucy Creek but could be related to Tertiary gravels further to the east. Several rock chips (G2260-2262) with relatively high tin were collected in the stream last season. However, there needs to be repeat sampling to eliminate the possibility of contamination by detrital cassiterite adhering to the surfaces of the samples.

6.1.2 Ridge and spur C soil samples

6.1.2.1 Data

Much of the Lucy Spur Prospect was covered by reconnaissance C soil sampling on lines cut along ridges and spurs. Sample types and the analytical method (BCL) are described in Appendix 2. Analytical results are listed in Appendix 2A.

A and B horizon soils were sampled along with C horizon soil on a ridge line which crosses the southern adits. They did not provide better BCL sensitivity to gold (Appendix 2C).

Subsamples of 30 of the C soils collected near the southern adits were analysed by fire assay/digest-AAS methods (Appendix 2B). Ratios of fire assay gold over BCL gold range 0.6-123 but are commonly 4-18. Similar common ratios apply to digest-AAS Cu over BCL Cu. Thus, the BCL method appears to substantially undervalue gold and copper in these soils though it defines relative anomalies in much the same places as the other methods. Further fire assay/digest-AAS analyses are possible as Analabs still holds 200gm subsamples of all other C soil samples.

6.1.2.2 Ridge and spur anomalies

Scattered BCL Au ≥ 3 ppb was encountered in the northern, central and southern parts of the Lucy Spur Prospect (Plan 2) but BCL Cu ≥ 10 ppm is sparse. There is scattered BCL Ag ≥ 0.04 ppm in the southern and central area but the analytical detection limit for the northern samples was 0.1ppm.

In the western part of the prospect consistent values of $\text{Au} \geq 3\text{ppb}$ and $\text{Cu} \geq 10\text{ppm}$ define a coherent anomaly in the Lucy Formation. The Lucy Formation consists of muscovite-rich schist, mafic schist and amphibolite.

6.1.3 The old workings

6.1.3.1 Grid C soil sampling

The grid was designed to cover the southern adits, the old hydraulic workings and several of the scattered anomalous localities identified by the ridge and spur sampling. These latter (Plan 2) include a site 350m SSW of the southern adits which returned an exceptional BCL Au value of 605.4ppb and fire assay gold of 5872ppb. Another locality is 500m NNW of the old hydraulic workings. It returned relatively high values of 43.7ppb Au and 22.83ppb Au along with anomalous silver.

Soil sampling on the grid (Plan 4, Appendix 2) returned scattered values of BCL $\text{Au} \geq 3\text{ppb}$, mostly between lines 1S and 6N (Plan 5). The exceptional site 350m SSW of the southern adits repeated at 58.6ppb Au, indicating a substantial nugget effect in the soils. Relatively high values at the two sites just west of the exceptional site were not repeated. The initial values at these sites probably resulted from contamination by the exceptional sample during laboratory processing. The locality 500m NNW of the hydraulic workings was not picked up by the grid sampling.

Compilation of the soil results in Plan 5 suggests that there is a narrow, unevenly mineralised structure extending northwards from line 1S to disappear beneath the Tertiary capping near line 6N. An anomalous intersection in LSDDH2 of 12m at 70ppb (max 160ppb) at 259-271m occurs almost vertically below the surface expression of this structure.

Altered granitoid, altered schist and distinctive quartz veining which extend west from the adits appear to reflect cross-structuring. Part of the system was intersected at relatively shallow depths in LSDDH1 & 2 where it is barren of gold.

6.1.3.2 Channel and rock chip sampling

Two of the three accessible southern adits have been channel sampled and all three have been rock chip sampled (Plan 4, Appendix 1,4). A total of 38x2m channel samples from the upper adit returned a maximum of 15ppb gold whilst 18 rock chips included five ranging 21-87ppb Au with another two from the back of the stope (Figure 3, Appendix 2) containing 0.74ppm (2966) and 1.4ppm (2967). The assemblage of altered granitoid, altered schist and distinctive late quartz veins is well developed in the upper adit but is virtually unmineralised except at the back of the stope.

Alteration and veining are also well developed in the top adit but the two rock chips collected were below detection limit in gold. Two rock chips from the open stope contained 20ppb and 110ppb Au.

Mineralisation is more pronounced in the lower adit where 15x2m channel samples detected a 10m interval in altered granitoid breccia (G1277-1281) with average gold of 110ppb (max 270ppb), average antimony 109ppm (max 250ppm) and average copper 152ppm (max 430ppm). Arsenic, molybdenum and tungsten are slightly elevated. Of 19 rock chips from the lower adit four exceeded 1ppm Au with a very thin limonite veinlet giving an exceptional 101ppm (2940).

In the accessible adit at the old hydraulic workings 5x2m channel samples detected one 2m interval (2993) which gave very variable duplicate gold analyses of 6.27ppm, 2.6ppm, 15.9ppm, 3.63ppm and 2.36ppm. Repeat sampling of the interval (3642) gave gold analyses of 0.33ppm, 4.65ppm and 0.8ppm. A total of 8 rock chips derived from the adit and associated mullock included 5 ranging 25-70ppb plus one (4010) which returned duplicate gold analyses of 6.64ppm, 5.83ppm and 37.4ppm. The very variable duplicate gold analyses in samples from this adit presumably reflect a coarse gold nugget effect.

In a trench in the floor of the hydraulic workings 5x2m channel samples included three ranging 45-100ppb Au and another at 1ppm Au.

Samples from the south western pits and trenches (Plan 4) comprised 10 rock chips. These ranged 10-150ppb Au.

Alteration and veining similar to the southern adits is evident in the accessible adit and trench at the hydraulic workings and in the south western pits and trenches. No granitoid breccia was recognised in these localities but some of the altered rocks appear to have been medium grained felsic intrusives.

Petrological studies have been made of a small number of samples from the southern adits (Appendix 8,10). Intense hydrothermal phyllic alteration of a granitic precursor is indicated. Tourmaline, apatite and topaz are present. The style of alteration and veining is characteristic of quartz-sulphide systems though the associated antimony is unusual (Appendix 10).

6.1.4 Lucy Formation soil anomaly

Infill C soil sampling over the Lucy Formation (Plan 4) further substantiated the coherent Au-Cu anomaly. BCL Au values commonly range 3-15ppb (Plan 5) whilst BCL Cu values commonly range 10-50ppm. BCL Ag is not significant. There is one exceptional value of 89.5ppb Au (4867) and one exceptional value of 146.6ppm Cu(3182).

Geological mapping (plans 3,5) shows that the soil anomaly coincides with a unit of magnetite-bearing amphibolite which contains subordinate interbanded schist. A total of 21 rock chips (Plan 4, Appendix 4) were collected in, and adjacent to, this amphibolite body. One of the adjacent mica schists (4016) returned 80ppb Au, 141ppm Pb and 1685ppm Zn. An amphibolite with minor quartz veining (4030) returned 30ppb Au and 444ppm Cu. Otherwise, the rock chips contain gold below detection limit (10ppb), copper below 229ppm, lead below 79ppm and zinc below 242ppm. Arsenic and silver are insignificant.

In view of the comparison described above of BCL and fire assay/digest results for soils over the Lucy Spur adits, it seems likely that the BCL method has undervalued gold and copper in the Lucy Formation soils. If so, the absolute values of gold and copper in the soils may be too high to attribute to the <10ppb background in the 21 rock chips that were analysed. Some check analyses using the 200gm subsamples held by Analabs is desirable. Further rock chip sampling of the interbanded and adjacent schist is also desirable in view of the anomalous gold, lead and zinc in 4016.

6.2 ROCKY RIVER PROSPECT

6.2.1 Graham Creek Stream sediment and rock chip samples

In the northern extension of the Rocky River Prospect around Graham Creek (Plan 8) there is a good correspondence of anomalous -80# gold values (≥ 5 ppb) with the boundary between the Bowry Formation and the Oonah Formation (Plan 9). This is the anomalous stratigraphic interval that was drilled by RRDDH1 and RRDDH2 (Appendix 9).

The anomalous -80# gold values are mostly in the range 6-16ppb with higher values of 45ppb and 100ppb. There is no corresponding panned concentrate gold anomaly. In the entire Graham Creek area only one anomalous (≥ 75 micrograms) pan. con. result was obtained, a very moderate 284 micrograms. The site of the sample is in Graham Creek near the western boundary of the Bowry Formation.

Support for the -80# gold anomaly is provided by elevated to anomalous silver (≥ 0.1 ppm). Also by anomalous copper (≥ 50 ppm) and zinc (≥ 70 ppm) though these metals occur more widely (Plan 10). North of 5390500N, which is the southern boundary of the Graham Creek area, copper has a stronger anomalous range of 50-650ppm than it does to the south where the range is 50-85ppm. Anomalous zinc values are also stronger, ranging 70-340ppm compared with 70-100ppm in the south. In the south there are high zinc (silver, lead, antimony) values in lower Cataract Creek but these are suspect. Just upstream of the sample sites there is old metal fluming that was used for the Rocky River water race.

Anomalous lead (Plan 10), arsenic, antimony, bismuth (Plan 11) and molybdenum, tin and tungsten (Plan 12) are either non-existent or sparse in the Graham Creek area.

A total of thirteen rock chips were collected in the area (Plan 8, Appendix 1,4). limonitic pyritic mullock (3615) from an old prospect in the eastern Bowry Formation returned 35ppb Au, 260ppm Cu. Further east, ferruginous quartzose boulders in lower Goodall Creek gave 50ppb Au, 1489ppm Cu (3617) and 45ppb Au, 1993ppm Cu (3618).

6.2.2 C soil samples

Soil sampling was carried out in the central part of the Rocky River Prospect (Plan 6) It targeted the main stream sediment gold anomaly delineated by the 1996/1997 sampling program (see EL43/94 to 4.1.98). This gold anomaly was defined by both panned concentrate and -80# results. It includes an important part of the section of the Rocky River that has been intermittently worked for alluvial gold since the early days. In particular, it includes the locality where McGinty and his party found their 7kg nugget.

Three holes were diamond drilled in the area during the first-pass round of drilling in 1996/1997. These holes intersected anomalous gold ranging up to 0.5ppm, copper up to 4503ppm and silver up to 6ppm. The soil sampling was aimed at identifying other areas for possible drilling.

Anomalous BCL gold (≥ 3 ppb) and BCL copper (≥ 10 ppm) in the Rocky River soils are of similar order to anomalous values in soils over the Lucy Formation, west of Lucy Spur. Gold commonly ranges 3-9ppb with higher values of 17.10ppb and 17.80ppb on lines 3N and 1N respectively. There is an exceptional value of 83.6ppb Au on the old waterrace track, 80m upslope from the spot where McGinty's nugget was apparently found. Anomalous copper commonly ranges 10-33ppm and there are no exceptional values although the highest copper value of 32.26ppm is associated with the exceptional gold value.

Unlike the Lucy Formation soils the Rocky River soils have returned a coherent silver anomaly (0.04-0.23ppm) on lines 2N and 3N. Soil movement on the steep slopes may have exaggerated the width of the anomaly. The presence of the silver anomaly lends interest to the combined Ag, Pb, Zn, Sb stream sediment anomaly in lower cataract creek that is regarded as suspect because of the old fluming.

One of the higher gold (17.10ppb) - copper (32ppm) pairs occurs within the silver anomaly. The anomaly is also close to rock chip sample G1294 at 349735E 5389515N in Cataract Creek (see EL43/94 to 4.1.98). This thinly banded, leached pyrite-?hematite-silicate-?carbonate rock returned 140ppb Au, 4500ppm Cu and 56ppm Ag. As well, an intersection of approximately 100ppb Au and 5.5ppm Ag was encountered at 105.2-

107m in nearby RRDDH1. Anomalous gold deeper in the hole is not associated with silver.

Analysis by fire assay/digest AAS methods of the subsamples of the C soils held by Analabs is desirable in respect of the Rocky River silver anomaly. This would be likely to establish the metal levels in the soils more accurately. It would also allow a range of elements to be determined. Similar analyses should be carried out for the exceptional gold sample, and surrounding samples. The further analytical work may give support for infill sampling.

6.3 LEFROY RIDGE EAST PROSPECT

6.3.1 Stream sediment samples

Anomalous gold in the Lefroy Ridge East stream sediments (Plan 13) registers mostly in the panned concentrate samples, there being relatively few -80# values $\geq 5\text{ppb}$. Three separate anomalous areas are present in the prospect - in the northwest, in the southwest and in the east around the large aeromagnetic feature (Plan 14).

The southwestern anomalous area is small but coincides with the southern part of a larger silver anomaly ($\geq 0.15\text{ppm}$) which extends 1km north to 5381000N. The north western gold anomaly is about 1.5km long by 1km wide. One anomalous site at 340475E 5382950N is within Tertiary gravel so it is likely that some of the gold at other sites is sourced from the gravels. However, in the northern part of the anomaly there is scattered, but more or less coincident, copper ($\geq 50\text{ppm}$), lead ($\geq 20\text{ppm}$), zinc ($\geq 70\text{ppm}$) and silver anomalism. Thus, some of the gold may be related to a polymetallic system.

Around the magnetic feature in the east there is polymetallic anomalism. It includes panned concentrate gold ranging 111-5200 micrograms per 9 litres of -4cm, active stream gravel. Microscope descriptions of the gold grains (Appendix 6) in the pan. cons. show that they retain evidence of original crystallinity and are unlikely to have travelled far. There is no evidence of the Tertiary gravel mineral suite which is associated with the well rounded, far travelled gold in sample 6059 (last sample in Appendix 6).

Other anomalous elements in the eastern area include silver (Plan 14) copper, lead, zinc (Plan 15), antimony (Plan 16) and possibly sparse molybdenum (Plan 17). Anomalous molybdenum ($\geq 1\text{ppm}$) is unusually common in the central western part of the Lefroy Ridge Prospect and seems to be derived from the Tertiary gravels. A little anomalous tin ($\geq 20\text{ppb}$) also appears to be derived from the Tertiary gravels.

Eleven rock chips (4040-4050) were collected in the eastern aeromagnetic feature. Descriptions and analyses are included in

Appendix 4. No interesting metal values are evident. Three of the rocks are fine grained, massive felsic types which may be Devonian intrusives.

6.3.2 C soil samples

The range of anomalous gold in soils in the Lefroy Ridge East Prospect is 3-17ppb whilst the range of anomalous copper is 10-24ppm. These values are similar to values for the Lucy Formation and Rocky River soils but lack the one or two, exceptional numbers.

Drill hole LREDDH2 tested below soil values of 3.82ppb Au, 18.16ppm Cu. Maximum fire assay/digest - AAS numbers from the core are 0.167ppm Au, 1790ppm Cu.

6.4 REGIONAL STREAM SEDIMENT SAMPLING

Late in the 1997/1998 field season the Joint Venture commenced a regional stream sediment sampling program aimed at providing coverage of its entire block of tenements. Samples include a panned concentrate derived from 9 litres of -4cm active gravel, a -40# bulk sample of about 2kg and a -80# sample derived as a subsample from the bulk sample.

The -80# samples are analysed by fire assay/digest AAS/XRF whilst the -40# bulk sample is analysed by BCL. Results for samples collected in EL43/94 are given in Appendix 5. A comparison of -40# and -2mm BCL analyses with the close-spaced sampling methods used in the various prospects is also given in Appendix 5.

7.0 Conclusions

Stream sediment sampling in the northern extension of the Rocky River Prospect has shown a continuation of the association of gold with the interval of stratigraphy that includes the boundary between the Bowry Formation and the Oonah Formation. There is a marked increase in the magnitude of copper and zinc values in the Graham Creek area.

Stream sediment sampling at Lefroy Ridge East has shown that there is a source of locally derived gold in the large aeromagnetic feature in the eastern part of the prospect. Also, there is coincident polymetallic anomalism involving silver, copper, lead, zinc and antimony. Overall, the anomalism seems to be subtle.

C soil sampling over amphibolite, mafic schist and muscovite schist at Lefroy Ridge East, west of the Lucy Spur workings and at Rocky River has returned very similar ranges of BCL Au and BCL Cu. BCL Au usually ranges up to between 15 and 20ppb whilst BCL Cu usually ranges up to 24-30ppm. These results define the normal values for soils over the particular rocks involved. They are not really anomalous. Values of around 80ppb gold and 140ppm copper are mildly anomalous.

Mapping and sampling in the old workings at Lucy Spur have shown an association of Au-Sb-Cu in quartz-sulphide (carbonate) veins and in phyllic altered granitoid, particularly in the lower southern adit and at the hydraulic workings. Tantalizing gold values are present but no continuity of mineralisation has been established. Drilling at the hydraulic workings appears to be the remaining option.

Soil sampling at Rocky River has identified a coherent silver anomaly.

8.0 Recommendations

Analabs is currently holding 200gm subsamples of the soils sampled during the 1997/1998 season. The appropriate subsamples should be analysed by fire assay/digest - AAS methods for a range of metals in order to better define and extend the Ag anomaly at Rocky River. High gold and copper values in all areas should be remeasured in this way.

Regional stream sediment sampling should be carried out in the unworked parts of the tenement including the Paradise Creek-Bounds Creek segment of the Bowry Formation.

Reconnaissance soil sampling should be carried out at Graham Creek to see if the Cu, Zn, Au values are more interesting than they are around Cataract Creek and Nolan Creek.

Additional rock chip sampling of the schists associated with the amphibolite west of the Lucy spur working should be carried out.

9.0 Environmental matters

No new work requiring environmental rehabilitation has been undertaken in the reporting period. No rehabilitation of existing drill pads, tracks or helipads has been undertaken.

10.0 References

- Turner, N.J. 1997 Exploration Licence No 43/94 Corinna. Annual report to 4.1.97. Goldstream Mining NL and Titan Resources NL.
- Turner, N.J. 1997 Exploration Licence No 43/94 Corinna. Annual report to 4.1.98. Goldstream Mining NL and Titan Resources NL.

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.99

APPENDIX 1

LUCY SPUR AND ROCKY RIVER PROSPECTS: NOTES ON GEOLOGY, OLD
WORKINGS, SOIL AND ROCK SAMPLES.

by

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May, 1998



GOLDSTREAM MINING N.L.

22-May-1998

MEMORANDUM

To NJ Turner

From BC Terry

CONTENTS

This report details field work which was undertaken during November and December 1997, and February to May 1998. Most of the work was carried out on the Lucy Spur Prospect (EL 43/94); a short period was spent on several other prospect, as far north as Specimen Creek.

- 1.0 Regional prospecting on the EL43/94, from the Whyte to Paradise river.
- 2.0 Details of the Adits and Lucy Spur hydraulic workings.
- 3.0 Soil sampling at Lucy Spur.
- 4.0 Rock sample descriptions.

1.0 REGIONAL PROSPECTING

The majority of work was focused upon the area of Lucy Spur; with a minor amount further to the north around the Whyte River and Rocky River.

The structural trend of the rocks, defined by the cleavage is N to NNE, dipping moderately to steeply east. The most predominant rocks in the area are low grade metamorphic schists.

1.1 Whyte River - Rocky River area

Dominated by a variety of greenschist rocks such as quartz chlorite albite mica schist and micaceous quartz schists. Amphibolites are also more common in this region, both magnetic and non-magnetic, the former is the most abundant. Quartz carbonate veins/units are also present, pyrite is common as with some hematite and magnetite units. There is also the presence of epidote alteration and some pre-cleavage granitoid units. There is a minor exposure of pyritic hornfels, most likely associated with the meta-volcanics.

At Rocky River, 10m down from the junction of Nolan Creek, there is an adit and rocks of mineralogical interest. Around river and in this region, old workings indicate the presence of gold. Previous sampling on the west side of a quartz carbonate unit, returned anomalous values of copper and gold. At the end of the adit (36m approximately along strike) a sample (3612 at 349515mE, 5388915mN) of amphibolite with quartz veins and disseminated sulphide returned 0.29ppm gold. The quartz carbonate does contain some disseminated pyrite; and it also appears to be deformed. It is hard to determine if this rock is a unit, or a part of some old fracturing, as there has been some movement along it.

In some creeks to the north of the Whyte River are common boulders of magnetite and hematite, as well as some outcrop. The samples 3617 (349359mE, 5392175mN) and 2618 (549225mE, 5392475mE) of boulders, were of hematite and limonite with minor quartz (some cryptocrystalline). These samples have 0.05 ppm Au, as well as 1489 ppm Cu and 1993 ppm Cu respectively.

1.2 Lucy Spur

The rocks in the region of Lucy Spur are dominantly low grade metamorphic schists and phyllites. Micaceous quartz schist and quartz chlorite albite mica schists are the most common rocks in the area. There are a few amphibolite units, becoming more common in the Lucy Formation to the west. Old workings and adits are concentrated around an area of granitoid intrusion, alteration, post-cleavage brecciation and late veining.

In one of the eastern creeks which was prospected (around 348150mE, 5386185mE), the schist is laminated with quartz rich (sandstone?) and mica rich (siltstone?) portions; showing the original sedimentary character. In the south of the area from samples 2984-2988 there are regions of what appeared to be silicified rocks and lower grade metamorphic rocks such as phyllite and slate. The silicified rocks upon comparison to similar rocks further west down the Paradise River are some sort of quartz rich sandstone?

Interspersed through the schist are a small number of meta-basalt/volcanic bodies, both magnetic and non-magnetic. These massive units of amphibolite commonly have albite aligned along the foliation, the amount of magnetite and disseminated pyrite is quite variable. Some of the meta-volcanics have a diorite texture (more albite and lighter colored), while others have an andesitic/basaltic texture. Orange clays are a common weathering feature of the amphibolites; as is an iron oxide precipitate, which forms thick crusts in the western areas.

Several buck quartz veins which trend in an E-W direction, cut obliquely to the main foliation of the schist. The vein width varied from 10cm to over a meter. Some of these veins contain trace amounts of hematite and pyrite, especially on fracture surfaces. The style of some of this veining can be traced over several creeks (as discussed later).

At sample site 3638 (346990mE, 5383675mN) there is a shear zone approximately 50 meters wide; exposed in the Paradise River. There is very poor out crop up the creek in which the shear is interpreted to trend, though there is some pug/clay and a very fine grained rock, similar to the unit just north of LSDDH1.

From interpretation of the topography and the aeromagnetic data there are numerous North to NE features, which may be related to faulting. Early last season Ron was very keen on the idea of trying to put more time in down the southern part of East Lucy Creek, where there were several features of interest to him: Good gold from panning adjacent to a boggy depression in the hill to the south east, the alignment of the creeks and the silicification ("Granitoid") to the north.

2.0 ADITS and LUCY SPUR HYDRAULIC WORKINGS

2.1 The adits area.

The adits area (Figure 1) is the hill immediately west of LSDDH1 and LSDDH2. Previous channel sampling in the lower and upper adits is described in the Annual Report for EL43/94 to 4.1.98. as shown in Figure 1.

The upper (347021 mE, 5384665 mN) and lower (347040 mE, 5384667 mN) adits were resampled as shown in Figure and Figure 3. A clearer idea of what was mined 100 years ago, was gained. Drives, rises, and winzes strike along extensions of a dark brown to cream colored pug/fracture material? As well the mining terminates when out from the contact of the siliceous alteration/breccia and into the schist.

There are four main trains of thought upon the brecciation and alteration around Lucy Spur. The intrusive associated with the brecciation was only seen to the west of LSDDH1 and LSDDH2, while open-space quartz veining and alteration were seen at that location as well as further to the west and at the Hydraulic Workings.

- (1) There was a zone of fracture and brecciation.
- (2) An intrusive material entered the fracture zone, becoming the matrix to part of the breccia and transporting the clasts for an unspecified distance.

- (3) Alteration occurred in both the country rock (sericite, carbonate and/or feldspar - pale cream to pink, puggy) as well as the intrusive (quartz, sericite and minor tourmaline - commonly dark grey, greisen-like).
- (4) Late open-space veining characterised by euhedral quartz, cuts both the intrusive material and the country rock.

It was observed (by NJT) that on a regional scale, there are other small occurrences of similar granitoid. At Mt Bischoff there are small intrusives, which were rapidly altered after emplacement. These intrusives may be associated with the Meredith Granite.

The highest gold values at Lucy Spur have been obtained from fractures and cross cutting quartz veins. Brecciation and the movement of fluids over a long time, may have brought in gold as well as a minor amount of copper which is often slightly raised above background. Coarse gold would help to explain the large variations obtained in repeated analyses. This nugget effect may also require that larger samples be taken to adequately test the grade.

2.1.1 Lower adit

Sampling of the Lower adit (Figure 2) gave some significant results

Sample	Au (ppm)	As (ppm)	Comments
2934	0.57	64	sub horizontal quartz veins (\pm feldspar) with iron oxides in silica alteration
2935	0.24	106	sub vertical quartz veins
2937	2.25		white clay?/sub horizontal veins, in alteration above schist contact
2938	0.66		white clay parallel to schist contact (similar to 2937)
2940	102.4	121	cream/brown-red pug in fracture, within schist
2942	1.85		quartz veins with iron oxide in vugs, adjacent to brown banded pug
2943	0.49	63	vuggy quartz with iron oxides from excavation in ceiling

2.1.2 Upper adit

Sampling the upper adit (Figure 3A,3B) was disappointing with respect to the channel sample taken along the drive to the main stope as these, had negligible gold values - see Annual Report to 4.1.98. The reason for this may be due to the weathered surface, small sample size or the lack of gold. Rock chip results taken in the stope, showed quite a variation within a meter of sampling different material. 2965 is a weathered micaceous schist with quartz veins, containing negligible gold. Adjacent to 2965 is rock chip 2966 which is a part of the dark grey siliceous breccia and has 0.74 ppm Au. Rock chip 2967 is from a 50 cm wide portion of schist with abundant quartz veins and orange pug material; it gave 1.51 ppm Au.

2.1.3 Top adit

The top adit (346994 mE, 5384675 mN - Figure 1) doesn't have any extensive grey siliceous alteration/brecciation, although there are common quartz veins in a brecciated schist. There is such a blend between the few areas which have the grey siliceous material, to the brecciated schist with common quartz veins, that they appear very similar in places. There are some spectacular quartz growths, with crystals up to 10 centimeters long at the end of the adit. This would seem to indicate that there was a steady tensional process for a long period of time?

In some of the brecciated schist outside the top adit there was an unidentified black mineral which was partially platy. It was initially thought that this black mineral was a near surface feature in the weathering profile or charcoal. But it has been found within samples of schist, indicating that it formed at the same time or is perhaps related to the brecciation or alteration, such as tourmaline?

2.1.4 Open stope

The stope (347007 mE, 5384670 mN - Figure 1) measures 1.1m x 2.2m and drops down approximately 12 meters, where there are several drives heading off (partially water filled). Only the top 6 meters can be accessed, due to partial blockages (not quite stable). The stope is near vertical, with the long axis at 170 degrees, this follows a small fracture in a schist with common quartz veins. Samples taken on the fracture which the stope follows, vary significantly in gold. 3602 was taken on the north side, while 3603 on the south; and their gold values are 0.02 and 0.11 ppm gold respectively.

2.1.5 Core

The core from LSDDH1 and LSDDH2 was briefly examined. A zone of fracturing, alteration and veining was seen in LSDDH1, but is not as obvious in LSDDH2. The interval of interest went from 39.5m to 85.3m; just below a finely textured, massive rock (See core log). One of the interesting features about some of the quartz was that it crumbled to microcrystalline particles, similar to the silica flour around Brookside.

2.1.6 Nearby soil sampling

Soil sampling a, b and c-horizons along the ridge top track helped to define a zone of brecciation and alteration. The southern samples shown (3451-3454) are at the bottom of a slope and the sample 3485 is at the top. This inferred zone was not initially obvious, with some pug and clay material and the occasional euhedral quartz crystal. The ground up auger material was very similar looking to samples in other areas with the exception that the material was less micaceous. The analysis of the c-horizon samples did not show a distinct chemical difference between the brecciated zone and the surrounding micaceous schist; although it picked up several anomalous gold values.

Compilation of data (Figure 1.) indicates that the zone of brecciation and alteration extends south of 3455 to near 3454. Close-spaced soil samples (taken at 5m intervals) may have to

be extended over this area, to see if any gold is associated with the southern boundary of the zone.

2.2 Hill west of the adits area.

On the hill 200m west of the adits there are a pit, a shallow open stope and some trenching. These workings expose quartz veining and siliceous crystalline alteration. There was some coarse disseminated pyrite in some of the quartz, taken out of the pit. From the shallow stope a 20 cm wide quartz vein went 0.15 ppm Au, but the silica alteration adjacent to it was near barren.

There is a correlation of vein styles between samples in this area (2968 at 346760mE, 5384725mN) with well formed quartz crystals, hematite, and a light brown green mineral; and a sample (2280 at 346550mE, 5387565mN) taken to the NW at the end of last season. In the East Lucy Creek directly to the south, was a sample of float (3635) of open spaced multiply fracture quartz breccia. In a uncut creek directly to the south of these samples was more vein quartz material similar to 2968. There is a problem with the sampling of this interesting looking vuggy quartz vein material, in outcrop (adits) and float. It is that what ever was in the cavities (carbonates and sulphides?), has been weathered out.

2.3 Lucy Spur Hydraulic workings

The layout of the old hydraulic workings (Figure 4) was uncovered and worked out by Ron and Rod. An adit (347005mE, 5385446mN) in the east of the workings was thought by Ron and Rod to be an exploration hole, trying to source the gold; after the area was hydraulically worked.

The adit (Figure 5) and exposure in the sluice race (Figure 6) show that there are narrow bands of dark brown siliceous alteration (<3m) associated with fracturing?

In the adit a 2 meter channel sample (2993) went 6.27 ppm Au (re-assay went 2.36 ppm Au). This section of channeling contained altered rocks with euhedral quartz in veins. This altered rock was contacted unevenly to the schist in the SW as well as being cut by an E-W fracture.

The only sample of major significance (2999) in the sluice race was a hard orange/brown brecciated schist with quartz growths, measuring 1 ppm Au. This schist is adjacent to a dark brown silica altered/brecciated rock, which only measured 0.05 ppm Au.

In locations around the workings both the schist and siliceous alteration are dark brown, as a possible result of weathering and discolouration by organic material in groundwater.

BCL samples taken in the area, from underlying portion of siliceous alteration (2970) to Tertiary Gravel (2972); show that although some of the basement does contain gold, there is a real possibility of contamination from the overlying gravel's if they are present.

Sample	Au (ppb)	Cu (ppm)	Ag (ppm)	Comments
2972	38.4	0.24	<0.01	20 cm of Tertiary gravel above weathered basement
2971	1.4	0.33	0.03	weathered silicified material (schist)
2970	3.82	0.68	0.06	fresh coarse-silica alteration in schist

3.0 Soil sampling at Lucy Spur

Soil samples were taken throughout the area of Lucy Spur, using a hand auger, from November 97 to April 98. A 1.5-2kg sample of the C-horizon material was taken, for assay by bulk cyanide leach. There was a focused progression, from where samples were taken along access tracks, to newly cut ridge and spur lines and finally to the 100 x 25m grid over the old Lucy Spur workings and adjacent areas.

Sampling was generally straight forward, with the exception of thick gravel cover and boggy areas. Sampling of the schist under Tertiary Gravels was avoided, to minimise the possibility of contamination (as shown in section 2.3). The areas of Tertiary Gravel could be usually be identified, before a hole was started, by: the tell tail sign of rounded quartz on the surface, poor vegetation growth (spaced out banksia trees).

The soil map presented with this report, was produced from field maps and specimens of auger samples. The specimens were classified upon simple geological differences as shown in Table 1.

Table 3.1 - key to soil map.

Rock	Description
Schist	Most commonly weathered brown micaceous schist.
Orange-brown clay	Dominantly associated with amphibolite, and less with iron rich schists.
Silica alteration	Silica alteration, in the hills west of LSDDH1 and LSDDH2 and at the Hydraulic workings. Coarse euhedral quartz.
Tertiary gravel	Rounded quartz from sand to cobbles. There are some pods of silicious conglomerate in part.
Residual gravel	Angular vein quartz from schist and reefs; as well as material derived from down slope movement.
Vein quartz	Most commonly white buck quartz. There are minor samples with euhedral crystals and cavities.
Amphibolite	Massive rock with poorly defined foliation, being in part magnetite bearing.

Areas have been identified from similarities in the soil samples. The most common sort of patchy areas are those defined by vein(?) quartz, although units of similar geology and

zones of alteration have been interpreted. There is a good comparison between the geology which was mapped out along the creeks and the auger soils samples. The soil map gives a broader coverage than the geology, which is controlled by patchy weathered outcrop.

3.1 Areas of interest

In the eastern part of the Lucy Spur prospect, there is a northerly trending unit of quartz schist, which is interpreted to strike over several kilometers at approximately 347500mE. It was disappointing that, where this trend is interpreted to cross Lucy Creek, there was micaceous schist mapped in. In the creek to the south of Lucy Creek a quartz schist was identified in the creek where the soil trend crosses.

There are notably a lot more orange-brown clays in the western side of the map. There is a good correlation between the clays and the mafic units (amphibolites) defined while mapping the creeks.

There are seven notable features on the grid, over the old Lucy Spur workings.

- 1) A fine massive pyritic unit in the south west. This is thought to be a narrow unit (<25m), and has only been seen at the edge of the grid between 2S and 0N.
- 2) A 25-50m wide band of alteration (feldspathic?) extends from the south west corner of the grid in a NNE direction towards the area of the adits. This is typically a very fine textured unit, and in part weakly micaceous, as well as being pale in color. Other samples on the map which have a similar texture, but which weren't detailed include 4400, 4601, 4396, 4353, 4345, 4346, 4305, 4304, 4461, 4464 and 4465.
- 3) In the south east corner of the grid there is an area of orange-brown clays, (similar to soils derived from amphibolites). These clays extend north, butting against feature 4 at the adits. The clays extend from 3S to 4N and are as wide as 200m on the 2N line.
- 4) Pod of massive fine grey brown rock, which forms a crumbly clay. This surrounds the area of the adits, but also includes features like the brecciation in the area.
- 5) The only occurrences of the alteration and granitoid are in the area where features 2, 3 and 4 converge.
- 6) Tertiary gravels dominate the central part of the grid.
- 7) In the central part of the north end of the grid there is an area of massive fine rock and blue colored clay.

3.2 Future work

To be of greater use the database requires more information, such as simple designators for soil types and assay data. This may prove to be more time consuming and of not as much use as the hard copy map which has just been produced.

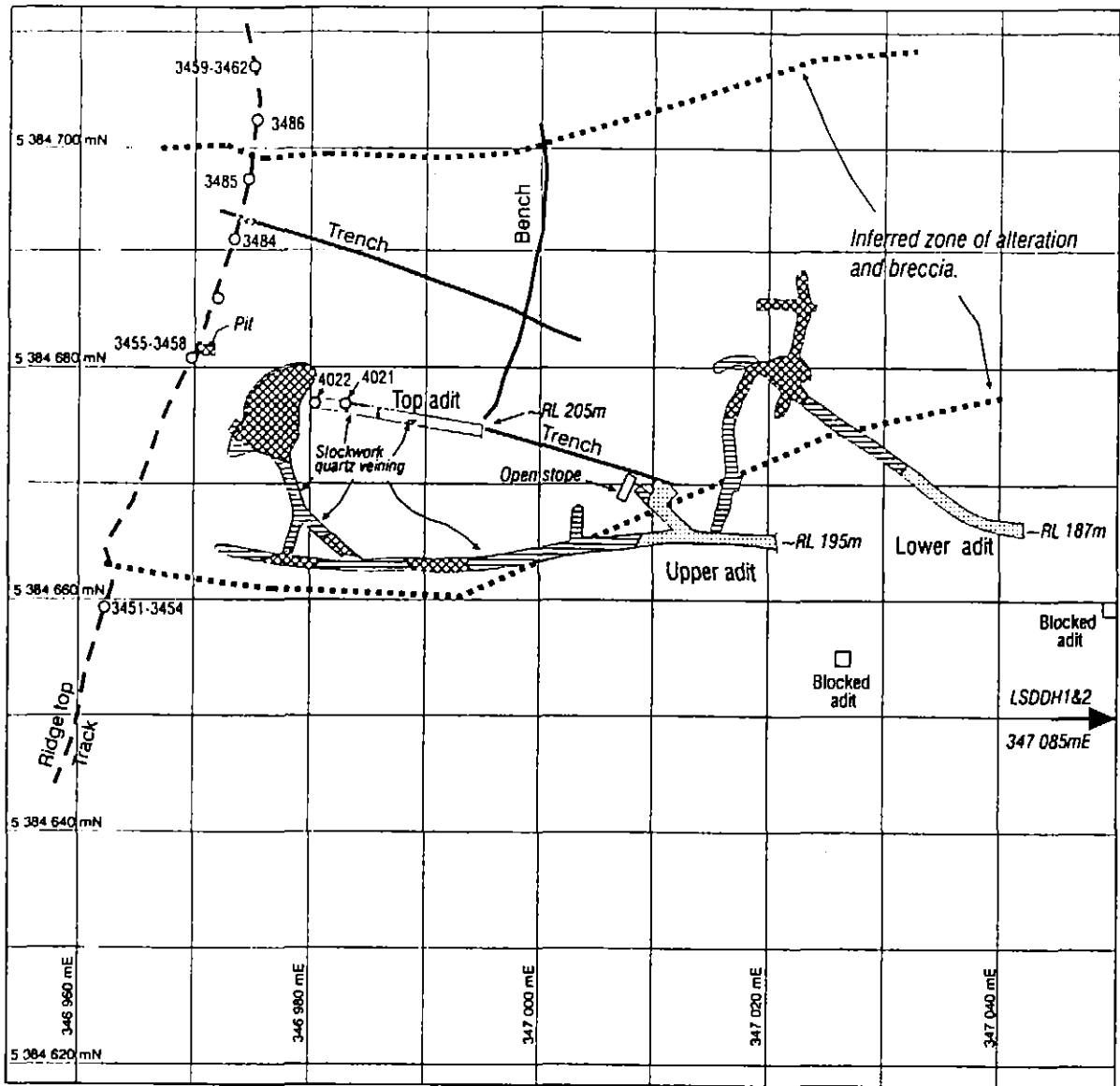
There are a few modifications which need to be made on the base map. A new base map needs to be produced, at least with all the sample locations marked on it. From a new base map, geology and geochemistry maps may be rapidly produced and replicated.

4.0 Rock Sample Index

Eastings	Northings	Sample	Type	Prospect	area	Note
347410	5387080	2773	Rock chip	Lucy Spur		weathered schist from bottom of water race (NJY sample)
347235	5386940	2774	Rock chip	Lucy Spur		repeat of G2275 (NJY sample)
347235	5386940	2775	Rock chip	Lucy Spur		quartz mica schist 2m from G2275 (NJY sample)
347260	5386985	2778	Rock chip	Lucy Spur		fine weathered mica-quartz schist (NJY sample)
347260	5387005	2777	Rock chip	Lucy Spur		as for G2274 (NJY sample)
347265	5387135	2778	Rock chip	Lucy Spur		as for G2773 (NJY sample)
346978	5384676	2901	Rock chip	Lucy Spur	upper adit	from slope off upper adit at Lucy spur (NJY sample)
347025	5384665	2902	Rock chip	Lucy Spur	upper adit	outside portal of upper adit at Lucy spur (NJY sample)
347415	5387000	2903	Rock chip	Lucy Spur		albite chlorite mica schist
347280	5386860	2904	Rock chip	Lucy Spur		quartz rich schist
437220	5386860	2905	Rock chip	Lucy Spur		quartz mica schist with iron oxides
347200	5386845	2906	Rock chip	Lucy Spur		limonitic schist
347000	5386685	2907	Rock chip	Lucy Spur		deformed cross cutting quartz vein
346975	5386680	2908	Rock chip	Lucy Spur		micaceous quartz schist with limonite
346915	5386880	2909	Rock chip	Lucy Spur		iron oxide concretions
347130	5386715	2910	Rock chip	Lucy Spur		limonitic quartz chlorite mica schist
347270	5386550	2911	Rock chip	Lucy Spur		quartz hematite feldspar boudins? in schist
347365	5386470	2912	Rock chip	Lucy Spur		hard schist with cross cutting quartz veins
347390	5386460	2913	Rock chip	Lucy Spur		quartz feldspar & minor hem. In mica schist
347730	5386370	2914	Rock chip	Lucy Spur		talc quartz chlorite mica schist
347200	5386840	2915	Rock chip	Lucy Spur		blocky micaceous quartz schist
347790	5386460	2916	Rock chip	Lucy Spur		banded quartz schist with hematite and chlorite
346895	5385990	2917	Rock chip	Lucy Spur		weathered schist with iron oxides
347205	5385525	2918	Rock chip	Lucy Spur		feldspar/altered float with minor chlorite
346890	5385875	2919	Rock chip	Lucy Spur		quartz mica schist with dissemin. pyrite
346460	5386020	2920	Rock chip	Lucy Spur		black to orange weathered schist
346385	5386430	2921	Rock chip	Lucy Spur		chlorite-albite schist & dissemin. Pyrite
346385	5386450	2922	Rock chip	Lucy Spur		mica, chlorite, hornfels
346390	5386480	2923	Rock chip	Lucy Spur		pyritic chlorite albite schist (amphibolite?)
346410	5386575	2924	Rock chip	Lucy Spur		amphibolite with minor pyrite
346310	5385835	2925	Rock chip	Lucy Spur		limonitic mica schist
345320	5386190	2926	Rock chip	Lucy Spur		chlorite quartz schist with dissemin. Pyrite
345280	5386130	2927	Rock chip	Lucy Spur		amphibolite with pyrite and magnetite
345480	5384670	2928	Rock chip	Lucy Spur		black weathered mica schist
345665	5384500	2929	Rock chip	Lucy Spur		magnetic schist/amphibolite
		2930	Rock chip	Lucy Spur	lower adit	soft brown pug in fracture
		2931	Rock chip	Lucy Spur	lower adit	viscous dark brown oxide? in vein
		2932	Rock chip	Lucy Spur	lower adit	sub-horizontal quartz vein
		2933	Rock chip	Lucy Spur	lower adit	quartz veins in schist above intrusive contact
		2934	Rock chip	Lucy Spur	lower adit	sub-horizontal quartz vein with feldspar
		2935	Rock chip	Lucy Spur	lower adit	sub-vertical quartz veins
		2936	Rock chip	Lucy Spur	lower adit	soft cream feldspar? Vein with black selvages
		2937	Rock chip	Lucy Spur	lower adit	white clay/subhorizontal veins.
		2938	Rock chip	Lucy Spur	lower adit	band of white pug and oxides
		2939	Rock chip	Lucy Spur	lower adit	dark brown soft lens
		2940	Rock chip	Lucy Spur	lower adit	cream to brown red pug in fracture in schist
		2941	Rock chip	Lucy Spur	lower adit	25cm dark brown lens
		2942	Rock chip	Lucy Spur	lower adit	quartz veins and minor oxides
		2943	Rock chip	Lucy Spur	lower adit	quartz and oxides in vug in granite
		2944	Rock chip	Lucy Spur	lower adit	heavy, black tourmaline clots?
		2945	Rock chip	Lucy Spur	upper adit	brown pug lens
		2946	Rock chip	Lucy Spur	upper adit	dark brown schist & abundant quartz
		2947	Rock chip	Lucy Spur	upper adit	subhorizontal quartz vein
		2948	Rock chip	Lucy Spur	upper adit	subhorizontal quartz vein
		2949	Rock chip	Lucy Spur	upper adit	subhorizontal quartz veins over 1m
		2950	Rock chip	Lucy Spur	upper adit	quartz veins in schist above intrusive contact
		2951	Rock chip	Lucy Spur	upper adit	sub vertical quartz veins
		2952	Rock chip	Lucy Spur	upper adit	soft, bright orange, altered schist
		2953	Rock chip	Lucy Spur	upper adit	sheared intrusive? With stockwork of clay veinlets
		2954	Channel	Lucy Spur	upper adit	0-2m dark grey silicious intrusive
		2955	Channel	Lucy Spur	upper adit	2-4m altered, brecciated intrusive
		2956	Channel	Lucy Spur	upper adit	4-6m altered intrusive with stockwork of clay veinlets
		2957	Channel	Lucy Spur	upper adit	6-9m weathered schist
		2958	Channel	Lucy Spur	upper adit	9-11m dark gray silicious intrusive
		2959	Channel	Lucy Spur	upper adit	12.5-15.5m pale altered intrusive
		2960	Channel	Lucy Spur	upper adit	15.5-17.5m grey intrusive breccia
		2961	Channel	Lucy Spur	upper adit	17.5-19.5m grey intrusive breccia

Easting	North	Sample	Type	Prospect	area	Note
		2962	Channel	Lucy Spur	upper adit	19.5-21.3m grey intrusive breccia
		2963	Channel	Lucy Spur	upper adit	21.3-23.3m schist
		2964	Channel	Lucy Spur	upper adit	23.3-25.3m schist
		2965	Rock chip	Lucy Spur	upper adit	schist with minor quartz veins
		2966	Rock chip	Lucy Spur	upper adit	grey intrusive breccia
		2967	Rock chip	Lucy Spur	upper adit	schist with quartz and feldspar veins
346750	5384725	2968	Rock chip	Lucy Spur		quartz vein with green brown portions
346810	5384680	2969	Rock chip	Lucy Spur		quartz with trace of pyrite + yellow min?
346955	5385480	2970	BCL	Lucy Spur	workings	dark brown crystalline silicious alteration
346955	5385480	2971	BCL	Lucy Spur	workings	50cm of weathered intrusive? & euhedral quartz
346955	5385480	2972	BCL	Lucy Spur	workings	20cm of tertiary above 2971
346945	5385500	2973	Channel	Lucy Spur	workings	weathered soft schist
346945	5385500	2978	Channel	Lucy Spur	workings	dark brown, fine, hard schist
346945	5385500	2977	Channel	Lucy Spur	workings	weathered euhedral silica alteration
346955	5385485	2980	Rock chip	Lucy Spur		silicified foliated rock with quartz veining
347200	5385105	2981	Rock chip	Lucy Spur		blocky quartz schist with ghost pyrite shapes
347280	5385170	2982	Rock chip	Lucy Spur		cross cutting 30cm wide quartz vein
348100	5384810	2983	Rock chip	Lucy Spur		silicified portion of albite, chl, mica schist
347800	5384205	2984	Rock chip	Lucy Spur		finely laminated, partly silicified? Schist
347560	5383920	2985	Rock chip	Lucy Spur		silicified rock with few felsic patches
347560	5383895	2986	Rock chip	Lucy Spur		felsic vein oblique to mica schist
347485	5383745	2987	Rock chip	Lucy Spur		silicified rock with quartz veins
347445	5383750	2988	Rock chip	Lucy Spur		felsic unit in schist between amphibolites
		2989	Rock chip	Lucy Spur	workings adit	15cm banded silicious alteration at contact
347004	5385445	2990	Channel	Lucy Spur	workings adit	0-2m schist & minor lens of quartz alteration
		2991	Channel	Lucy Spur	workings adit	2-4m fine micaceous schist
		2992	Channel	Lucy Spur	workings adit	4-6m euhedral quartz alteration
		2993	Channel	Lucy Spur	workings adit	6-8m silica alteration and vein quartz
		2994	Channel	Lucy Spur	workings adit	8-10m altered schist
		2995	Channel	Lucy Spur	workings adit	10-12m schist with minor alteration
		2996	Channel	Lucy Spur	workings sluice	0-1.8m soft weathered schist
		2997	Channel	Lucy Spur	workings sluice	1.8-4m crystalline silicious alteration
		2998	Channel	Lucy Spur	workings sluice	4-5.5m crystalline silicious alteration
		2999	Channel	Lucy Spur	workings sluice	5.5-8m brecciated schist & euhedral quartz veins
		3000	Channel	Lucy Spur	workings sluice	8-10m schist with minor silica alteration
347010	5384675	3602	Rock chip	Lucy Spur		on the south side of the slope from 15cm wide fracture
347010	5384675	3603	Rock chip	Lucy Spur		on the north side of the slope from 15cm wide fracture
347010	5384675	3604	Rock chip	Lucy Spur		over west face of slope in quartz veined schist
346795	5384665	3605	Rock chip	Lucy Spur		15-25cm wide quartz vein, with common limonite in hanging wall of fault
346795	5384665	3607	Rock chip	Lucy Spur		coarse grey silica altered? Iron stained schist, taken just below 3605
346790	5384665	3608	Rock chip	Lucy Spur		fine textured grey rock with dissem. Fe-oxide and quartz veining
346780	5384870	3609	Rock chip	Lucy Spur		Fe-oxide stained coarse silica alteration in trench west of 3608
349500	5388850	3610	Rock chip	Rocky River		chips taken from over 3m of qtz-carbonated unit with Fe-oxides on surface and sulphides (Aspy, Cpy?)
349500	5388885	3611	Rock chip	Rocky River		Amphibolite with bands of sulphide (Py, Cpy?)
349515	5388915	3612	Rock chip	Rocky River	adit on Rocky	amphibolite with quartz (silicified?) and dissem. Sulphide
348975	5392350	3613	Rock chip	Rocky River		magnetite boulder float in creek, one of several.
348940	5391880	3614	Rock chip	Rocky River		pale grey schist with abundant albite and minor Fe-oxide
348940	5391725	3615	Rock chip	Rocky River		limonitic, fine pyritic epidote and silica altered? Float from workings
349450	5392100	3616	Rock chip	Rocky River		Silicious dark grey resilient folded unit in creek bed.
349350	5392175	3617	Rock chip	Rocky River		subrounded hematite boulder and quartz
349225	5392425	3618	Rock chip	Rocky River		Fe-oxide (Mn-oxide?) and qtz boulder (1m)
349025	5391050	3619	Rock chip	Rocky River		hornfels? Hard and fine with dissem Py
349025	5391051	3620	Rock chip	Rocky River		magnetite and hematite
349000	5391050	3621	Rock chip	Rocky River		magnetite and hematite and minor epidote with trace of schistose texture
349000	5391051	3622	Rock chip	Rocky River		silicified rock with minor Fe-oxides; float
348650	5391740	3623	Rock chip	Rocky River		strongly weathered orange/brown rock (felsic?) with fractures; float
348660	5391825	3624	Rock chip	Rocky River		felsic alteration?, pale to mottled texture
348675	5391850	3625	Rock chip	Rocky River		weathered felsic rock/alteration?
346660	5384150	3626	Rock chip	Lucy Spur		grey fine rock with minor qtz veins and pyrite (bands and dissem); float
347115	5384160	3627	Rock chip	Lucy Spur		qtz rich rock/altered? With relic feldspar, cut by micaceous veinlets; float/subcrop
346990	5383675	3628	Rock chip	Lucy Spur		grey green rock, massive, in part silicious with felsic? Bands/mottled
346975	5383685	3629	Rock chip	Lucy Spur		qtz boulder with Fe-oxides in squares and rectangles (<1cm)
346920	5383510	3630	Rock chip	Lucy Spur		weakly micaceous silicious schist with dissem pyrite
346665	5383110	3631	Rock chip	Lucy Spur		sample taken over 10m of qtz schist, cut by qtz veinlets and common Fe-oxides
346620	5383490	3632	Rock chip	Lucy Spur		qtz float with remnant schist-weathered brown mineral?
346620	5383665	3633	Rock chip	Lucy Spur		Fe-oxide with hard replaced schist, subcrop/boulders
346620	5383740	3634	Rock chip	Lucy Spur		qtz with vugs and orange brown mineral (hard and weathering soft)
346745	5384545	3635	Rock chip	Lucy Spur		float of qtz breccia with vugs, chalcedony and euhedral qtz growths

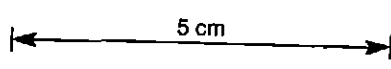
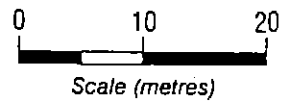
Easting	Northin	Sample	Type	Prospect	area	Note
346860	5384630	3638	Rock chip	Lucy Spur		weathered/altere? Qtz schist with deformed qtz veins
347180	5384655	3637	Rock chip	Lucy Spur		grey green fine, weathered massive, layered/banded rock below LSDOH1
346370	5382970	3638	Rock chip	Lucy Spur		large (1x1.5m) qtz boulder with schist inclusions and Fe-oxides?
346675	5385250	3639	Rock chip	Lucy Spur		micaceous greenschist on soil grid 9N 50m east from west end
347050	5385150	3640	Rock chip	Lucy Spur		micaceous qtz schist at junction of 8N and the NS base line
		3641	Channel	Lucy Spur	workings adit	4-6m, dark brown crystalline alteration and qtz veins
		3642	Channel	Lucy Spur	workings adit	6-8m, dark brown crystalline alteration and qtz veins
		3643	Channel	Lucy Spur	workings adit	8-10m, dark brown crystalline alteration and qtz veins
		3644	Rock chip	Lucy Spur	workings adit	dark brown alteration at end of hydraulic workings adit, north side of roof
		3645	Rock chip	Lucy Spur	workings adit	dark brown alteration at end of hydraulic workings adit, south side of roof
346975	5385460	3646	Rock chip	Lucy Spur		weathered dark brown schist, 5m north of 11N line.
351010	5410873	3647	Rock chip	Specimen Ck		boulder of quartz with minor hematite
351225	5410875	3648	Rock chip	Specimen Ck		subcrop of massive fine rock, carbonaceous phyllite?
351325	5410925	3649	Rock chip	Specimen Ck		2m boulder of quartz iron oxide breccia

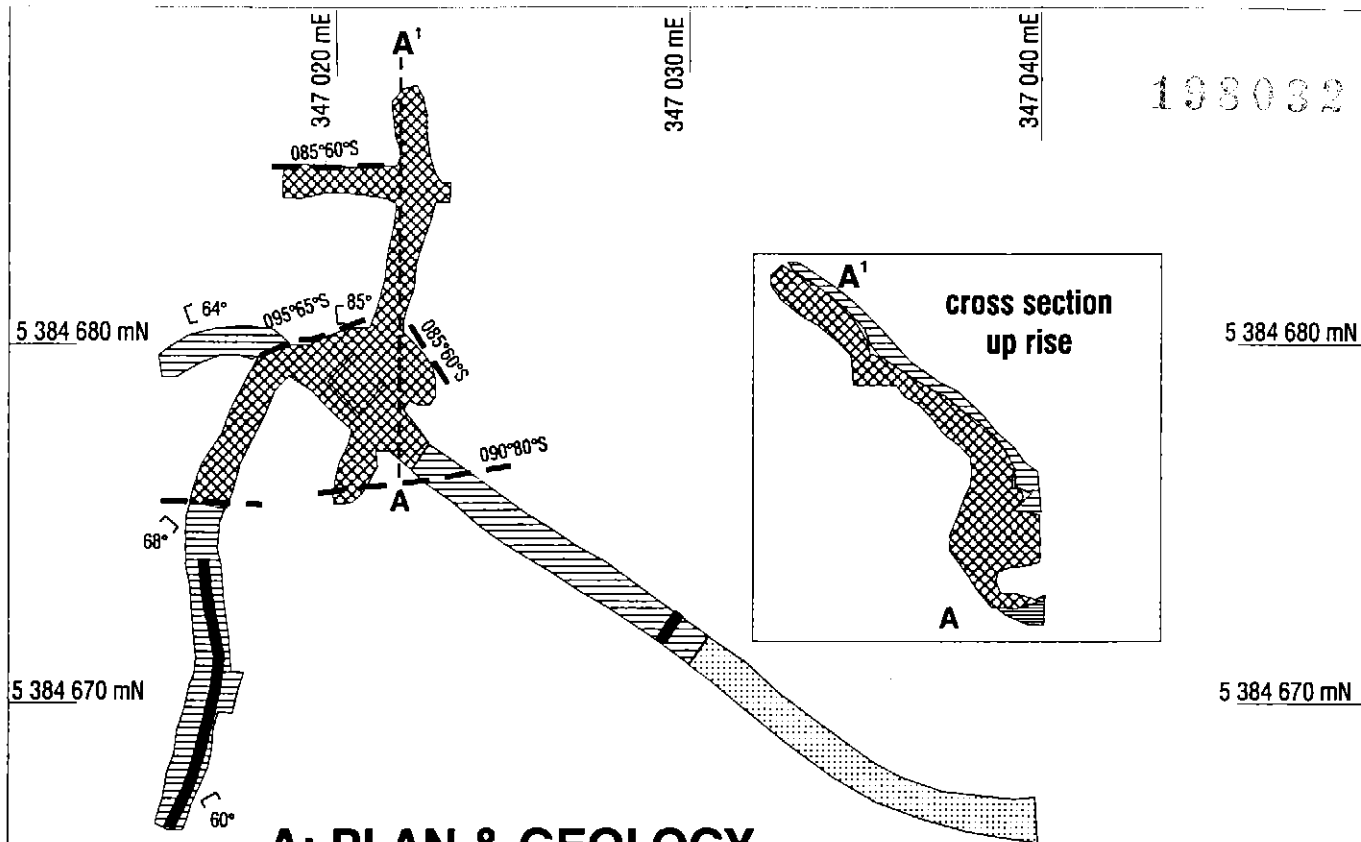


LEGEND

- Breccia- dark grey, altered, igneous matrix. Schist, minor mafic and altered inclusions. Common silica replacement and minor euhedral quartz growths. Common coarse muscovite and patchy iron hydroxides.
- Micaceous quartz schist- Light brown to cream, altered and weathered.
- Alteration? Possibly dominantly after schist, which has been weathered.
- Homogenous soft weathered material, after schist.
- Dark brown, soft material, affected by ground water.- in fracture zones?
- Fracture orientation
- Trenching and benching
- Cleavage
- Tracks
- Sample Location

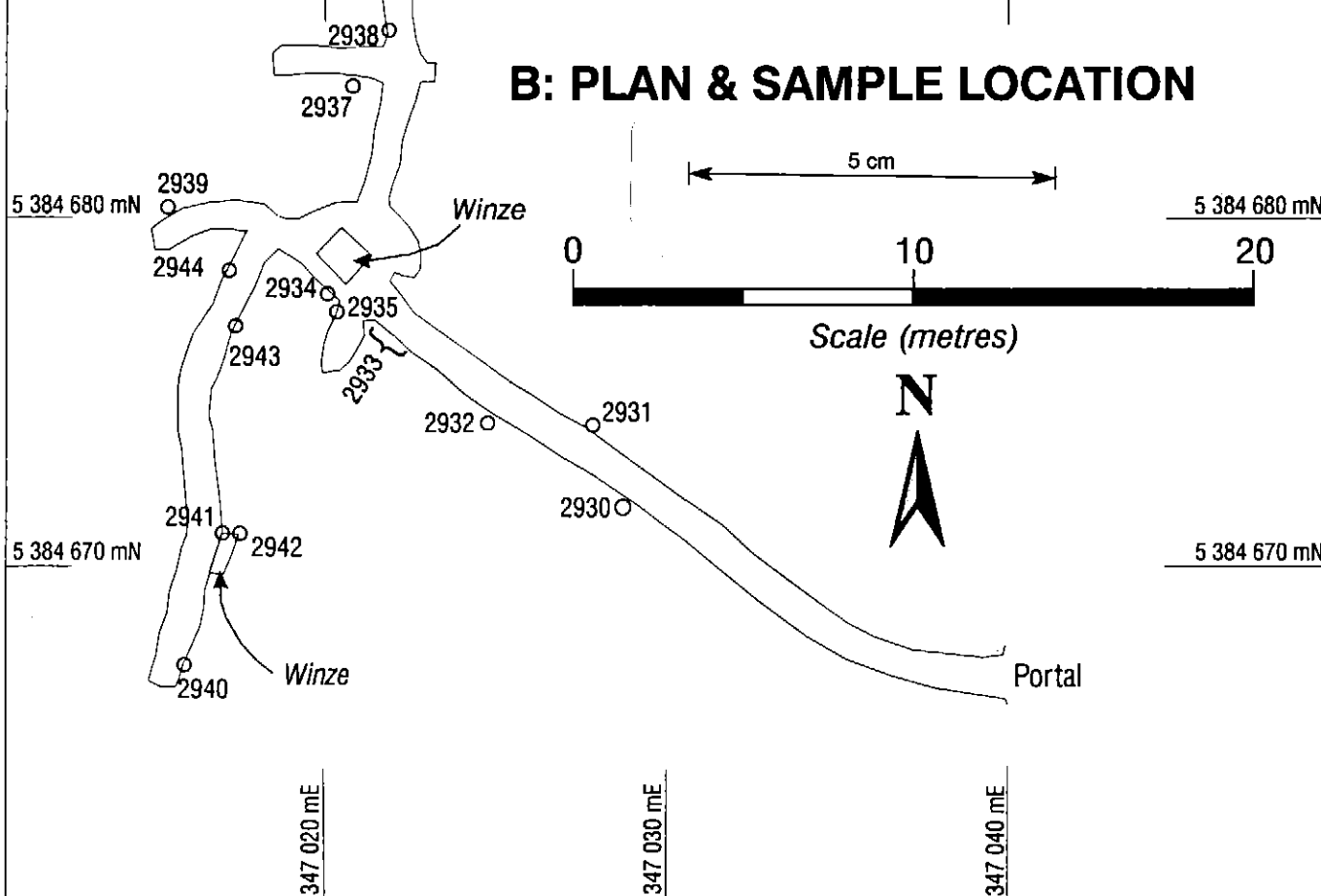
Figure 1 Adits area





A: PLAN & GEOLOGY

Figure 2: Lucy Spur Lower Adit
(Legend as for figure 1)



B: PLAN & SAMPLE LOCATION

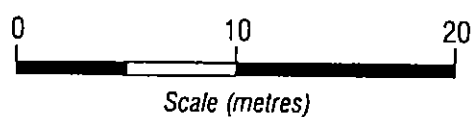
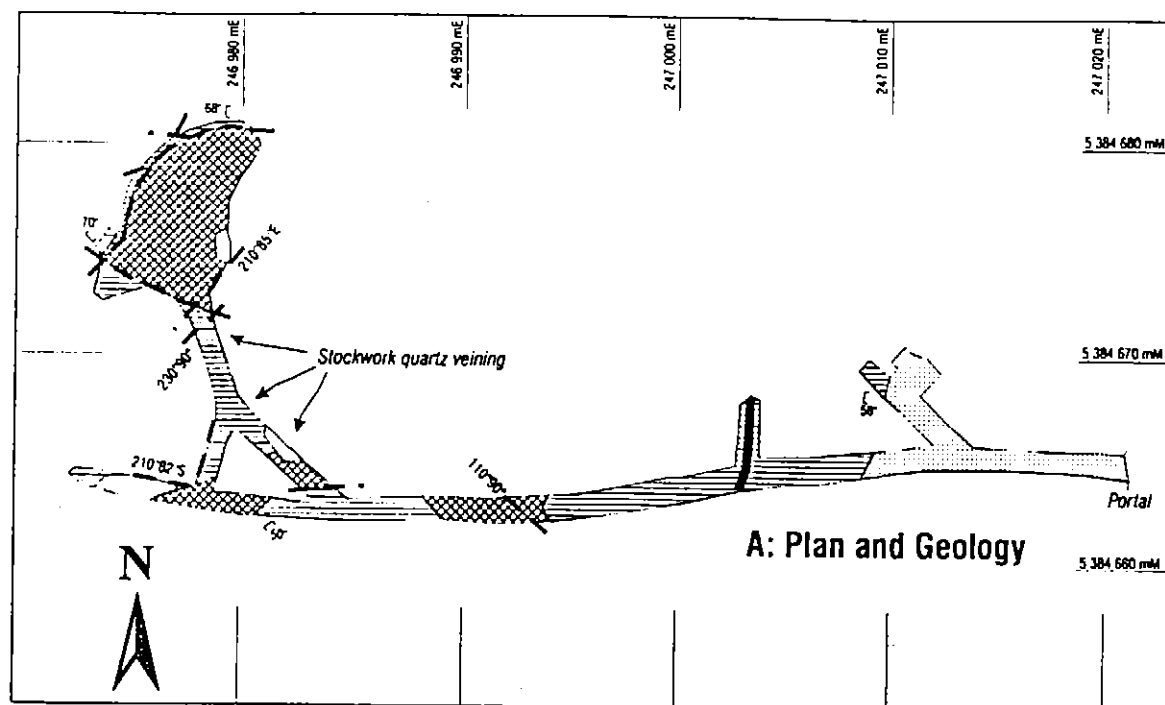


Figure 3:
LUCY SPUR Upper Adit
(Legend as for figure 1)

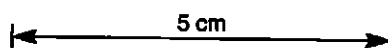
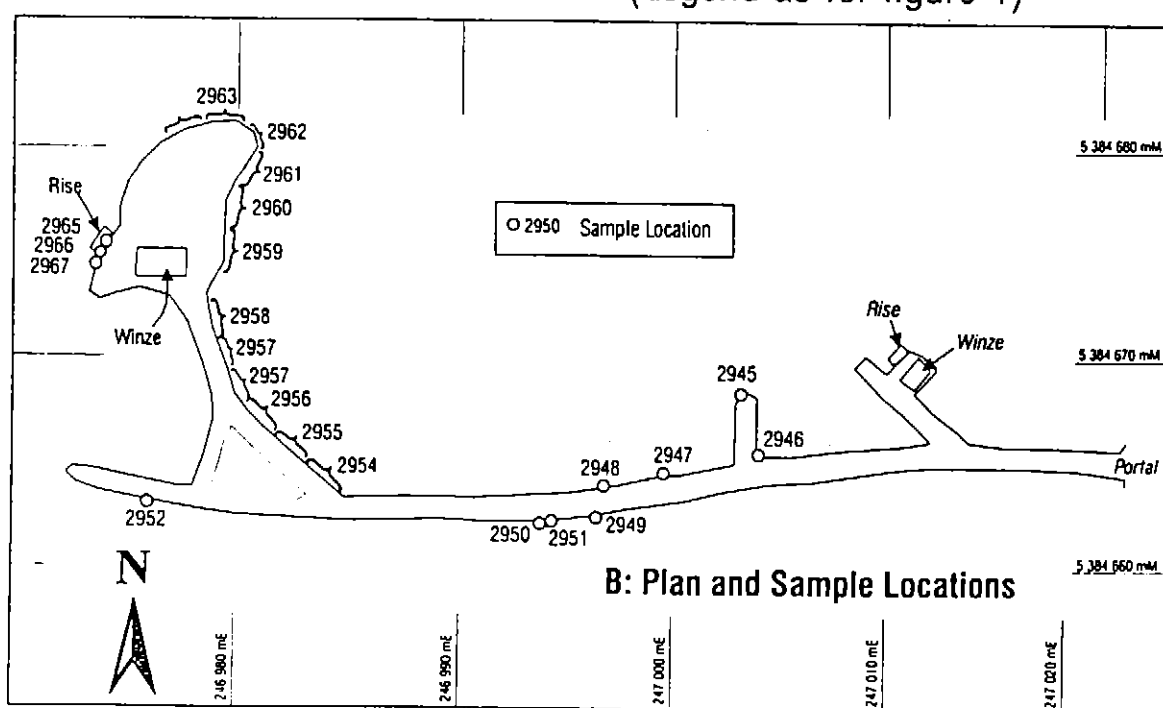
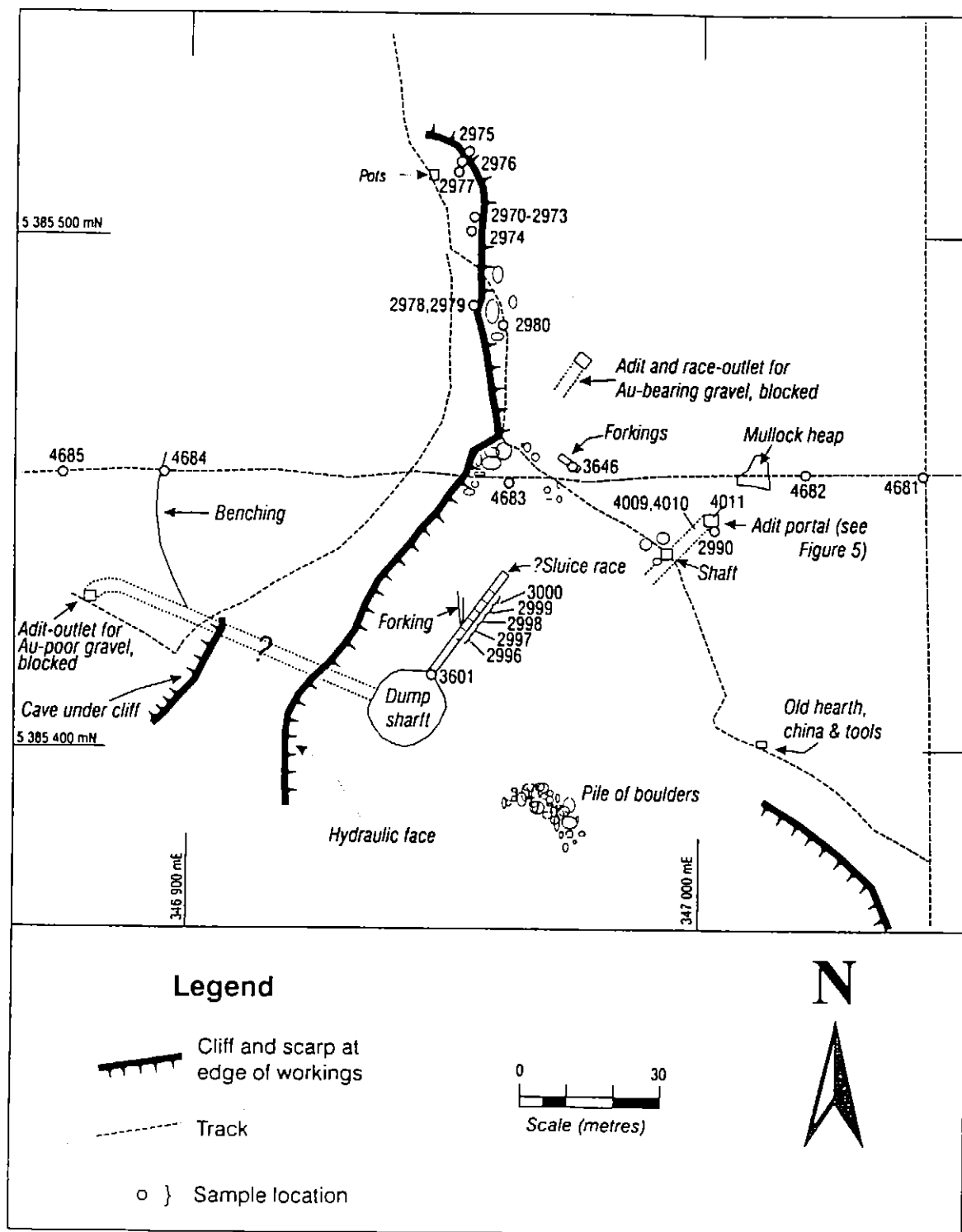
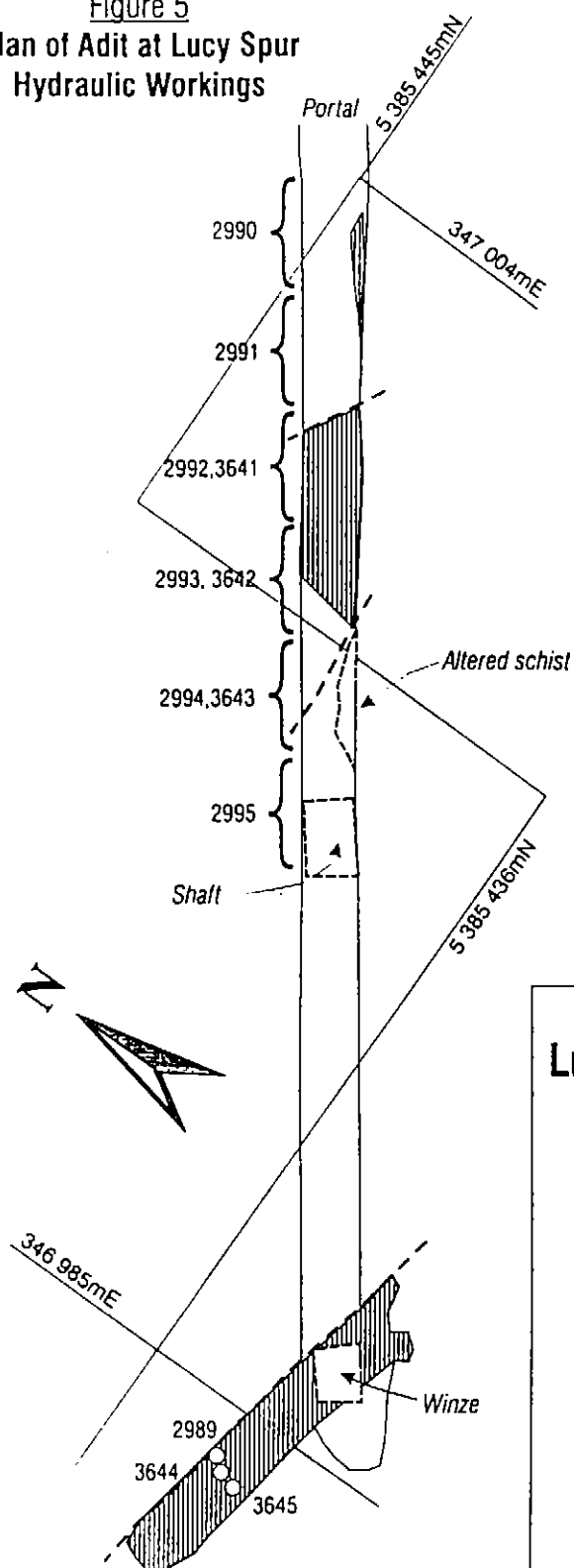


Figure 4.
LUCY SPUR Hydraulic Workings Plan



5 cm

Figure 5
Plan of Adit at Lucy Spur
Hydraulic Workings



037°

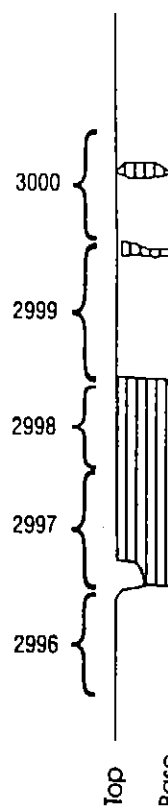


Figure 6.
Elevation of Sluice race
at Lucy Spur Hydraulic workings

Lucy Spur Hydraulic workings

- Dark brown, crystalline quartz alteration
- Weathered schist
- Fracture
- Sample location markers



5 cm

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.99

APPENDIX 2

SOIL AUGER - SAMPLE NUMBERS, AMG CO-ORDINATES, PROSPECT,
ANALYTICAL DATA.

- 2A C soil, BCL Au, Ag, Cu at Lucy Spur, Rocky River, Lefroy Ridge East.
- 2B C soil, fire assay/acid digest Au, Cu, Ag, Sb over southern adits at Lucy Spur.
- 2C A,B,C soils, BCL Au over southern adits at Lucy Spur.

Sample Types

C soil sampled by hand auger, mostly at depths of 0.1-1.2m. A, B soil shallower.

Laboratory Processing

Analabs

Dry, fine pulverize, ringmill (S032), BCL Au, Ag, Cu by 24hrs cyanide leach, solvent extraction, carbon rod (B689); Au (in 2B above) by 50gm fire assay (F614); triple acid digest (G102) with Cu, Pb, Zn by AAS (A102); volatile digest (G109) with Sb by hydride AAS (H109).

2A: C soil, BCL at Lucy Spur, Rocky River, Lefroy Ridge East									
Easting	Northing	Sample	Prospect	Au	Cu	Ag			
			Units	ppb	ppm	ppm			
			DL	0.1	0.01	0.1			
346965	5386670	2701	Lucy Spur	3.5	40.6	<0.1			
346975	5386715	2702	Lucy Spur	1.5	2.27	<0.1			
346995	5386760	2703	Lucy Spur	0.4	0.56	<0.1			
347020	5386790	2704	Lucy Spur	0.4	2.19	<0.1			
347055	5386825	2705	Lucy Spur	0.2	1.51	<0.1			
347075	5386865	2706	Lucy Spur	0.6	1.67	<0.1			
347095	5386910	2707	Lucy Spur	0.3	0.83	<0.1			
347120	5386950	2708	Lucy Spur	0.8	0.32	<0.1			
347140	5386995	2709	Lucy Spur	1.4	0.93	<0.1			
347155	5387045	2710	Lucy Spur	3	0.79	<0.1			
347135	5387095	2711	Lucy Spur	0.9	0.82	<0.1			
347215	5387870	2715	Lucy Spur	17	29.3	0.1			
347265	5387850	2716	Lucy Spur	0.2	0.5	<0.1			
347270	5387805	2717	Lucy Spur	0.3	0.3	<0.1			
347280	5387765	2718	Lucy Spur	0.8	0.56	<0.1			
347315	5387680	2720	Lucy Spur	1.5	1.36	<0.1			
347525	5387685	2721	Lucy Spur	0.3	0.3	<0.1			
347475	5387680	2722	Lucy Spur	0.1	0.18	<0.1			
347425	5387675	2723	Lucy Spur	<0.1	0.3	<0.1			
347400	5387635	2724	Lucy Spur	<0.1	0.33	<0.1			
346910	5387860	2725	Lucy Spur	0.7	2.75	<0.1			
346870	5387815	2726	Lucy Spur	1.2	28.6	<0.1			
346815	5387780	2727	Lucy Spur	0.3	1.02	<0.1			
346730	5387550	2729	Lucy Spur	0.8	1.64	<0.1			
346740	5387505	2730	Lucy Spur	0.2	0.2	<0.1			
346755	5387460	2731	Lucy Spur	0.2	2.43	<0.1			
346795	5387435	2732	Lucy Spur	0.7	<0.01	<0.1			
346960	5387950	2733	Lucy Spur	0.8	6.17	<0.1			
346990	5387995	2734	Lucy Spur	1	11.1	<0.1			
347040	5388015	2735	Lucy Spur	1.1	32.9	<0.1			
347030	5387960	2736	Lucy Spur	0.3	1.07	<0.1			
347050	5387920	2737	Lucy Spur	0.2	0.42	<0.1			
347040	5387870	2738	Lucy Spur	1.4	0.69	<0.1			
347050	5387820	2739	Lucy Spur	0.7	1.06	<0.1			
347075	5387775	2740	Lucy Spur	3.7	15.8	<0.1			
347110	5387740	2741	Lucy Spur	0.5	2.1	<0.1			
347125	5387700	2742	Lucy Spur	0.2	1.09	<0.1			
347130	5387650	2743	Lucy Spur	0.1	1.56	<0.1			
347130	5387600	2744	Lucy Spur	0.6	0.65	<0.1			
347110	5387555	2745	Lucy Spur	2.2	0.75	<0.1			
347560	5387725	2746	Lucy Spur	0.9	0.18	<0.1			
347615	5387790	2747	Lucy Spur	0.6	0.51	<0.1			
347660	5387805	2748	Lucy Spur	0.5	1.24	<0.1			
347705	5387835	2749	Lucy Spur	1.1	1.38	<0.1			
347750	5387845	2750	Lucy Spur	0.3	26.9	<0.1			
347790	5387860	2751	Lucy Spur	0.8	0.61	<0.1			
347835	5387875	2752	Lucy Spur	0.7	0.81	<0.1			
347875	5387895	2753	Lucy Spur	0.5	1	<0.1			
347920	5387910	2754	Lucy Spur	0.3	0.33	<0.1			
347960	5387935	2755	Lucy Spur	0.4	1.35	<0.1			

Easting	Northing	Sample	Prospect Units DL	Au ppb 0.1	Cu ppm 0.01	Ag ppm 0.1		
347825	5387820	2756	Lucy Spur	0.1	0.5	<0.1		
347825	5387765	2757	Lucy Spur	0.3	0.25	<0.1		
347825	5387715	2758	Lucy Spur	0.3	0.61	<0.1		
347830	5387670	2759	Lucy Spur	0.6	0.17	<0.1		
347820	5387605	2760	Lucy Spur	2.5	1.42	<0.1		
347810	5387560	2761	Lucy Spur	0.1	0.65	<0.1		
347800	5387510	2762	Lucy Spur	1	0.98	<0.1		
347795	5387410	2763	Lucy Spur	1.4	0.47	<0.1		
347790	5387365	2764	Lucy Spur	0.2	1.24	<0.1		
347785	5387315	2765	Lucy Spur	0.2	0.24	<0.1		
347760	5387280	2766	Lucy Spur	0.2	0.86	<0.1		
347730	5387235	2767	Lucy Spur	0.9	0.39	<0.1		
347715	5387195	2768	Lucy Spur	0.3	0.56	<0.1		
347735	5387150	2769	Lucy Spur	0.3	2.35	<0.1		
347760	5387100	2770	Lucy Spur	0.2	1.68	<0.1		
347780	5387060	2771	Lucy Spur	0.3	0.63	<0.1		
347420	5387050	2772	Lucy Spur	0.2	1.75	<0.1		
347695	5387245	2779	Lucy Spur	0.2	1.9	<0.1		
347640	5387270	2780	Lucy Spur	0.6	0.55	<0.1		
347600	5387300	2781	Lucy Spur	1.9	0.48	<0.1		
347565	5387335	2782	Lucy Spur	0.3	0.71	<0.1		
347195	5388115	2783	Lucy Spur	3	5.31	<0.1		
347220	5388110	2784	Lucy Spur	0.7	0.87	<0.1		
347050	5388080	2785	Lucy Spur	0.4	0.83	<0.1		
347285	5388045	2786	Lucy Spur	1.3	0.85	<0.1		
347445	5388100	2787	Lucy Spur	1.1	0.84	<0.1		
347455	5388145	2788	Lucy Spur	0.2	1	<0.1		
347575	5388230	2789	Lucy Spur	2.9	5.68	<0.1		
347605	5388190	2790	Lucy Spur	1.3	11.1	<0.1		
347645	5388150	2791	Lucy Spur	1.1	4.34	<0.1		
347720	5388115	2792	Lucy Spur	0.2	0.56	<0.1		
347760	5388100	2793	Lucy Spur	1.5	0.89	<0.1		
347790	5388065	2794	Lucy Spur	0.5	1.77	<0.1		
347800	5388025	2795	Lucy Spur	0.5	0.93	<0.1		
347850	5388010	2796	Lucy Spur	0.6	0.53	<0.1		
347900	5388000	2797	Lucy Spur	0.2	2.36	<0.1		
347385	5387075	2876	Lucy Spur	0.1	1.11	<0.1		
347360	5387075	2877	Lucy Spur	1.4	1.03	<0.1		
347335	5387075	2878	Lucy Spur	0.3	1.48	<0.1		
347310	5387075	2879	Lucy Spur	0.2	0.24	<0.1		
347280	5387075	2880	Lucy Spur	0.3	0.88	<0.1		
347255	5387075	2881	Lucy Spur	1.4	2.53	<0.1		
347235	5387075	2882	Lucy Spur	0.8	2.02	<0.1		
347210	5387075	2883	Lucy Spur	1.9	2.28	<0.1		
347190	5387075	2884	Lucy Spur	8.1	1.14	<0.1		
347165	5387075	2885	Lucy Spur	0.5	0.33	<0.1		
347140	5387075	2886	Lucy Spur	0.8	2.09	<0.1		
347120	5387075	2887	Lucy Spur	0.3	0.51	<0.1		
347095	5387075	2888	Lucy Spur	0.3	1.31	<0.1		
347070	5387075	2889	Lucy Spur	2.2	1.68	<0.1		
347050	5387075	2890	Lucy Spur	0.9	2.01	<0.1		
347025	5387075	2891	Lucy Spur	X	1.04	<0.1		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347005	5387075	2892	Lucy Spur	0.2	1.01	<0.1		
346980	5387075	2893	Lucy Spur	2.8	1.77	<0.1		
346955	5387075	2894	Lucy Spur	0.4	3.54	<0.1		
347545	5387370	3001	Lucy Spur	0.6	0.52	<0.1		
347420	5387395	3002	Lucy Spur	11	0.4	<0.1		
347740	5387235	3003	Lucy Spur	2.8	0.39	<0.1		
347780	5387225	3004	Lucy Spur	3.4	0.1	<0.1		
347835	5387225	3005	Lucy Spur	1.5	0.21	<0.1		
347885	5387240	3006	Lucy Spur	7.6	0.17	<0.1		
347925	5387260	3007	Lucy Spur	2.3	0.22	<0.1		
347970	5387300	3008	Lucy Spur	0.8	0.17	<0.1		
348030	5387330	3009	Lucy Spur	2.1	0.21	<0.1		
348010	5387055	3010	Lucy Spur	2.5	0.06	<0.1		
348015	5387130	3011	Lucy Spur	4.6	0.91	<0.1		
348015	5387180	3012	Lucy Spur	0.2	4.94	<0.1		
348020	5387225	3013	Lucy Spur	0.6	4.16	<0.1		
348035	5387275	3014	Lucy Spur	0.7	0.67	<0.1		
348040	5387325	3015	Lucy Spur	0.4	0.12	<0.1		
348045	5387375	3016	Lucy Spur	2	0.45	<0.1		
348055	5387420	3017	Lucy Spur	0.3	0.13	<0.1		
348060	5387470	3018	Lucy Spur	0.1	1.34	<0.1		
348065	5387520	3019	Lucy Spur	0.7	5.73	<0.1		
348065	5387575	3020	Lucy Spur	0.9	2.03	<0.1		
348060	5387620	3021	Lucy Spur	0.5	1.29	<0.1		
348055	5387670	3022	Lucy Spur	3.1	1.01	<0.1		
348055	5387720	3023	Lucy Spur	0.2	1.37	<0.1		
348050	5387770	3024	Lucy Spur	<0.1	149.5	<0.1		
348050	5387855	3025	Lucy Spur	0.6	0.27	<0.1		
348050	5387895	3026	Lucy Spur	13.4	0.22	<0.1		
347440	5387000	3027	Lucy Spur	0.2	0.24	<0.1		
347480	5386970	3028	Lucy Spur	0.4	0.08	<0.1		
347545	5386860	3029	Lucy Spur	0.5	0.69	<0.1		
347560	5386810	3030	Lucy Spur	0.2	0.57	<0.1		
347575	5386765	3031	Lucy Spur	0.3	0.15	<0.1		
347630	5386750	3032	Lucy Spur	0.4	5.76	<0.1		
347130	5386725	3033	Lucy Spur	0.5	0.29	<0.1		
347180	5386705	3034	Lucy Spur	0.2	0.84	<0.1		
347230	5386695	3035	Lucy Spur	0.9	5.29	<0.1		
347280	5386675	3036	Lucy Spur	0.3	0.7	<0.1		
347325	5386655	3037	Lucy Spur	0.9	1.24	<0.1		
347420	5386645	3038	Lucy Spur	0.3	0.51	<0.1		
347470	5386640	3039	Lucy Spur	1.3	0.69	<0.1		
347515	5386620	3040	Lucy Spur	0.1	0.17	<0.1		
347560	5386620	3041	Lucy Spur	1.4	0.92	<0.1		
347625	5386685	3042	Lucy Spur	0.3	0.56	<0.1		
347650	5386725	3043	Lucy Spur	1.4	0.7	<0.1		
347685	5386755	3044	Lucy Spur	<0.1	7.76	<0.1		
347950	5386985	3045	Lucy Spur	0.7	0.17	<0.1		
347950	5386965	3046	Lucy Spur	0.3	0.15	<0.1		
347960	5386900	3047	Lucy Spur	0.3	0.16	<0.1		
347975	5386855	3048	Lucy Spur	1.2	0.03	<0.1		
347980	5386810	3049	Lucy Spur	0.1	0.11	<0.1		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347945	5386795	3050	Lucy Spur	1.2	0.29	<0.1		
346900	5386710	3051	Lucy Spur	0.5	0.7	<0.1		
346875	5386755	3052	Lucy Spur	0.2	0.16	<0.1		
346860	5386805	3053	Lucy Spur	1.2	0.39	<0.1		
346830	5386845	3054	Lucy Spur	0.4	0.19	<0.1		
346795	5386870	3055	Lucy Spur	2.3	7.25	<0.1		
346760	5386905	3056	Lucy Spur	1.1	2.06	<0.1		
346720	5386935	3057	Lucy Spur	0.8	0.4	<0.1		
346695	5386975	3058	Lucy Spur	0.1	1.71	<0.1		
346780	5387025	3059	Lucy Spur	0.9	0.77	<0.1		
346675	5387065	3060	Lucy Spur	<0.1	0.98	<0.1		
346675	5387115	3061	Lucy Spur	0.9	<0.01	<0.1		
346700	5387140	3062	Lucy Spur	0.4	1.39	<0.1		
346745	5387140	3063	Lucy Spur	0.5	0.19	<0.1		
346870	5386560	3064	Lucy Spur	0.1	0.1	<0.1		
346775	5386600	3065	Lucy Spur	1.3	0.69	<0.1		
346745	5386560	3066	Lucy Spur	0.9	3.3	<0.1		
346700	5386555	3067	Lucy Spur	0.6	1.37	<0.1		
346655	5386575	3068	Lucy Spur	1.3	1.67	<0.1		
346610	5386590	3069	Lucy Spur	0.4	5.9	<0.1		
346660	5386040	3070	Lucy Spur	0.4	0.67	<0.1		
346655	5386075	3071	Lucy Spur	1.1	0.84	<0.1		
346665	5386140	3072	Lucy Spur	1.1	2.98	<0.1		
346675	5386185	3073	Lucy Spur	0.2	0.37	<0.1		
346665	5386235	3074	Lucy Spur	1	2.03	<0.1		
346645	5386275	3075	Lucy Spur	1	0.7	<0.1		
346610	5386315	3076	Lucy Spur	2.4	3.01	<0.1		
346575	5386340	3077	Lucy Spur	1.6	0.69	<0.1		
346570	5386390	3078	Lucy Spur	1.7	10.88	<0.1		
346525	5386405	3079	Lucy Spur	0.4	1.57	<0.1		
346470	5386420	3080	Lucy Spur	1.6	5.31	<0.1		
346440	5386455	3081	Lucy Spur	1.4	6.88	<0.1		
346440	5386510	3082	Lucy Spur	0.2	2.09	<0.1		
346465	5386550	3083	Lucy Spur	1.4	2.27	<0.1		
346505	5386570	3084	Lucy Spur	0.1	1.63	<0.1		
346560	5386560	3085	Lucy Spur	1.3	4.43	<0.1		
346560	5386615	3086	Lucy Spur	0.3	0.8	<0.1		
346520	5386645	3087	Lucy Spur	1.2	1.16	<0.1		
346475	5386665	3088	Lucy Spur	0.4	5.87	<0.1		
346445	5386705	3089	Lucy Spur	3.4	1.35	<0.1		
346440	5386760	3090	Lucy Spur	0.2	<0.01	<0.1		
346435	5386800	3091	Lucy Spur	1.7	2.7	<0.1		
346420	5386850	3092	Lucy Spur	0.2	0.1	<0.1		
346410	5386895	3093	Lucy Spur	0.5	1.75	<0.1		
346405	5386950	3094	Lucy Spur	0.2	<0.01	<0.1		
346430	5386990	3095	Lucy Spur	5.6	1.12	<0.1		
346465	5387020	3096	Lucy Spur	0.3	0.58	<0.1		
346515	5387060	3097	Lucy Spur	2.7	0.67	<0.1		
346560	5387030	3098	Lucy Spur	<0.1	<0.01	<0.1		
346600	5387005	3099	Lucy Spur	1	0.04	<0.1		
346655	5387015	3100	Lucy Spur	0.1	0.18	<0.1		
347025	5386680	3101	Lucy Spur	1.8	6.73	<0.1		

Eastings	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347040	5386645	3102	Lucy Spur	0.3	1.35	<0.1		
347075	5386610	3103	Lucy Spur	1.1	0.79	<0.1		
347110	5386565	3104	Lucy Spur	0.3	0.33	<0.1		
347160	5386535	3105	Lucy Spur	0.9	0.64	<0.1		
347185	5386495	3106	Lucy Spur	0.3	0.83	<0.1		
347210	5386450	3107	Lucy Spur	1	1	<0.1		
347165	5386010	3108	Lucy Spur	5.66	1.27	0.01		
347205	5386005	3109	Lucy Spur	2.02	1.18	<0.01		
347245	5386000	3110	Lucy Spur	3.81	0.47	<0.01		
347440	5386000	3111	Lucy Spur	3.43	0.96	<0.01		
347490	5386000	3112	Lucy Spur	4.5	0.48	<0.01		
347545	5386000	3113	Lucy Spur	1.14	0.68	<0.01		
347640	5386000	3114	Lucy Spur	5.46	1.05	<0.01		
347685	5386000	3115	Lucy Spur	3.64	2.12	<0.01		
347735	5386000	3116	Lucy Spur	3.13	0.24	<0.01		
347790	5385990	3117	Lucy Spur	0.79	1.31	<0.01		
347835	5386000	3118	Lucy Spur	2.3	0.25	0.01		
347880	5386000	3119	Lucy Spur	0.78	0.88	<0.01		
347925	5386010	3120	Lucy Spur	47.67	1.01	<0.01		
347965	5385985	3121	Lucy Spur	1.33	0.46	<0.01		
348010	5385970	3122	Lucy Spur	1.71	2.46	<0.01		
348050	5385970	3123	Lucy Spur	0.37	2.76	<0.01		
346890	5385900	3124	Lucy Spur	1.26	1.06	<0.01		
346895	5385945	3125	Lucy Spur	0.2	0.51	<0.01		
346900	5385995	3126	Lucy Spur	3.87	1.67	<0.01		
346900	5386040	3127	Lucy Spur	0.52	0.47	<0.01		
346895	5386090	3128	Lucy Spur	0.74	1.7	<0.01		
346770	5386040	3129	Lucy Spur	0.24	0.64	<0.01		
346805	5386070	3130	Lucy Spur	0.34	1.09	<0.01		
346855	5386080	3131	Lucy Spur	1.88	11.56	<0.01		
346900	5386145	3132	Lucy Spur	0.74	1.23	<0.01		
346930	5386185	3133	Lucy Spur	1.85	1.6	0.01		
346965	5386215	3134	Lucy Spur	0.1	0.48	<0.01		
346990	5386260	3135	Lucy Spur	0.4	0.08	<0.01		
347025	5386275	3136	Lucy Spur	1.03	0.61	<0.01		
347065	5386305	3137	Lucy Spur	1.03	0.26	<0.01		
347095	5386345	3138	Lucy Spur	0.71	0.33	<0.01		
347130	5386375	3139	Lucy Spur	0.22	0.27	<0.01		
347145	5386420	3140	Lucy Spur	0.88	0.24	<0.01		
347195	5386430	3141	Lucy Spur	0.3	0.59	<0.01		
347245	5386395	3142	Lucy Spur	0.49	0.45	<0.01		
347295	5386375	3143	Lucy Spur	0.13	0.77	<0.01		
347305	5386325	3144	Lucy Spur	0.61	0.67	<0.01		
347340	5386290	3145	Lucy Spur	0.4	1.29	<0.01		
347380	5386260	3146	Lucy Spur	0.33	0.68	<0.01		
347415	5386230	3147	Lucy Spur	0.67	1.08	<0.01		
347440	5386190	3148	Lucy Spur	0.46	0.33	<0.01		
347455	5386150	3149	Lucy Spur	0.69	0.27	<0.01		
347485	5386110	3150	Lucy Spur	0.83	0.34	<0.01		
347530	5386105	3151	Lucy Spur	3.82	0.56	<0.01		
347580	5386095	3152	Lucy Spur	0.77	0.75	<0.01		
347625	5386085	3153	Lucy Spur	4.8	88.25	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347635	5386040	3154	Lucy Spur	2.63	1.38	<0.01		
347610	5385995	3155	Lucy Spur	0.16	1	<0.01		
347580	5385965	3156	Lucy Spur	2.52	0.35	<0.01		
347540	5385915	3157	Lucy Spur	0.23	0.4	<0.01		
347450	5385890	3158	Lucy Spur	0.79	1.5	<0.01		
347410	5385860	3159	Lucy Spur	0.2	0.6	<0.01		
347360	5385850	3160	Lucy Spur	0.36	0.26	<0.01		
347315	5385820	3161	Lucy Spur	0.13	0.7	<0.01		
347265	5385820	3162	Lucy Spur	0.25	2.68	<0.01		
347215	5385815	3163	Lucy Spur	0.32	0.3	<0.01		
347170	5385825	3164	Lucy Spur	0.14	0.86	<0.01		
347150	5385870	3165	Lucy Spur	0.15	0.75	<0.01		
347115	5385905	3166	Lucy Spur	3.01	0.9	<0.01		
347070	5385895	3167	Lucy Spur	0.31	0.29	<0.01		
347025	5385875	3168	Lucy Spur	0.22	0.58	<0.01		
346980	5385855	3169	Lucy Spur	0.3	3.44	<0.01		
346930	5385855	3170	Lucy Spur	0.29	5.13	<0.01		
347125	5385020	3171	Lucy Spur	0.3	0.97	<0.01		
347075	5385030	3172	Lucy Spur	<0.05	0.81	0.02		
346420	5385940	3173	Lucy Spur	1.16	14.33	<0.01		
346385	5385985	3174	Lucy Spur	0.42	5.86	<0.01		
346370	5386035	3175	Lucy Spur	0.32	1.63	<0.01		
346340	5386075	3176	Lucy Spur	1.32	12.47	<0.01		
346310	5386110	3177	Lucy Spur	1.44	5.11	<0.01		
346290	5386160	3178	Lucy Spur	1.55	4.9	<0.01		
346240	5386160	3179	Lucy Spur	0.43	1.43	<0.01		
346190	5386160	3180	Lucy Spur	0.8	2.14	0.02		
346145	5386170	3181	Lucy Spur	0.17	0.65	<0.01		
345935	5386000	3182	Lucy Spur	6.15	146.6	0.06		
345965	5385960	3183	Lucy Spur	6.25	17.87	0.01		
345985	5385920	3184	Lucy Spur	15.36	48.75	0.02		
346000	5385875	3185	Lucy Spur	3.84	25.37	<0.01		
346040	5385845	3186	Lucy Spur	1.78	3.87	<0.01		
346085	5385830	3187	Lucy Spur	0.35	3.3	<0.01		
346115	5385990	3188	Lucy Spur	0.92	1.42	0.02		
346120	5385740	3189	Lucy Spur	0.55	1.42	<0.01		
346120	5385695	3190	Lucy Spur	0.94	1.63	<0.01		
346100	5385640	3191	Lucy Spur	0.96	1.18	<0.01		
346075	5385600	3192	Lucy Spur	1.23	1.09	<0.01		
346060	5385550	3193	Lucy Spur	0.83	2.72	<0.01		
346060	5385500	3194	Lucy Spur	0.41	4.09	<0.01		
346055	5385455	3195	Lucy Spur	0.94	7.84	0.01		
346050	5385405	3196	Lucy Spur	0.65	4.71	<0.01		
346045	5385360	3197	Lucy Spur	0.43	1.97	<0.01		
346095	5385350	3198	Lucy Spur	0.6	1.85	<0.01		
346140	5385335	3199	Lucy Spur	0.73	1.39	<0.01		
346185	5385300	3200	Lucy Spur	0.6	2.31	<0.01		
346230	5385280	3201	Lucy Spur	0.28	6.16	<0.01		
346275	5385260	3202	Lucy Spur	0.67	11.17	<0.01		
346310	5385240	3203	Lucy Spur	0.67	3.61	<0.01		
346290	5385195	3204	Lucy Spur	1.3	6.39	<0.01		
346280	5385145	3205	Lucy Spur	0.28	1.84	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346270	5385100	3206	Lucy Spur	1.14	2.11	<0.01		
346065	5385045	3207	Lucy Spur	0.21	1.38	<0.01		
346260	5385000	3208	Lucy Spur	0.26	2.24	<0.01		
346250	5384955	3209	Lucy Spur	<0.05	1.12	<0.01		
346285	5384920	3210	Lucy Spur	2.72	1.65	<0.01		
346250	5384900	3211	Lucy Spur	0.92	3.1	<0.01		
346210	5384870	3212	Lucy Spur	0.74	3.75	0.01		
346165	5384845	3213	Lucy Spur	0.76	5.4	<0.01		
346145	5384795	3214	Lucy Spur	0.28	3.92	<0.01		
346095	5384775	3215	Lucy Spur	0.11	2.94	<0.01		
346065	5384815	3216	Lucy Spur	0.28	4.14	0.02		
346035	5384860	3217	Lucy Spur	0.93	2.51	<0.01		
345990	5384875	3218	Lucy Spur	1.15	2.56	<0.01		
345955	5384905	3219	Lucy Spur	0.36	1.61	<0.01		
345905	5384925	3220	Lucy Spur	0.63	2.08	<0.01		
345885	5384975	3221	Lucy Spur	0.53	3.36	<0.01		
345865	5385020	3222	Lucy Spur	2.52	5.93	<0.01		
346855	5385065	3223	Lucy Spur	0.84	4.09	<0.01		
346835	5385100	3224	Lucy Spur	2.67	11.29	<0.01		
346805	5385140	3225	Lucy Spur	0.61	3.54	<0.01		
345775	5385180	3226	Lucy Spur	3.44	13.31	<0.01		
345905	5384895	3227	Lucy Spur	0.3	3.23	0.02		
345860	5384870	3228	Lucy Spur	0.96	1.79	<0.01		
345815	5384845	3229	Lucy Spur	2.68	10.46	<0.01		
345770	5384840	3230	Lucy Spur	2.54	5.55	<0.01		
345715	5384815	3231	Lucy Spur	2.82	3.12	<0.01		
345680	5384850	3232	Lucy Spur	1.95	3.87	<0.01		
345640	5384875	3233	Lucy Spur	0.45	1.01	<0.01		
345595	5384890	3234	Lucy Spur	1.7	2.38	0.02		
345555	5384920	3235	Lucy Spur	4.12	4.64	0.03		
346315	5384885	3236	Lucy Spur	1.05	1.78	0.01		
346360	5384885	3237	Lucy Spur	1.41	2.57	0.02		
346410	5384860	3238	Lucy Spur	0.36	2.63	0.02		
346460	5384855	3239	Lucy Spur	0.66	1.64	0.04		
346510	5384850	3240	Lucy Spur	0.95	2.38	0.02		
346555	5384840	3241	Lucy Spur	0.44	0.69	0.01		
346610	5384825	3242	Lucy Spur	0.27	0.35	<0.01		
346720	5384905	3243	Lucy Spur	0.49	0.39	<0.01		
346760	5384940	3244	Lucy Spur	0.21	0.36	0.02		
346790	5384970	3245	Lucy Spur	0.72	0.43	<0.01		
346825	5385000	3246	Lucy Spur	6.38	1.06	0.02		
346665	5385005	3247	Lucy Spur	1.25	0.42	<0.01		
346620	5385015	3248	Lucy Spur	0.11	0.41	<0.01		
346580	5385040	3249	Lucy Spur	0.07	0.6	0.02		
346545	5385080	3250	Lucy Spur	0.08	0.69	0.02		
346520	5385125	3251	Lucy Spur	0.15	0.76	<0.01		
346510	5385175	3252	Lucy Spur	0.53	1.5	<0.01		
346500	5385225	3253	Lucy Spur	0.14	0.97	0.02		
346490	5385275	3254	Lucy Spur	0.28	0.83	0.02		
346470	5385320	3255	Lucy Spur	0.19	1.94	0.01		
346265	5385550	3256	Lucy Spur	0.27	2.49	<0.01		
346310	5385520	3257	Lucy Spur	0.19	3.54	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346360	5385505	3258	Lucy Spur	1.83	5.39	0.01		
346405	5385495	3259	Lucy Spur	0.86	0.85	0.02		
346440	5385460	3260	Lucy Spur	0.24	1.64	<0.01		
346490	5385465	3261	Lucy Spur	1.17	6.04	<0.01		
346535	5385490	3262	Lucy Spur	0.44	1.35	<0.01		
346590	5385490	3263	Lucy Spur	0.12	0.53	0.02		
346640	5385480	3264	Lucy Spur	0.08	0.69	0.04		
346675	5385450	3265	Lucy Spur	0.67	0.36	0.02		
346715	5385410	3266	Lucy Spur	1.04	0.98	0.01		
346760	5385410	3267	Lucy Spur	0.22	1.29	0.01		
346810	5385390	3268	Lucy Spur	0.08	0.2	<0.01		
346855	5385370	3269	Lucy Spur	<0.05	0.25	<0.01		
345645	5385110	3270	Lucy Spur	0.83	0.53	<0.01		
345600	5385140	3271	Lucy Spur	0.42	1.81	0.01		
345580	5385180	3272	Lucy Spur	0.58	2.15	0.03		
345545	5385215	3273	Lucy Spur	0.2	1.59	0.01		
345555	5385260	3274	Lucy Spur	0.9	0.89	0.01		
345565	5385315	3275	Lucy Spur	0.18	1.43	0.02		
345565	5385375	3276	Lucy Spur	0.66	1.09	<0.01		
345550	5385425	3277	Lucy Spur	0.68	1.22	<0.01		
345550	5385470	3278	Lucy Spur	0.32	1.75	<0.01		
345520	5385510	3279	Lucy Spur	0.21	2.27	<0.01		
345525	5385560	3280	Lucy Spur	0.64	2.61	<0.01		
345550	5385600	3281	Lucy Spur	0.57	3.35	0.02		
345570	5385650	3282	Lucy Spur	1.83	1.04	<0.01		
345615	5385675	3283	Lucy Spur	0.28	4.5	0.03		
345655	5385700	3284	Lucy Spur	38.36	0.74	<0.01		
345710	5385695	3285	Lucy Spur	1.59	4.83	<0.01		
345735	5385650	3286	Lucy Spur	0.85	1.95	<0.01		
345775	5385620	3287	Lucy Spur	0.57	1.39	<0.01		
345815	5385585	3288	Lucy Spur	5.17	29.48	0.02		
345845	5385550	3289	Lucy Spur	3.78	23.33	<0.01		
345845	5385495	3290	Lucy Spur	3.27	11	<0.01		
345865	5385450	3291	Lucy Spur	4.71	26.61	<0.01		
345880	5385400	3292	Lucy Spur	5.33	28.19	<0.01		
345925	5385370	3293	Lucy Spur	2.41	10.74	<0.01		
345950	5385325	3294	Lucy Spur	2.44	12.25	<0.01		
346475	5385895	3295	Lucy Spur	0.41	0.84	0.02		
346525	5385885	3296	Lucy Spur	1.4	36.49	0.01		
346575	5385875	3297	Lucy Spur	0.76	2.35	<0.01		
346625	5385885	3298	Lucy Spur	1.54	9.28	<0.01		
346675	5385875	3299	Lucy Spur	0.22	1.37	<0.01		
346720	5385900	3300	Lucy Spur	22.83	1.62	0.03		
346680	5385970	3301	Lucy Spur	43.7	0.61	0.08		
346700	5385925	3302	Lucy Spur	<0.05	0.8	0.1		
346755	5385870	3303	Lucy Spur	<0.05	0.89	0.11		
346790	5385830	3304	Lucy Spur	0.57	1.11	0.14		
346805	5385785	3305	Lucy Spur	<0.05	2.1	<0.01		
346825	5385735	3306	Lucy Spur	<0.05	0.67	<0.01		
346840	5385690	3307	Lucy Spur	<0.05	0.66	<0.01		
346865	5385645	3308	Lucy Spur	<0.05	0.66	<0.01		
346895	5385605	3309	Lucy Spur	0.64	1.15	0.03		

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Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346920	5385570	3310	Lucy Spur	<0.05	0.62	0.03		
346725	5385015	3311	Lucy Spur	<0.05	1.16	0.2		
347805	5385045	3312	Lucy Spur	<0.05	0.86	0.03		
347785	5385085	3313	Lucy Spur	0.89	0.6	<0.01		
347775	5385135	3314	Lucy Spur	0.25	0.65	<0.01		
347750	5385175	3315	Lucy Spur	0.9	0.77	0.07		
347715	5385205	3316	Lucy Spur	<0.05	0.97	0.02		
347690	5385250	3317	Lucy Spur	<0.05	0.5	<0.01		
347650	5385275	3318	Lucy Spur	0.19	1.63	0.04		
347600	5385295	3319	Lucy Spur	<0.05	0.55	0.04		
347555	5385310	3320	Lucy Spur	<0.05	0.8	0.04		
347465	5385170	3321	Lucy Spur	<0.05	1.8	<0.01		
347515	5385145	3322	Lucy Spur	<0.05	1	0.02		
347560	5385120	3323	Lucy Spur	<0.05	0.83	<0.01		
347595	5385085	3324	Lucy Spur	<0.05	1.5	<0.01		
347630	5385055	3325	Lucy Spur	<0.05	1.03	<0.01		
347665	5385020	3326	Lucy Spur	2.06	0.89	<0.01		
347640	5384615	3327	Lucy Spur	0.8	0.66	0.02		
347675	5384575	3328	Lucy Spur	6.78	0.61	<0.01		
347710	5384545	3329	Lucy Spur	1.73	0.44	<0.01		
347725	5384500	3330	Lucy Spur	<0.05	0.69	<0.01		
347755	5384455	3331	Lucy Spur	1.22	0.55	<0.01		
347765	5384415	3332	Lucy Spur	0.37	0.51	0.02		
347745	5384370	3333	Lucy Spur	0.7	1.28	0.05		
347715	5384325	3334	Lucy Spur	<0.05	0.69	0.11		
347680	5384290	3335	Lucy Spur	0.92	0.53	<0.01		
347705	5384615	3336	Lucy Spur	<0.05	0.62	0.04		
347720	5384660	3337	Lucy Spur	0.55	0.67	0.04		
347730	5384700	3338	Lucy Spur	<0.05	0.46	0.04		
347640	5384665	3339	Lucy Spur	<0.05	0.82	0.05		
347630	5384720	3340	Lucy Spur	<0.05	0.65	0.13		
347605	5384760	3341	Lucy Spur	<0.05	0.54	<0.01		
347620	5384810	3342	Lucy Spur	<0.05	0.38	<0.01		
347630	5384850	3343	Lucy Spur	0.19	0.66	<0.01		
347630	5384900	3344	Lucy Spur	<0.05	1.14	<0.01		
347665	5384915	3345	Lucy Spur	0.18	1.06	<0.01		
347700	5384900	3346	Lucy Spur	0.88	1.25	0.02		
347630	5384935	3347	Lucy Spur	0.74	2.58	<0.01		
347600	5384965	3348	Lucy Spur	0.33	1.22	0.07		
347470	5384525	3349	Lucy Spur	<0.05	0.77	0.14		
347505	5384495	3350	Lucy Spur	0.16	0.61	0.08		
347555	5384490	3351	Lucy Spur	3.57	0.55	<0.01		
347600	5384510	3352	Lucy Spur	0.34	0.56	0.03		
347640	5384535	3353	Lucy Spur	<0.05	0.58	0.04		
347675	5384565	3354	Lucy Spur	<0.05	0.02	<0.01		
347605	5384500	3355	Lucy Spur	0.44	0.39	<0.01		
347565	5384465	3356	Lucy Spur	0.86	0.54	<0.01		
347555	5384410	3357	Lucy Spur	<0.05	0.25	<0.01		
347515	5384385	3358	Lucy Spur	0.16	0.62	0.02		
347500	5384340	3359	Lucy Spur	0.55	0.77	<0.01		
347625	5384300	3360	Lucy Spur	1.88	0.29	<0.01		
347585	5384320	3361	Lucy Spur	1.14	0.37	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347540	5384335	3362	Lucy Spur	0.3	0.16	<0.01		
347480	5384290	3363	Lucy Spur	0.16	1.92	<0.01		
347460	5384245	3364	Lucy Spur	0.33	0.2	0.03		
347420	5384190	3365	Lucy Spur	0.31	0.31	<0.01		
347380	5384180	3366	Lucy Spur	0.3	0.28	<0.01		
347470	5384160	3367	Lucy Spur	0.6	0.76	<0.01		
347480	5384075	3368	Lucy Spur	<0.05	0.06	<0.01		
347490	5384250	3369	Lucy Spur	0.16	0.46	<0.01		
347545	5384235	3370	Lucy Spur	<0.05	0.51	<0.01		
347585	5384210	3371	Lucy Spur	0.62	0.37	0.02		
347435	5384565	3372	Lucy Spur	<0.05	0.62	<0.01		
347420	5384610	3373	Lucy Spur	0.24	0.61	0.02		
347430	5384660	3374	Lucy Spur	<0.05	0.54	0.03		
347475	5384675	3375	Lucy Spur	<0.05	0.51	<0.01		
347495	5384720	3376	Lucy Spur	<0.05	0.97	<0.01		
347515	5384770	3377	Lucy Spur	0.22	0.51	<0.01		
347505	5384815	3378	Lucy Spur	0.54	0.83	<0.01		
347500	5384860	3379	Lucy Spur	<0.05	0.2	<0.01		
347485	5384905	3380	Lucy Spur	<0.05	0.81	<0.01		
347505	5384955	3381	Lucy Spur	0.5	0.5	<0.01		
347405	5384340	3382	Lucy Spur	2.93	0.83	<0.01		
347360	5384345	3383	Lucy Spur	0.95	0.85	0.02		
347310	5384350	3384	Lucy Spur	0.18	0.2	0.02		
347270	5384350	3385	Lucy Spur	0.71	1.41	<0.01		
347220	5384350	3386	Lucy Spur	0.16	1.6	<0.01		
347180	5384350	3387	Lucy Spur	1.35	0.83	<0.01		
347140	5384350	3388	Lucy Spur	1.71	0.18	<0.01		
347105	5384350	3389	Lucy Spur	1.18	0.69	0.02		
347065	5384350	3390	Lucy Spur	1.39	0.2	0.08		
347020	5384350	3391	Lucy Spur	1.1	0.35	<0.01		
346975	5384350	3392	Lucy Spur	0.28	0.29	0.03		
346930	5384350	3393	Lucy Spur	605.4	0.37	0.03		
346880	5384350	3394	Lucy Spur	25.8	0.13	0.02		
346835	5384350	3395	Lucy Spur	6.55	0.65	<0.01		
346625	5384350	3396	Lucy Spur	1.39	0.25	0.07		
346575	5384350	3397	Lucy Spur	0.86	0.52	0.02		
346525	5384350	3398	Lucy Spur	0.67	0.87	0.04		
347005	5384370	3401	Lucy Spur	0.17	0.38	<0.01		
346995	5384390	3405	Lucy Spur	1.34	0.5	<0.01		
346990	5384415	3409	Lucy Spur	0.13	0.33	0.01		
346980	5384435	3413	Lucy Spur	0.32	0.28	<0.01		
346960	5384455	3417	Lucy Spur	1.3	0.43	0.02		
346950	5384480	3421	Lucy Spur	1.55	2.96	<0.01		
346940	5384500	3425	Lucy Spur	0.52	0.1	<0.01		
346940	5384525	3429	Lucy Spur	3.16	0.16	<0.01		
346955	5384545	3433	Lucy Spur	2.68	0.63	<0.01		
346965	5384570	3437	Lucy Spur	0.65	0.1	0.02		
346955	5384595	3441	Lucy Spur	0.58	0.17	<0.01		
349955	5384620	3445	Lucy Spur	0.72	0.3	<0.01		
346950	5384640	3449	Lucy Spur	0.19	0.26	<0.01		
346960	5384665	3453	Lucy Spur	4.58	1.33	<0.01		
346970	5384680	3457	Lucy Spur	0.81	0.32	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346980	5384705	3461	Lucy Spur	0.22	0.16	<0.01		
346980	5384735	3465	Lucy Spur	<0.05	0.51	0.01		
346990	5384750	3469	Lucy Spur	<0.05	0.18	<0.01		
347005	5384770	3473	Lucy Spur	0.21	0.25	0.02		
347020	5384785	3477	Lucy Spur	2.29	0.22	0.01		
347040	5384800	3481	Lucy Spur	1.71	0.33	<0.01		
346970	5384685	3483	Lucy Spur	0.71	0.27	<0.01		
346970	5384690	3484	Lucy Spur	1.06	0.42	<0.01		
346975	5384695	3485	Lucy Spur	1.26	0.15	<0.01		
346975	5384700	3486	Lucy Spur	1.82	0.14	<0.01		
346900	5384465	3487	Lucy Spur	2.25	1.58	0.02		
346850	5384475	3488	Lucy Spur	4.9	1.58	<0.01		
346820	5384515	3489	Lucy Spur	1.61	0.71	<0.01		
346810	5384550	3490	Lucy Spur	0.78	0.72	<0.01		
346925	5384700	3491	Lucy Spur	1.31	0.29	<0.01		
346890	5384680	3492	Lucy Spur	2.84	0.83	<0.01		
346845	5384670	3493	Lucy Spur	1.73	1.24	<0.01		
346800	5384675	3494	Lucy Spur	5.34	0.66	0.07		
346760	5384705	3495	Lucy Spur	1.18	0.32	0.01		
346740	5384750	3496	Lucy Spur	0.89	0.61	0.14		
346725	5384800	3497	Lucy Spur	0.55	0.82	0.02		
346700	5384830	3498	Lucy Spur	0.2	0.25	0.02		
346690	5384875	3499	Lucy Spur	1.11	0.35	0.04		
347050	5384865	3500	Lucy Spur	0.35	1.79	0.02		
347050	5384820	3501	Lucy Spur	<0.05	0.15	0.09		
347055	5384760	3502	Lucy Spur	0.15	0.44	0.03		
347055	5384710	3503	Lucy Spur	1.66	2.79	0.01		
347056	5384665	3504	Lucy Spur	1.5	30.9	0.05		
347057	5384615	3505	Lucy Spur	1.51	0.55	<0.01		
347058	5384560	3506	Lucy Spur	0.45	0.3	<0.01		
347059	5384515	3507	Lucy Spur	0.29	0.33	<0.01		
347060	5384470	3508	Lucy Spur	0.9	0.3	<0.01		
347065	5384420	3509	Lucy Spur	1.79	0.33	0.03		
347065	5384370	3510	Lucy Spur	0.14	0.29	<0.01		
349600	5389818	3511	Rocky River	5.23	22.1	<0.01		
349625	5389815	3512	Rocky River	2.81	14.8	<0.01		
349650	5389813	3513	Rocky River	1.91	4.97	<0.01		
349675	5389812	3514	Rocky River	2.35	2.65	<0.01		
349700	5389811	3515	Rocky River	2.85	1.97	<0.01		
349725	5389810	3516	Rocky River	8.77	1.12	<0.01		
349750	5389808	3517	Rocky River	4.44	6.38	<0.01		
349775	5389806	3518	Rocky River	5.97	6.3	<0.01		
349800	5389800	3519	Rocky River	4.66	2.37	<0.01		
349822	5389792	3520	Rocky River	2.6	1.64	<0.01		
349852	5389785	3521	Rocky River	1.41	6.11	<0.01		
349877	5389775	3522	Rocky River	2.69	1.54	<0.01		
349905	5389768	3523	Rocky River	2.4	0.72	<0.01		
349930	5389760	3524	Rocky River	2.44	2.25	<0.01		
349955	5389752	3525	Rocky River	3.2	1.21	<0.01		
349980	5389745	3526	Rocky River	3.05	0.29	<0.01		
350002	5389740	3527	Rocky River	2.37	0.09	<0.01		
350050	5389725	3528	Rocky River	1.94	1.87	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
349575	5389818	3529	Rocky River	2.35	3.64	<0.01		
349550	5389820	3530	Rocky River	2.57	5.05	<0.01		
349525	5389820	3531	Rocky River	1.83	7.92	<0.01		
349498	5389825	3532	Rocky River	1.67	5.9	<0.01		
349473	5389825	3533	Rocky River	4.21	7.22	<0.01		
349443	5389830	3534	Rocky River	1.63	9.12	<0.01		
349423	5389830	3535	Rocky River	1.63	7.7	<0.01		
349398	5389830	3536	Rocky River	5.11	9.21	<0.01		
349370	5389830	3537	Rocky River	3.21	16.08	0.03		
349345	5389825	3538	Rocky River	3.54	7.64	<0.01		
349320	5389825	3539	Rocky River	1.76	7.8	<0.01		
349295	5389808	3540	Rocky River	1.65	1.06	<0.01		
349273	5389805	3541	Rocky River	1.53	4.47	<0.01		
349250	5389797	3542	Rocky River	1.93	5.31	<0.01		
349225	5389790	3543	Rocky River	1.31	7.68	<0.01		
349200	5389785	3544	Rocky River	1.07	4.09	<0.01		
349175	5389780	3545	Rocky River	1.34	1.78	<0.01		
349150	5389775	3546	Rocky River	1.27	9.43	<0.01		
349125	5389770	3547	Rocky River	1.34	20.12	<0.01		
349100	5389765	3548	Rocky River	1.22	18.19	<0.01		
349075	5389760	3549	Rocky River	1.86	11.77	<0.01		
349050	5389755	3550	Rocky River	3.11	7.04	<0.01		
349025	5389750	3551	Rocky River	1.75	1.22	<0.01		
349025	5389990	3552	Rocky River	1.22	2.61	<0.01		
349052	5389995	3553	Rocky River	2.49	8.11	<0.01		
349072	5390000	3554	Rocky River	3.62	2.25	<0.01		
349100	5390005	3555	Rocky River	3.62	24.46	<0.01		
349155	5390015	3556	Rocky River	1.47	7.66	<0.01		
349200	5390030	3557	Rocky River	1.23	5.72	<0.01		
349250	5390040	3558	Rocky River	2.29	4.32	<0.01		
349300	5390050	3559	Rocky River	2.37	12.83	<0.01		
349350	5390055	3560	Rocky River	3.23	21.76	<0.01		
349395	5390060	3561	Rocky River	2	19.5	0.03		
349450	5390065	3562	Rocky River	5	21.88	<0.01		
349500	5390070	3563	Rocky River	2.55	6.97	<0.01		
349525	5390025	3564	Rocky River	5.64	2.39	<0.01		
349570	5390020	3565	Rocky River	4.1	2.13	<0.01		
349620	5390015	3566	Rocky River	2.36	4.95	<0.01		
349670	5390015	3567	Rocky River	1.71	24.55	<0.01		
349720	5390015	3568	Rocky River	3.22	21.96	<0.01		
349770	5390015	3569	Rocky River	2.81	3.58	<0.01		
349820	5390015	3570	Rocky River	2.59	10.06	<0.01		
349870	5390015	3571	Rocky River	2.7	2.92	<0.01		
349065	5389725	3572	Rocky River	5	9.75	<0.01		
349115	5389715	3573	Rocky River	3.37	14.54	<0.01		
349150	5389075	3574	Rocky River	1.3	17.62	<0.01		
349165	5389635	3575	Rocky River	0.78	3.53	<0.01		
349165	5389585	3576	Rocky River	0.73	7.9	<0.01		
349215	5389570	3577	Rocky River	10	3.23	<0.01		
349255	5389600	3578	Rocky River	1.68	9.1	<0.01		
349280	5389635	3579	Rocky River	2.7	12.67	<0.01		
349305	5389620	3580	Rocky River	1.47	6.53	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
349320	5389575	3581	Rocky River	2.02	10.14	<0.01		
349335	5389530	3582	Rocky River	83.6	32.26	<0.01		
349320	5389540	3583	Rocky River	2.62	5.87	<0.01		
349345	5389545	3584	Rocky River	1.5	15.77	<0.01		
349370	5389550	3585	Rocky River	2.21	28.19	<0.01		
349390	5389555	3586	Rocky River	1.96	14.41	<0.01		
349415	5389555	3587	Rocky River	1.53	11.05	<0.01		
349440	5389560	3588	Rocky River	3.67	16.06	<0.01		
349465	5389565	3589	Rocky River	2.83	9.8	<0.01		
349490	5389570	3590	Rocky River	6.76	15.42	<0.01		
349515	5389572	3591	Rocky River	2.67	4.75	<0.01		
349560	5389575	3592	Rocky River	2.47	0.9	<0.01		
349560	5389580	3593	Rocky River	2.4	0.5	<0.01		
349585	5389585	3594	Rocky River	1.92	1.2	<0.01		
349610	5389590	3595	Rocky River	5.87	16.48	<0.01		
349635	5389590	3596	Rocky River	6.32	36.14	<0.01		
349655	5389590	3597	Rocky River	2.98	9.16	<0.01		
349675	5389590	3598	Rocky River	4.7	5.64	<0.01		
349700	5389590	3599	Rocky River	1.71	0.95	<0.01		
349725	5389590	3600	Rocky River	8.91	2.56	<0.01		
349745	5389590	3701	Rocky River	3.8	1.56	<0.01		
349765	5389590	3702	Rocky River	0.46	1.61	<0.01		
349820	5389590	3703	Rocky River	0.64	0.91	<0.01		
349845	5389590	3704	Rocky River	0.8	0.72	<0.01		
350005	5389590	3705	Rocky River	0.5	0.48	<0.01		
350030	5389590	3706	Rocky River	2.08	17.79	<0.01		
350150	5389590	3707	Rocky River	0.95	0.59	<0.01		
349615	5389445	3708	Rocky River	2.82	20.97	<0.01		
349590	5389440	3709	Rocky River	4.11	30.19	<0.01		
349565	5389435	3710	Rocky River	1.72	11.28	<0.01		
349540	5389430	3711	Rocky River	3.49	10.7	<0.01		
349520	5389425	3712	Rocky River	2.68	1.23	<0.01		
349495	5389420	3713	Rocky River	3.06	1.76	<0.01		
349470	5389410	3714	Rocky River	3.96	4.73	<0.01		
349445	5389407	3715	Rocky River	2.8	12.76	0.23		
349420	5389400	3716	Rocky River	5.68	26.77	<0.01		
349395	5389400	3717	Rocky River	3.4	28.27	<0.01		
349377	5389400	3718	Rocky River	1.81	16.53	<0.01		
349347	5389400	3719	Rocky River	1.55	19.15	<0.01		
349325	5389400	3720	Rocky River	2.88	16.12	<0.01		
349300	5389400	3721	Rocky River	2.38	16.29	<0.01		
349275	5389400	3722	Rocky River	1.03	4.45	<0.01		
349250	5389400	3723	Rocky River	2.75	2.54	<0.01		
349235	5389400	3724	Rocky River	0.62	3.38	<0.01		
349640	5389445	3725	Rocky River	0.86	9.4	0.07		
349665	5389445	3726	Rocky River	17.1	32	0.13		
349690	5389445	3727	Rocky River	0.89	5.19	0.04		
349715	5389445	3728	Rocky River	0.4	1.19	0.01		
349740	5389445	3729	Rocky River	<0.05	1.33	<0.01		
349770	5389445	3730	Rocky River	1.77	1.88	0.01		
349816	5389440	3731	Rocky River	0.23	1.69	0.01		
349840	5389440	3732	Rocky River	3.6	3.4	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
349865	5389440	3733	Rocky River	1.52	1.07	<0.01		
349890	5389437	3734	Rocky River	1.19	0.76	0.03		
349965	5389430	3735	Rocky River	0.2	0.39	<0.01		
349990	5389435	3736	Rocky River	0.88	2.01	0.01		
350020	5389420	3737	Rocky River	1.33	12.1	<0.01		
350165	5389405	3738	Rocky River	0.17	1.26	<0.01		
350125	5389200	3739	Rocky River	1.19	1.11	<0.01		
350080	5389200	3740	Rocky River	0.51	2.05	<0.01		
349985	5389200	3741	Rocky River	0.61	0.46	0.01		
349895	5389200	3742	Rocky River	1.43	0.46	<0.01		
349850	5389200	3743	Rocky River	1.66	0.94	<0.01		
349800	5389200	3744	Rocky River	0.21	0.46	<0.01		
349750	5389200	3745	Rocky River	0.71	0.37	0.02		
349700	5389200	3746	Rocky River	0.73	1.36	<0.01		
349665	5389200	3747	Rocky River	7.85	7.92	<0.01		
349625	5389200	3748	Rocky River	3.91	5.38	0.05		
349580	5389200	3749	Rocky River	2.5	10.9	0.05		
349535	5389200	3750	Rocky River	2.58	10.3	0.02		
349495	5389200	3751	Rocky River	1.32	5.6	0.07		
349445	5389200	3752	Rocky River	1.01	7.08	0.09		
349410	5389200	3753	Rocky River	1.54	10.2	0.08		
349305	5389175	3754	Rocky River	2.13	7.05	<0.01		
349260	5389160	3755	Rocky River	<0.05	2.1	0.06		
349215	5389145	3756	Rocky River	0.84	8.03	<0.01		
349175	5389135	3757	Rocky River	0.6	1.81	<0.01		
349135	5389125	3758	Rocky River	2.64	16.3	0.07		
349090	5389105	3759	Rocky River	1.65	1.29	0.02		
349040	5389095	3760	Rocky River	1.77	0.94	0.02		
349030	5388675	3761	Rocky River	0.46	11.2	0.03		
349075	5388670	3762	Rocky River	1.54	0.68	0.03		
349115	5388660	3763	Rocky River	0.44	0.75	<0.01		
349160	5388645	3764	Rocky River	1.98	4.55	0.02		
349200	5388640	3765	Rocky River	0.57	2.09	<0.01		
349245	5388640	3766	Rocky River	1.2	9.2	<0.01		
349285	5388645	3767	Rocky River	1.22	4.38	0.02		
349330	5388650	3768	Rocky River	1.61	7.98	0.02		
349370	5388660	3769	Rocky River	2.22	28.9	0.07		
349200	5388665	3770	Rocky River	1.74	10.2	0.02		
349455	5388705	3771	Rocky River	0.22	12.04	<0.01		
349490	5388730	3772	Rocky River	4.45	28.04	<0.01		
349535	5388745	3773	Rocky River	0.99	1.31	<0.01		
349565	5388770	3774	Rocky River	0.42	14.65	0.02		
349580	5388815	3775	Rocky River	17.8	14.91	<0.01		
349605	5388860	3776	Rocky River	1.4	2.3	<0.01		
349640	5388895	3777	Rocky River	<0.05	12.59	<0.01		
349680	5388925	3778	Rocky River	1.74	24.93	<0.01		
349725	5388945	3779	Rocky River	<0.05	5.62	<0.01		
349770	5388965	3780	Rocky River	<0.05	0.43	<0.01		
349820	5388965	3781	Rocky River	0.26	1.66	<0.01		
349865	5388965	3782	Rocky River	<0.05	2.16	0.02		
349905	5388940	3783	Rocky River	0.22	2.41	<0.01		
349940	5388900	3784	Rocky River	0.13	1.02	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
349980	5388870	3785	Rocky River	1.62	0.29	<0.01		
346880	5384450	4301	Lucy Spur	<0.05	0.48	<0.01		
346860	5384450	4302	Lucy Spur	<0.05	1.33	<0.01		
346835	5384450	4303	Lucy Spur	<0.05	1.43	<0.01		
346810	5384450	4304	Lucy Spur	0.69	1.23	<0.01		
346785	5384450	4305	Lucy Spur	0.24	0.93	<0.01		
346735	5384450	4306	Lucy Spur	0.31	0.78	<0.01		
346710	5384450	4307	Lucy Spur	0.15	1.34	<0.01		
347160	5384550	4308	Lucy Spur	1.37	4.38	<0.01		
347135	5384550	4309	Lucy Spur	<0.05	1.15	<0.01		
347110	5384550	4310	Lucy Spur	<0.05	0.96	<0.01		
347085	5384550	4311	Lucy Spur	<0.05	0.05	<0.01		
347060	5384550	4312	Lucy Spur	<0.05	0.96	<0.01		
347040	5384550	4313	Lucy Spur	<0.05	0.03	<0.01		
347010	5384550	4314	Lucy Spur	0.49	0.65	<0.01		
346990	5384550	4315	Lucy Spur	1.79	0.98	<0.01		
346965	5384550	4316	Lucy Spur	1.94	0.71	<0.01		
346965	5384550	4317	Lucy Spur	1.3	0.5	<0.01		
346935	5384550	4318	Lucy Spur	1.24	0.53	<0.01		
346910	5384550	4319	Lucy Spur	<0.05	0.63	<0.01		
346885	5384550	4320	Lucy Spur	0.3	0.74	<0.01		
346860	5384550	4321	Lucy Spur	0.15	1.71	<0.01		
346835	5384550	4322	Lucy Spur	0.32	1.74	<0.01		
346810	5384550	4323	Lucy Spur	<0.05	0.82	<0.01		
346785	5384550	4324	Lucy Spur	<0.05	1.01	<0.01		
346760	5384550	4325	Lucy Spur	<0.05	0.96	<0.01		
346710	5384550	4326	Lucy Spur	0.27	5.48	<0.01		
346685	5384550	4327	Lucy Spur	1.72	3.81	<0.01		
346660	5384550	4328	Lucy Spur	3.33	5.16	<0.01		
346635	5384550	4329	Lucy Spur	<0.05	0.66	<0.01		
347155	5384650	4330	Lucy Spur	1.26	1.65	<0.01		
347130	5384650	4331	Lucy Spur	1.28	2.74	<0.01		
347105	5384650	4332	Lucy Spur	<0.05	0.63	<0.01		
347080	5384650	4333	Lucy Spur	<0.05	1.98	<0.01		
347055	5384650	4334	Lucy Spur	<0.05	2.34	<0.01		
347030	5384650	4335	Lucy Spur	2.48	0.27	<0.01		
347005	5384650	4336	Lucy Spur	<0.05	0.51	<0.01		
347005	5384650	4337	Lucy Spur	0.91	2.74	<0.01		
346980	5384650	4338	Lucy Spur	1.06	1.06	<0.01		
346960	5384650	4339	Lucy Spur	<0.05	0.81	<0.01		
346935	5384650	4340	Lucy Spur	0.43	1.77	<0.01		
346910	5384650	4341	Lucy Spur	5.05	0.88	<0.01		
346885	5384650	4342	Lucy Spur	2.72	0.77	<0.01		
346860	5384650	4343	Lucy Spur	1.64	8.04	<0.01		
346835	5384670	4344	Lucy Spur	0.39	3.88	<0.01		
346810	5384675	4345	Lucy Spur	0.56	1.56	0.8		
346785	5384680	4346	Lucy Spur	6.94	1.42	1.02		
346760	5384685	4347	Lucy Spur	0.14	0.59	<0.01		
346735	5384685	4348	Lucy Spur	<0.05	1.4	<0.01		
346710	5384690	4349	Lucy Spur	<0.05	1.26	<0.01		
346685	5384695	4350	Lucy Spur	0.51	15.02	<0.01		
346663	5384698	4351	Lucy Spur	0.42	1.72	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346642	5384702	4352	Lucy Spur	1.27	2.13	<0.01		
346660	5384750	4353	Lucy Spur	<0.05	0.71	<0.01		
346685	5384750	4354	Lucy Spur	0.16	1.01	<0.01		
346710	5384750	4355	Lucy Spur	0.77	1.06	<0.01		
346735	5384750	4356	Lucy Spur	<0.05	2.32	<0.01		
346735	5384750	4357	Lucy Spur	0.14	1.42	<0.01		
346760	5384750	4358	Lucy Spur	<0.05	0.64	<0.01		
346785	5384750	4359	Lucy Spur	2.1	6.94	0.02		
346810	5384750	4360	Lucy Spur	<0.05	2.84	0.01		
346835	5384750	4361	Lucy Spur	18.7	28.48	<0.01		
346860	5384750	4362	Lucy Spur	0.27	2.34	<0.01		
346885	5384750	4363	Lucy Spur	<0.05	1.2	<0.01		
346910	5384750	4364	Lucy Spur	1.2	1.34	<0.01		
346935	5384750	4365	Lucy Spur	1.84	10.99	<0.01		
346960	5384750	4366	Lucy Spur	0.62	1.57	<0.01		
346985	5384750	4367	Lucy Spur	<0.05	2.14	<0.01		
347010	5384750	4368	Lucy Spur	<0.05	1.31	<0.01		
347035	5384750	4369	Lucy Spur	0.16	0.88	<0.01		
347060	5384750	4370	Lucy Spur	0.21	2.51	<0.01		
347085	5384750	4371	Lucy Spur	<0.05	3.36	<0.01		
347110	5384750	4372	Lucy Spur	<0.05	3.01	<0.01		
347135	5384750	4373	Lucy Spur	0.26	4.01	<0.01		
347160	5384750	4374	Lucy Spur	0.76	1.2	<0.01		
347155	5384850	4375	Lucy Spur	2.6	5.7	<0.01		
347130	5384850	4376	Lucy Spur	<0.05	3.18	<0.01		
347130	5384850	4377	Lucy Spur	0.18	2.79	<0.01		
347105	5384850	4378	Lucy Spur	<0.05	1.44	<0.01		
347080	5384850	4379	Lucy Spur	<0.05	1.33	<0.01		
347055	5384850	4380	Lucy Spur	<0.05	1.75	<0.01		
347030	5384850	4381	Lucy Spur	<0.05	0.91	<0.01		
347005	5384850	4382	Lucy Spur	0.75	1.92	<0.01		
346980	5384850	4383	Lucy Spur	0.76	2.72	<0.01		
346955	5384850	4384	Lucy Spur	6.35	0.85	<0.01		
346930	5384850	4385	Lucy Spur	11	0.59	<0.01		
346905	5384850	4386	Lucy Spur	1.9	7.73	<0.01		
346880	5384850	4387	Lucy Spur	0.8	2.6	<0.01		
346855	5384850	4388	Lucy Spur	1.03	1.22	<0.01		
346830	5384850	4389	Lucy Spur	0.12	0.53	0.01		
346805	5384850	4390	Lucy Spur	0.91	1.23	<0.01		
346780	5384850	4391	Lucy Spur	2.33	1.11	0.01		
346755	5384850	4392	Lucy Spur	32.9	4.75	<0.01		
346730	5384850	4393	Lucy Spur	0.73	1.16	<0.01		
346705	5384850	4394	Lucy Spur	<0.05	1.45	<0.01		
346680	5384850	4395	Lucy Spur	0.13	0.94	<0.01		
346655	5384850	4396	Lucy Spur	0.15	0.54	<0.01		
346655	5384850	4397	Lucy Spur	0.25	0.7	<0.01		
346655	5384970	4398	Lucy Spur	0.2	0.43	<0.01		
346680	5384970	4399	Lucy Spur	0.1	0.87	<0.01		
346705	5384967	4400	Lucy Spur	0.7	0.96	<0.01		
347160	5384050	4401	Lucy Spur	<0.05	0.19	<0.01		
347135	5384050	4402	Lucy Spur	<0.05	1.21	<0.01		
347110	5384050	4403	Lucy Spur	<0.05	0.92	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347085	5384050	4404	Lucy Spur	<0.05	1.77	<0.01		
347060	5384050	4405	Lucy Spur	<0.05	1.92	<0.01		
347035	5384050	4406	Lucy Spur	0.41	8.66	<0.01		
347010	5384050	4407	Lucy Spur	0.67	6.32	<0.01		
346985	5384050	4408	Lucy Spur	<0.05	6.25	<0.01		
346960	5384050	4409	Lucy Spur	2.14	4.93	<0.01		
346935	5384050	4410	Lucy Spur	<0.05	2.03	<0.01		
346910	5384050	4411	Lucy Spur	<0.05	1.52	<0.01		
346885	5384050	4412	Lucy Spur	0.32	1.2	<0.01		
346860	5384050	4413	Lucy Spur	<0.05	0.23	<0.01		
346835	5384050	4414	Lucy Spur	0.19	0.13	<0.01		
346810	5384050	4415	Lucy Spur	0.3	0.94	<0.01		
346785	5384050	4416	Lucy Spur	0.21	0.92	<0.01		
346760	5384050	4417	Lucy Spur	0.16	1.65	<0.01		
346735	5384050	4418	Lucy Spur	<0.05	2.26	<0.01		
346710	5384050	4419	Lucy Spur	0.16	0.92	<0.01		
346685	5384050	4420	Lucy Spur	0.18	2.78	<0.01		
346660	5384050	4421	Lucy Spur	0.17	1.67	<0.01		
347175	5384250	4422	Lucy Spur	<0.05	1.49	<0.01		
347135	5384250	4423	Lucy Spur	0.47	2.83	<0.01		
347075	5384250	4424	Lucy Spur	1.19	3.25	<0.01		
347165	5384150	4425	Lucy Spur	<0.05	2.44	<0.01		
347140	5384150	4426	Lucy Spur	0.32	6.43	<0.01		
347140	5384150	4427	Lucy Spur	0.21	5.73	<0.01		
347115	5384150	4428	Lucy Spur	<0.05	4.68	<0.01		
347090	5384150	4429	Lucy Spur	0.49	2.35	<0.01		
347065	5384150	4430	Lucy Spur	0.78	3.91	<0.01		
347040	5384150	4431	Lucy Spur	<0.05	2.32	<0.01		
347015	5384150	4432	Lucy Spur	<0.05	1.77	<0.01		
346990	5384150	4433	Lucy Spur	0.29	14.91	<0.01		
346965	5384150	4434	Lucy Spur	<0.05	1.71	<0.01		
346940	5384150	4435	Lucy Spur	<0.05	1.85	<0.01		
346915	5384150	4436	Lucy Spur	0.16	1.2	<0.01		
346890	5384150	4437	Lucy Spur	0.13	1.1	<0.01		
346865	5384150	4438	Lucy Spur	<0.05	0.37	<0.01		
346840	5384150	4439	Lucy Spur	0.14	0.54	<0.01		
346815	5384150	4440	Lucy Spur	0.3	<0.01	<0.01		
346790	5384150	4441	Lucy Spur	0.16	0.81	<0.01		
346765	5384150	4442	Lucy Spur	1.07	0.88	<0.01		
346735	5384150	4443	Lucy Spur	0.14	0.46	<0.01		
346715	5384150	4444	Lucy Spur	0.28	1.68	<0.01		
346685	5384150	4445	Lucy Spur	<0.05	1.33	<0.01		
346660	5384150	4446	Lucy Spur	0.13	1.85	<0.01		
346660	5384150	4447	Lucy Spur	0.17	1.55	<0.01		
347100	5384260	4448	Lucy Spur	<0.05	1.86	<0.01		
347078	5384260	4449	Lucy Spur	0.61	3.09	<0.01		
347055	5384260	4450	Lucy Spur	<0.05	1.09	<0.01		
347040	5384260	4451	Lucy Spur	0.34	0.4	<0.01		
347020	5384265	4452	Lucy Spur	0.28	0.43	<0.01		
346995	5384270	4453	Lucy Spur	<0.05	0.66	<0.01		
346970	5384275	4454	Lucy Spur	0.2	1.19	<0.01		
346945	5384280	4455	Lucy Spur	5.51	0.69	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346945	5384280	4456	Lucy Spur	12.2	0.82	<0.01		
346920	5384285	4457	Lucy Spur	0.3	1.47	<0.01		
346905	5384290	4458	Lucy Spur	<0.05	0.71	<0.01		
346875	5384295	4459	Lucy Spur	<0.05	0.46	<0.01		
346850	5384300	4460	Lucy Spur	0.51	1.37	<0.01		
346825	5384305	4461	Lucy Spur	<0.05	0.41	<0.01		
346800	5384315	4462	Lucy Spur	0.27	0.92	<0.01		
346780	5384320	4463	Lucy Spur	<0.05	1.46	<0.01		
346755	5384325	4464	Lucy Spur	<0.05	1.37	<0.01		
346730	5384330	4465	Lucy Spur	<0.05	1.55	<0.01		
346705	5384340	4466	Lucy Spur	<0.05	0.83	<0.01		
346685	5384345	4467	Lucy Spur	0.38	1.52	<0.01		
347125	5384350	4468	Lucy Spur	0.74	0.33	<0.01		
347085	5384350	4469	Lucy Spur	1.23	1.72	<0.01		
347150	5384350	4470	Lucy Spur	0.9	0.93	<0.01		
347105	5384350	4471	Lucy Spur	1.38	1.68	<0.01		
347060	5384350	4472	Lucy Spur	0.31	0.66	<0.01		
347035	5384350	4473	Lucy Spur	<0.05	0.57	<0.01		
347015	5384350	4474	Lucy Spur	<0.05	0.79	<0.01		
346995	5384350	4475	Lucy Spur	2.07	0.55	<0.01		
346970	5384350	4476	Lucy Spur	0.64	1.84	<0.01		
346970	5384350	4477	Lucy Spur	0.33	0.47	<0.01		
346945	5384350	4478	Lucy Spur	58.6	1.15	<0.01		
346920	5384350	4479	Lucy Spur	0.15	0.92	<0.01		
346895	5384350	4480	Lucy Spur	<0.05	0.37	<0.01		
346870	5384350	4481	Lucy Spur	0.29	0.4	<0.01		
346845	5384350	4482	Lucy Spur	<0.05	0.55	<0.01		
346820	5384350	4483	Lucy Spur	<0.05	1.34	<0.01		
346795	5384350	4484	Lucy Spur	<0.05	0.61	<0.01		
346770	5384350	4485	Lucy Spur	<0.05	1.03	<0.01		
346740	5384350	4486	Lucy Spur	<0.05	0.02	<0.01		
346720	5384350	4487	Lucy Spur	<0.05	0.93	<0.01		
346695	5384350	4488	Lucy Spur	0.2	1.74	<0.01		
347160	5384450	4489	Lucy Spur	1.34	1.44	<0.01		
347135	5384450	4490	Lucy Spur	1.27	3.01	<0.01		
347110	5384450	4491	Lucy Spur	0.34	0.61	<0.01		
347085	5384450	4492	Lucy Spur	0.21	0.19	<0.01		
347060	5384450	4493	Lucy Spur	0.39	1.46	<0.01		
347035	5384450	4494	Lucy Spur	0.37	0.26	<0.01		
347010	5384450	4495	Lucy Spur	0.13	0.24	<0.01		
346985	5384450	4496	Lucy Spur	0.59	0.88	<0.01		
346985	5384450	4497	Lucy Spur	6.73	0.89	<0.01		
346960	5384450	4498	Lucy Spur	0.15	0.99	<0.01		
346935	5384450	4499	Lucy Spur	1.04	1.02	<0.01		
346910	5384450	4500	Lucy Spur	0.4	3.43	<0.01		
3452620	5384880	4501	Lucy Spur	1.64	5.35	0.05		
345575	5384900	4502	Lucy Spur	1.69	4.64	0.02		
345560	5384965	4503	Lucy Spur	0.52	4.05	0.03		
345540	5384980	4504	Lucy Spur	1.15	2.12	<0.01		
345510	5385020	4505	Lucy Spur	1.4	4.38	<0.01		
345510	5385060	4506	Lucy Spur	1.39	4.72	0.04		
345670	5385185	4507	Lucy Spur	0.29	5.41	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
345650	5385175	4508	Lucy Spur	0.77	0.65	<0.01		
345640	5385220	4509	Lucy Spur	0.87	3.06	0.03		
345660	5385265	4510	Lucy Spur	2.22	15.39	0.05		
345715	5385320	4511	Lucy Spur	1.14	5.66	<0.01		
345750	5385370	4512	Lucy Spur	1.15	6.33	<0.01		
345785	5385410	4513	Lucy Spur	4.29	21.05	<0.01		
345815	5385455	4514	Lucy Spur	3.8	17.32	0.02		
345845	5385490	4515	Lucy Spur	3.27	16.72	0.03		
345875	5385525	4516	Lucy Spur	4.24	23.74	<0.01		
345915	5385540	4517	Lucy Spur	3.3	8.73	0.03		
345915	5385560	4518	Lucy Spur	1.13	9.25	0.07		
345975	5385600	4519	Lucy Spur	0.97	1.81	<0.01		
345980	5385650	4520	Lucy Spur	0.98	2.28	<0.01		
345600	5385000	4521	Lucy Spur	2.66	22.18	0.02		
345645	5384985	4522	Lucy Spur	3	18.16	0.02		
345695	5384970	4523	Lucy Spur	1.81	7.69	<0.01		
345745	5384955	4524	Lucy Spur	4.83	9.02	<0.01		
345785	5384950	4525	Lucy Spur	2.16	1.35	<0.01		
345785	5384950	4526	Lucy Spur	1.34	2.13	0.02		
345830	5384970	4527	Lucy Spur	0.22	0.38	<0.01		
345815	5385085	4528	Lucy Spur	1.14	5.68	<0.01		
345775	5385120	4529	Lucy Spur	0.38	2.22	0.04		
345740	5385135	4530	Lucy Spur	4.49	12.7	0.04		
345715	5385145	4531	Lucy Spur	4.44	17.84	<0.01		
345700	5385150	4532	Lucy Spur	1.06	5.28	0.06		
345670	5385410	4533	Lucy Spur	0.38	1.34	<0.01		
345670	5385410	4534	Lucy Spur	0.85	2.57	<0.01		
345680	5385500	4535	Lucy Spur	2.92	1.37	<0.01		
345760	5385630	4536	Lucy Spur	0.55	1.42	<0.01		
345795	5385600	4537	Lucy Spur	0.6	4.81	<0.01		
345830	5385570	4538	Lucy Spur	0.82	0.66	<0.01		
345850	5385520	4539	Lucy Spur	3.73	20.92	0.03		
345860	5385470	4540	Lucy Spur	3.08	28.3	<0.01		
345875	5385425	4541	Lucy Spur	9.76	42.2	<0.01		
345900	5385380	4542	Lucy Spur	4.34	21.43	<0.01		
345940	5385350	4543	Lucy Spur	3.18	15.14	<0.01		
345830	5385235	4544	Lucy Spur	1.6	7.4	0.02		
345830	5385235	4545	Lucy Spur	0.87	3.79	<0.01		
345870	5385205	4546	Lucy Spur	0.16	1.82	<0.01		
345905	5385175	4547	Lucy Spur	1.01	3.47	0.02		
345920	5385140	4548	Lucy Spur	6.27	14.27	<0.01		
345980	5385110	4549	Lucy Spur	2.54	5.56	<0.01		
346100	5385040	4550	Lucy Spur	1.16	2.91	0.02		
346145	5385035	4551	Lucy Spur	0.6	2.27	<0.01		
346170	5385070	4552	Lucy Spur	0.31	2.7	0.02		
346150	5385115	4553	Lucy Spur	1.11	4.59	<0.01		
346125	5385155	4554	Lucy Spur	1.18	2.61	<0.01		
346095	5385200	4555	Lucy Spur	0.4	2.24	0.02		
346060	5385235	4556	Lucy Spur	1.7	5.65	<0.01		
346020	5385270	4557	Lucy Spur	1.02	2.48	0.04		
347265	5387110	4558	Lucy Spur	0.09	0.11	<0.01		
347265	5387140	4559	Lucy Spur	1.05	1.88	0.02		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
347265	5387160	4560	Lucy Spur	1.1	0.63	<0.01		
347265	5387185	4561	Lucy Spur	<0.05	56.69	<0.01		
347265	5387210	4562	Lucy Spur	0.17	3.05	<0.01		
347265	5387255	4563	Lucy Spur	0.47	1.67	<0.01		
347250	5387850	4564	Lucy Spur	0.84	1.08	0.01		
347225	5387880	4565	Lucy Spur	10.8	4.99	0.03		
347225	5387880	4566	Lucy Spur	6.72	15.11	<0.01		
347080	5387590	4567	Lucy Spur	0.2	3.77	<0.01		
346950	5387440	4568	Lucy Spur	3.59	1.28	0.02		
346950	5387415	4569	Lucy Spur	4.45	1.21	<0.01		
347050	5387840	4570	Lucy Spur	1.72	1.42	<0.01		
347060	5387800	4571	Lucy Spur	1.44	0.9	<0.01		
347090	5387750	4572	Lucy Spur	1.81	1.2	<0.01		
347150	5387530	4573	Lucy Spur	<0.05	13.74	<0.01		
347520	5387470	4574	Lucy Spur	<0.05	1.11	<0.01		
347450	5387375	4575	Lucy Spur	0.2	0.68	0.02		
347465	5387410	4576	Lucy Spur	1.76	0.72	<0.01		
347470	5387440	4577	Lucy Spur	3.02	0.54	<0.01		
347465	5387350	4578	Lucy Spur	0.58	0.52	<0.01		
346730	5384965	4601	Lucy Spur	0.32	0.91	<0.01		
346755	5384955	4602	Lucy Spur	2.23	1	<0.01		
346780	5384950	4603	Lucy Spur	1.24	1.05	<0.01		
346805	5384950	4604	Lucy Spur	0.62	1.36	<0.01		
346830	5384950	4605	Lucy Spur	0.19	1.16	<0.01		
346855	5384950	4606	Lucy Spur	0.83	1.89	0.02		
346880	5384950	4607	Lucy Spur	4.43	44.09	<0.01		
346905	5384950	4608	Lucy Spur	3.8	8.68	0.03		
346930	5384950	4609	Lucy Spur	8.85	1.19	<0.01		
346955	5384950	4610	Lucy Spur	<0.05	0.75	<0.01		
346980	5384950	4611	Lucy Spur	<0.05	1.52	<0.01		
347005	5384950	4612	Lucy Spur	0.2	0.8	<0.01		
347030	5384950	4613	Lucy Spur	0.19	0.78	<0.01		
347105	5384950	4614	Lucy Spur	<0.05	1.25	<0.01		
347130	5384950	4615	Lucy Spur	<0.05	2.31	<0.01		
347155	5384950	4616	Lucy Spur	0.36	1.75	<0.01		
346860	5384650	4617	Lucy Spur	0.16	1.21	<0.01		
346835	5384650	4618	Lucy Spur	0.21	2.84	<0.01		
346835	5384650	4619	Lucy Spur	0.45	3.85	<0.01		
346810	5384650	4620	Lucy Spur	1.08	1.74	0.02		
346785	5384650	4621	Lucy Spur	0.67	1.96	0.02		
346760	5384650	4622	Lucy Spur	1.17	1.47	<0.01		
346735	5384650	4623	Lucy Spur	0.17	1.04	<0.01		
346710	5384650	4624	Lucy Spur	<0.05	1.12	<0.01		
346685	5384650	4625	Lucy Spur	0.77	0.32	0.02		
346660	5384650	4626	Lucy Spur	0.45	9.18	0.05		
346960	5384250	4627	Lucy Spur	0.11	1.04	<0.01		
346935	5384250	4628	Lucy Spur	0.54	1.08	<0.01		
346910	5384250	4629	Lucy Spur	<0.05	1.15	<0.01		
346885	5384250	4630	Lucy Spur	1.01	0.54	<0.01		
346860	5384250	4631	Lucy Spur	0.26	0.9	<0.01		
346835	5384250	4632	Lucy Spur	0.62	0.66	<0.01		
346810	5384250	4633	Lucy Spur	<0.05	0.69	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346785	5384250	4634	Lucy Spur	<0.05	1	<0.01		
346760	5384250	4635	Lucy Spur	0.15	1.16	<0.01		
346735	5384250	4636	Lucy Spur	<0.05	0.81	<0.01		
346710	5384250	4637	Lucy Spur	<0.05	0.64	<0.01		
346685	5384250	4638	Lucy Spur	0.2	1.14	<0.01		
346660	5384250	4639	Lucy Spur	<0.05	435	<0.01		
347165	5385012	4640	Lucy Spur	<0.05	16.13	<0.01		
347140	5385015	4641	Lucy Spur	0.14	1.61	<0.01		
347125	5385020	4642	Lucy Spur	0.64	1.59	<0.01		
347100	5385025	4643	Lucy Spur	0.44	1.26	<0.01		
347080	5385022	4644	Lucy Spur	0.59	1.38	<0.01		
347055	5385030	4645	Lucy Spur	1.36	1.7	<0.01		
347020	5385035	4646	Lucy Spur	<0.05	0.97	<0.01		
346995	5385040	4647	Lucy Spur	2.14	1.32	<0.01		
346835	5385040	4649	Lucy Spur	0.71	1.1	<0.01		
346805	5385035	4650	Lucy Spur	0.64	0.83	<0.01		
346805	5385035	4651	Lucy Spur	0.61	0.93	<0.01		
346780	5385030	4652	Lucy Spur	0.88	10.12	<0.01		
346760	5385025	4653	Lucy Spur	0.69	1.24	<0.01		
346735	5385020	4654	Lucy Spur	0.22	1.39	<0.01		
346710	5385015	4655	Lucy Spur	0.56	0.89	<0.01		
346685	5385010	4656	Lucy Spur	1.06	0.7	<0.01		
346660	5385005	4657	Lucy Spur	1.97	0.94	<0.01		
347150	5385150	4658	Lucy Spur	0.13	0.98	<0.01		
347125	5385150	4659	Lucy Spur	0.98	31.3	<0.01		
347100	5385150	4660	Lucy Spur	0.19	0.79	<0.01		
347075	5385150	4661	Lucy Spur	0.15	1.15	<0.01		
346825	5385150	4662	Lucy Spur	0.52	0.68	<0.01		
346800	5385150	4663	Lucy Spur	0.32	0.84	<0.01		
346775	5385150	4664	Lucy Spur	1.51	1.17	<0.01		
346750	5385150	4665	Lucy Spur	0.24	2.05	<0.01		
346725	5385150	4666	Lucy Spur	0.33	1.54	<0.01		
346700	5385150	4667	Lucy Spur	0.21	1.19	<0.01		
346675	5385150	4668	Lucy Spur	<0.05	1.12	<0.01		
346650	5385150	4669	Lucy Spur	0.69	1.47	<0.01		
346650	5385250	4670	Lucy Spur	<0.05	4.1	<0.01		
346650	5385250	4671	Lucy Spur	2.02	6.13	<0.01		
346700	5385250	4672	Lucy Spur	0.12	1.1	<0.01		
346725	5385250	4673	Lucy Spur	<0.05	2.1	<0.01		
346750	5385250	4674	Lucy Spur	<0.05	1.68	<0.01		
347150	5384250	4675	Lucy Spur	1.28	2.2	<0.01		
347125	5385250	4676	Lucy Spur	0.34	1.33	<0.01		
347150	5385450	4677	Lucy Spur	2.77	1.01	<0.01		
347125	5385450	4678	Lucy Spur	1.22	0.78	<0.01		
347100	5385450	4679	Lucy Spur	0.5	0.57	0.01		
347075	5385450	4680	Lucy Spur	0.73	1.5	<0.01		
347050	5385450	4681	Lucy Spur	1.08	7.76	0.01		
347025	5385450	4682	Lucy Spur	0.9	1.06	0.01		
347000	5385450	4683	Lucy Spur	1.72	0.52	<0.01		
347895	5385450	4684	Lucy Spur	<0.05	0.87	<0.01		
347875	5385450	4685	Lucy Spur	1.08	0.77	<0.01		
347850	5385450	4686	Lucy Spur	<0.05	0.5	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346825	5385450	4687	Lucy Spur	<0.05	1.96	<0.01		
346800	5385450	4688	Lucy Spur	0.24	1.59	<0.01		
346775	5385450	4689	Lucy Spur	1.05	0.68	<0.01		
346750	5385450	4690	Lucy Spur	0.97	0.97	<0.01		
346725	5385450	4691	Lucy Spur	<0.05	1.67	<0.01		
347700	5385450	4692	Lucy Spur	<0.05	0.85	<0.01		
346675	5385450	4693	Lucy Spur	0.12	2.13	0.01		
346650	5385450	4694	Lucy Spur	1.07	1.19	<0.01		
346650	5385450	4695	Lucy Spur	1.08	0.76	<0.01		
347145	5385550	4701	Lucy Spur	<0.05	2.51	0.01		
347120	5385550	4702	Lucy Spur	<0.05	3.1	<0.01		
347095	5385550	4703	Lucy Spur	<0.05	1.18	0.01		
347070	5385550	4704	Lucy Spur	0.15	1.65	0.01		
347045	5385550	4705	Lucy Spur	0.14	1.05	<0.01		
347020	5385550	4706	Lucy Spur	0.13	0.64	0.01		
346995	5385550	4707	Lucy Spur	0.62	0.53	<0.01		
346970	5385550	4708	Lucy Spur	0.98	3.3	0.01		
346945	5385550	4709	Lucy Spur	<0.05	0.95	<0.01		
346920	5385550	4710	Lucy Spur	1.78	1.25	<0.01		
346895	5385550	4711	Lucy Spur	<0.05	0.23	0.01		
346870	5385550	4712	Lucy Spur	<0.05	1.07	<0.01		
346845	5385550	4713	Lucy Spur	<0.05	2.11	0.02		
346820	5385550	4714	Lucy Spur	1.1	0.07	<0.01		
346795	5385550	4715	Lucy Spur	<0.05	0.56	0.01		
346770	5385550	4716	Lucy Spur	0.1	0.93	<0.01		
346845	5385632	4717	Lucy Spur	0.58	0.89	0.01		
346820	5385632	4718	Lucy Spur	0.53	0.97	<0.01		
346795	5385632	4719	Lucy Spur	0.2	1.09	<0.01		
346770	5385632	4720	Lucy Spur	1.24	0.06	0.02		
346745	5385630	4721	Lucy Spur	1.14	1.28	0.02		
346720	5385630	4722	Lucy Spur	<0.05	16.56	<0.01		
346690	5385630	4723	Lucy Spur	0.54	2.31	<0.01		
346660	5385630	4724	Lucy Spur	0.94	1.43	<0.01		
346870	5385633	4725	Lucy Spur	1.3	<0.01	0.02		
346895	5385633	4726	Lucy Spur	0.41	0.88	<0.01		
346895	5385633	4727	Lucy Spur	1.51	0.31	<0.01		
346920	5385633	4728	Lucy Spur	<0.05	0.56	<0.01		
346945	5385634	4729	Lucy Spur	<0.05	1.63	<0.01		
346970	5385634	4730	Lucy Spur	<0.05	0.43	<0.01		
346995	5385634	4731	Lucy Spur	<0.05	3.29	<0.01		
347020	5385635	4732	Lucy Spur	<0.05	1.21	<0.01		
347045	5385635	4733	Lucy Spur	<0.05	0.57	<0.01		
347070	5385635	4734	Lucy Spur	0.28	0.28	0.01		
347095	5385636	4735	Lucy Spur	0.47	0.55	<0.01		
347120	5385638	4736	Lucy Spur	0.23	1.29	<0.01		
347145	5385640	4737	Lucy Spur	<0.05	0.01	0.01		
347035	5385750	4738	Lucy Spur	<0.05	<0.01	<0.01		
347060	5385750	4739	Lucy Spur	0.17	0.3	0.02		
347085	5385750	4740	Lucy Spur	1.76	0.03	<0.01		
347130	5385750	4741	Lucy Spur	0.43	0.61	<0.01		
347010	5385750	4742	Lucy Spur	0.57	0.01	0.01		
346985	5385750	4743	Lucy Spur	0.22	0.08	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
346960	5385750	4744	Lucy Spur	0.16	0.03	<0.01		
346935	5385750	4745	Lucy Spur	0.66	0.57	<0.01		
346910	5385750	4746	Lucy Spur	0.6	0.99	<0.01		
346885	5385750	4747	Lucy Spur	<0.05	0.36	0.01		
346885	5385750	4748	Lucy Spur	<0.05	0.31	0.01		
346860	5385750	4749	Lucy Spur	<0.05	1.35	0.01		
346835	5385750	4750	Lucy Spur	0.1	0.92	0.01		
346810	5385750	4751	Lucy Spur	0.9	<0.01	<0.01		
346785	5385750	4752	Lucy Spur	<0.05	1.24	<0.01		
346770	5385750	4753	Lucy Spur	<0.05	0.41	<0.01		
346735	5385750	4754	Lucy Spur	<0.05	0.74	<0.01		
346710	5385750	4755	Lucy Spur	0.7	0.8	<0.01		
346685	5385750	4756	Lucy Spur	0.8	1.7	<0.01		
346660	5385750	4757	Lucy Spur	<0.05	1.34	<0.01		
346635	5385750	4758	Lucy Spur	<0.05	1.23	<0.01		
346650	5385850	4759	Lucy Spur	0.3	0.99	<0.01		
346675	5385850	4760	Lucy Spur	0.4	1.29	<0.01		
346700	5385850	4761	Lucy Spur	0.4	1.26	<0.01		
346725	5385850	4762	Lucy Spur	0.3	1.25	<0.01		
346750	5385850	4763	Lucy Spur	0.8	0.4	<0.01		
346775	5385850	4764	Lucy Spur	1.6	1.04	<0.01		
346800	5385850	4765	Lucy Spur	1.1	0.07	<0.01		
346800	5385850	4766	Lucy Spur	0.9	<0.01	<0.01		
346825	5385850	4767	Lucy Spur	<0.05	1.94	<0.01		
346850	5385850	4768	Lucy Spur	<0.05	1.14	<0.01		
346875	5385850	4769	Lucy Spur	0.5	5.08	<0.01		
346900	5385850	4770	Lucy Spur	0.5	0.58	0.01		
346925	5385850	4771	Lucy Spur	<0.05	1.2	<0.01		
346950	5385850	4772	Lucy Spur	<0.05	1.81	0.01		
346975	5385850	4773	Lucy Spur	1.3	0.65	<0.01		
347025	5385850	4774	Lucy Spur	<0.05	0.32	<0.01		
347050	5385850	4775	Lucy Spur	0.9	3.39	<0.01		
347075	5385850	4776	Lucy Spur	0.26	0.56	<0.01		
347100	5385850	4777	Lucy Spur	<0.05	0.94	0.01		
347150	5385850	4778	Lucy Spur	<0.05	0.99	<0.01		
347150	5385950	4779	Lucy Spur	<0.05	0.44	<0.01		
347125	5385950	4780	Lucy Spur	0.84	0.52	<0.01		
347100	5385950	4781	Lucy Spur	1	<0.01	0.02		
347075	5385950	4782	Lucy Spur	<0.05	<0.01	<0.01		
347050	5385950	4783	Lucy Spur	<0.05	0.78	<0.01		
347025	5385950	4784	Lucy Spur	1.3	0.29	<0.01		
347000	5385950	4785	Lucy Spur	0.8	9.19	<0.01		
346975	5385950	4786	Lucy Spur	0.9	0.36	<0.01		
346950	5385950	4787	Lucy Spur	0.4	0.53	<0.01		
346925	5385950	4788	Lucy Spur	<0.05	1.14	<0.01		
346900	5385950	4789	Lucy Spur	<0.05	1.6	<0.01		
346875	5385950	4790	Lucy Spur	<0.05	1.09	<0.01		
346850	5385950	4791	Lucy Spur	<0.05	2.68	<0.01		
346825	5385950	4792	Lucy Spur	0.5	1.91	0.02		
346800	5385950	4793	Lucy Spur	<0.05	0.71	<0.01		
346775	5385950	4794	Lucy Spur	0.5	0.39	<0.01		
346750	5385950	4795	Lucy Spur	1	2.23	<0.01		

Easting	Northing	Sample	Prospect Units	Au ppb	Cu ppm	Ag ppm		
			DL	0.1	0.01	0.1		
346725	5385950	4796	Lucy Spur	<0.05	0.65	0.01		
346700	5385950	4797	Lucy Spur	<0.05	1.02	<0.01		
346675	5385950	4798	Lucy Spur	<0.05	1.5	0.01		
346650	5385950	4799	Lucy Spur	<0.05	1.08	<0.01		
346650	5385950	4800	Lucy Spur	0.2	2.65	<0.01		
346625	5385950	4801	Lucy Spur	1.9	<0.01	0.02		
346600	5385950	4802	Lucy Spur	8.2	25.73	0.02		
346575	5385950	4803	Lucy Spur	<0.05	5.51	<0.01		
346550	5385950	4804	Lucy Spur	<0.05	5.35	<0.01		
347150	5386050	4805	Lucy Spur	<0.05	1.82	<0.01		
347125	5386050	4806	Lucy Spur	1.3	0.85	<0.01		
347050	5386050	4807	Lucy Spur	<0.05	0.88	<0.01		
347025	5386050	4808	Lucy Spur	0.4	0.15	<0.01		
346990	5386050	4809	Lucy Spur	<0.05	0.43	<0.01		
346965	5386050	4810	Lucy Spur	<0.05	1.11	<0.01		
346945	5386050	4811	Lucy Spur	<0.05	0.6	<0.01		
346920	5386050	4812	Lucy Spur	<0.05	1.75	<0.01		
346895	5386050	4813	Lucy Spur	0.5	1.77	0.02		
346870	5386050	4814	Lucy Spur	0.5	0.76	<0.01		
346845	5386050	4815	Lucy Spur	0.4	1.5	<0.01		
346820	5386050	4816	Lucy Spur	<0.05	1.7	<0.01		
346795	5386050	4817	Lucy Spur	<0.05	1.67	<0.01		
346770	5386050	4818	Lucy Spur	0.1	6.49	<0.01		
346745	5386050	4819	Lucy Spur	1.3	0.51	0.02		
346695	5386050	4820	Lucy Spur	0.4	0.68	0.02		
346670	5386050	4821	Lucy Spur	0.5	0.23	<0.01		
346645	5386050	4822	Lucy Spur	<0.05	0.74	<0.01		
346620	5386050	4823	Lucy Spur	<0.05	1.29	<0.01		
346595	5386050	4824	Lucy Spur	0.2	3.01	<0.01		
346560	5386050	4825	Lucy Spur	<0.05	0.73	0.02		
346560	5386050	4826	Lucy Spur	<0.05	0.8	0.02		
347150	5386125	4827	Lucy Spur	0.8	0.37	<0.01		
347125	5386125	4828	Lucy Spur	<0.05	1.76	<0.01		
347100	5386125	4829	Lucy Spur	<0.05	0.49	<0.01		
347075	5386125	4830	Lucy Spur	0.6	0.14	<0.01		
347050	5386125	4831	Lucy Spur	1.2	0.85	<0.01		
347025	5386125	4832	Lucy Spur	<0.05	0.95	<0.01		
347000	5386125	4833	Lucy Spur	0.2	0.35	<0.01		
346975	5386125	4834	Lucy Spur	<0.05	0.95	<0.01		
346950	5386125	4835	Lucy Spur	<0.05	0.58	<0.01		
346925	5386125	4836	Lucy Spur	1.2	2.37	<0.01		
346900	5386125	4837	Lucy Spur	<0.05	0.64	<0.01		
346875	5386125	4838	Lucy Spur	<0.05	2.15	0.02		
346850	5386125	4839	Lucy Spur	2.1	1.76	<0.01		
346825	5386125	4840	Lucy Spur	0.5	2.61	0.02		
346800	5386125	4841	Lucy Spur	<0.05	0.8	<0.01		
346750	5386125	4842	Lucy Spur	1.4	1.08	<0.01		
346725	5386125	4843	Lucy Spur	<0.05	0.73	0.02		
346700	5386125	4844	Lucy Spur	1.5	0.95	0.01		
34675	5386125	4845	Lucy Spur	1	4.55	<0.01		
346650	5386125	4846	Lucy Spur	<0.05	1.07	0.01		
346650	5386125	4847	Lucy Spur	0.5	1.79	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
345990	5386100	4848	Lucy Spur	1.09	0.27	<0.01		
345930	5385975	4849	Lucy Spur	4.94	15.17	0.03		
345915	5385955	4850	Lucy Spur	4.66	20.93	0.16		
345910	5385930	4851	Lucy Spur	1.27	4.76	0.05		
345890	5385885	4852	Lucy Spur	6.11	35.53	<0.01		
345940	5385985	4853	Lucy Spur	2.9	36.29	0.03		
345800	5386125	4854	Lucy Spur	3.26	7.7	<0.01		
345755	5386145	4855	Lucy Spur	0.9	1.11	<0.01		
345640	5386205	4856	Lucy Spur	0.4	3.95	0.01		
345500	5386145	4857	Lucy Spur	<0.05	0.75	<0.01		
345465	5386135	4858	Lucy Spur	2.04	3.56	0.02		
345975	5385930	4859	Lucy Spur	6.87	3.74	<0.01		
345990	5385890	4860	Lucy Spur	3.98	10.01	<0.01		
346020	5385860	4861	Lucy Spur	3.37	7.22	0.02		
345990	5385825	4862	Lucy Spur	7.68	2.55	0.03		
345995	5385780	4863	Lucy Spur	0.6	1.28	<0.01		
345600	5385735	4864	Lucy Spur	1.13	0.34	<0.01		
346000	5385685	4865	Lucy Spur	3.15	0.52	0.02		
345975	5385710	4866	Lucy Spur	3.6	21.43	0.03		
345950	5385715	4867	Lucy Spur	89.5	42.15	<0.01		
345930	5385715	4868	Lucy Spur	10.7	8.27	<0.01		
345905	5385720	4869	Lucy Spur	6.38	24.58	<0.01		
345880	5385775	4870	Lucy Spur	3.31	4.53	<0.01		
345860	5385735	4871	Lucy Spur	13.2	7.83	0.02		
345825	5385750	4872	Lucy Spur	1.53	3.38	<0.01		
345800	5385760	4873	Lucy Spur	2.78	1.6	<0.01		
345775	5385765	4874	Lucy Spur	0.59	1.74	<0.01		
345575	5385845	4875	Lucy Spur	0.14	1.58	<0.01		
345540	5385825	4876	Lucy Spur	0.24	1.82	<0.01		
345495	5385805	4877	Lucy Spur	4.73	17.09	<0.01		
345455	5385790	4878	Lucy Spur	4.89	21.64	<0.01		
345400	5385780	4879	Lucy Spur	3.77	14.44	0.02		
345505	5385460	4880	Lucy Spur	0.93	3.24	<0.01		
345460	5385450	4881	Lucy Spur	1.95	0.39	0.02		
345430	5385410	4882	Lucy Spur	2.9	1.51	<0.01		
345395	5385375	4883	Lucy Spur	0.62	1.47	<0.01		
345300	5385350	4884	Lucy Spur	0.14	2.58	0.01		
345305	5385345	4885	Lucy Spur	<0.05	2.14	0.04		
345260	5385340	4886	Lucy Spur	0.81	1.38	<0.01		
345215	5385315	4887	Lucy Spur	2.13	3.24	<0.01		
345415	5385460	4888	Lucy Spur	1.91	1.25	0.02		
345370	5385475	4889	Lucy Spur	5.77	33.95	<0.01		
345320	5385465	4890	Lucy Spur	0.16	1.4	<0.01		
345280	5385460	4891	Lucy Spur	<0.05	1.76	<0.01		
346175	5386025	4892	Lucy Spur	<0.05	1.85	<0.01		
346220	5386027	4893	Lucy Spur	<0.05	0.68	0.02		
346270	5386030	4894	Lucy Spur	0.34	0.67	<0.01		
346320	5386035	4895	Lucy Spur	0.27	2.53	<0.01		
346370	5386035	4896	Lucy Spur	0.79	0.88	<0.01		
346440	5386040	4897	Lucy Spur	1.2	0.63	<0.01		
346500	5386042	4898	Lucy Spur	1.95	2.3	<0.01		
346560	5386045	4899	Lucy Spur	0.8	1.17	<0.01		

Easting	Northing	Sample	Prospect Units	Au ppb	Cu ppm	Ag ppm		
			DL	0.1	0.01	0.1		
346695	5386050	4900	Lucy Spur	1	3.19	0.01		
346750	5386050	4901	Lucy Spur	0.95	3.5	<0.01		
346815	5386050	4902	Lucy Spur	0.87	1.46	<0.01		
346880	5386050	4903	Lucy Spur	1.2	1.61	<0.01		
346945	5386050	4904	Lucy Spur	1.85	0.64	0.01		
347045	5386050	4905	Lucy Spur	3.01	0.93	<0.01		
347190	5386050	4906	Lucy Spur	0.92	0.81	<0.01		
347240	5386050	4907	Lucy Spur	0.35	0.35	<0.01		
347290	5386050	4908	Lucy Spur	2.21	1.73	0.06		
346965	5386565	4909	Lucy Spur	0.82	0.86	<0.01		
347160	5386520	4910	Lucy Spur	<0.05	0.96	<0.01		
340985	5382915	4933	Lefroy Ridge East	0.13	1.75	<0.01		
341035	5382930	4934	Lefroy Ridge East	3.82	18.16	<0.01		
341085	5382940	4935	Lefroy Ridge East	0.39	5.84	<0.01		
341130	5382925	4936	Lefroy Ridge East	0.79	2.81	<0.01		
341185	5382905	4937	Lefroy Ridge East	<0.05	1.24	<0.01		
341220	5382890	4938	Lefroy Ridge East	1.24	18.11	<0.01		
341245	5382860	4939	Lefroy Ridge East	1.45	0.4	<0.01		
341260	5382815	4940	Lefroy Ridge East	0.93	0.98	<0.01		
341290	5382790	4941	Lefroy Ridge East	6.45	8.99	<0.01		
341340	5382785	4942	Lefroy Ridge East	4.2	8.44	<0.01		
341395	5382805	4943	Lefroy Ridge East	6.13	11.15	<0.01		
341445	5382805	4944	Lefroy Ridge East	3.53	6.51	<0.01		
341505	5382805	4945	Lefroy Ridge East	4.13	15.77	<0.01		
341555	5382810	4946	Lefroy Ridge East	4.07	12.55	<0.01		
341600	5382800	4947	Lefroy Ridge East	2.79	3.58	<0.01		
341650	5382790	4948	Lefroy Ridge East	6.53	9.23	<0.01		
341695	5382780	4949	Lefroy Ridge East	2.8	5.76	<0.01		
341745	5382770	4950	Lefroy Ridge East	5.78	12.71	<0.01		
341790	5382780	4951	Lefroy Ridge East	1.69	7.51	<0.01		
341840	5382780	4952	Lefroy Ridge East	1.44	18.45	<0.01		
341890	5382760	4953	Lefroy Ridge East	1.36	34.47	<0.01		
341935	5382750	4954	Lefroy Ridge East	0.49	3.08	<0.01		
341985	5382740	4955	Lefroy Ridge East	0.77	1.29	<0.01		
342035	5382735	4956	Lefroy Ridge East	4.09	1.08	<0.01		
342090	5382740	4957	Lefroy Ridge East	3.84	2.6	<0.01		
342135	5382740	4958	Lefroy Ridge East	1.11	3.83	<0.01		
342185	5382740	4959	Lefroy Ridge East	0.99	0.77	<0.01		
342240	5382745	4960	Lefroy Ridge East	0.39	2.6	<0.01		
342290	5382750	4961	Lefroy Ridge East	1.96	1.97	<0.01		
342335	5382745	4962	Lefroy Ridge East	0.53	2.67	<0.01		
342390	5382745	4963	Lefroy Ridge East	0.15	3.47	<0.01		
342435	5382745	4964	Lefroy Ridge East	<0.05	1.02	<0.01		
342485	5382745	4965	Lefroy Ridge East	0.16	0.72	<0.01		
342535	5382745	4966	Lefroy Ridge East	1.76	0.78	<0.01		
342590	5382745	4967	Lefroy Ridge East	0.79	3	<0.01		
342640	5382745	4968	Lefroy Ridge East	3.08	3.8	<0.01		
342690	5382750	4969	Lefroy Ridge East	4.81	12.04	<0.01		
342735	5382750	4970	Lefroy Ridge East	2.28	12.54	<0.01		
342790	5382750	4971	Lefroy Ridge East	0.51	3.82	<0.01		
342835	5382750	4972	Lefroy Ridge East	1.35	2.29	<0.01		
342880	5382750	4973	Lefroy Ridge East	<0.05	2.71	<0.01		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
342940	5382750	4974	Lefroy Ridge East	1.97	5.71	<0.01		
342980	5382745	4975	Lefroy Ridge East	1.88	4.25	<0.01		
343030	5382740	4976	Lefroy Ridge East	2.44	3.44	<0.01		
343080	5382740	4977	Lefroy Ridge East	1.64	0.85	0.02		
343830	5382700	4978	Lefroy Ridge East	0.38	0.71	<0.01		
342830	5382650	4979	Lefroy Ridge East	0.35	0.85	0.02		
342830	5382600	4980	Lefroy Ridge East	2.66	4.08	<0.01		
342830	5382550	4981	Lefroy Ridge East	0.2	4.87	<0.01		
342830	5382500	4982	Lefroy Ridge East	6.69	11.13	0.04		
342830	5382450	4983	Lefroy Ridge East	<0.05	4.2	<0.01		
342815	5382395	4984	Lefroy Ridge East	2.36	2.58	0.02		
342785	5382355	4985	Lefroy Ridge East	1.15	3.09	<0.01		
342755	5382325	4986	Lefroy Ridge East	2.84	1.4	0.02		
342740	5382300	4987	Lefroy Ridge East	1.89	6.29	0.03		
342725	5382275	4988	Lefroy Ridge East	4.19	12.21	0.05		
342710	5382265	4989	Lefroy Ridge East	5.17	12.31	0.05		
342830	5382800	4990	Lefroy Ridge East	2.32	1.77	0.02		
342830	5382850	4991	Lefroy Ridge East	1.49	2.39	0.02		
342830	5382900	4992	Lefroy Ridge East	3.84	4.68	<0.01		
342830	5382950	4993	Lefroy Ridge East	10.1	3.61	<0.01		
342860	5382750	4994	Lefroy Ridge East	1.56	0.59	<0.01		
342905	5382750	4995	Lefroy Ridge East	2.28	3.68	<0.01		
342955	5382745	4996	Lefroy Ridge East	0.43	2.19	<0.01		
343005	5382740	4997	Lefroy Ridge East	2.18	4.78	<0.01		
343055	5382740	4998	Lefroy Ridge East	1.59	2.78	<0.01		
343830	5382725	4999	Lefroy Ridge East	2	3.1	<0.01		
343830	5382675	5000	Lefroy Ridge East	0.45	1	<0.01		
342830	5382625	5501	Lefroy Ridge East	2.06	1.16	0.02		
342830	5382575	5502	Lefroy Ridge East	6.75	12.55	0.02		
342830	5382525	5503	Lefroy Ridge East	3.78	4.48	0.02		
342830	5382475	5504	Lefroy Ridge East	4.11	9.34	<0.01		
342830	5382425	5505	Lefroy Ridge East	1.25	1.18	<0.01		
342800	5382370	5506	Lefroy Ridge East	0.92	2.91	0.02		
342770	5382335	5507	Lefroy Ridge East	0.61	0.96	0.02		
342830	5382775	5508	Lefroy Ridge East	1.45	0.86	<0.01		
342830	5382825	5509	Lefroy Ridge East	1.36	0.5	<0.01		
342830	5382875	5510	Lefroy Ridge East	1.41	0.88	<0.01		
342830	5382925	5511	Lefroy Ridge East	2.2	2.29	<0.01		
342810	5382750	5512	Lefroy Ridge East	2.31	1.98	<0.01		
342765	5382750	5513	Lefroy Ridge East	2.25	2.8	0.03		
342715	5382750	5514	Lefroy Ridge East	3.92	9.74	0.02		
342665	5382745	5515	Lefroy Ridge East	5.33	7.22	0.03		
342615	5382745	5516	Lefroy Ridge East	5.84	19.58	0.04		
342565	5382745	5517	Lefroy Ridge East	4.03	3.44	<0.01		
341990	5382700	5518	Lefroy Ridge East	1.66	11.75	0.01		
341980	5382660	5519	Lefroy Ridge East	1.63	1.88	<0.01		
341955	5382615	5520	Lefroy Ridge East	10.2	9.7	0.02		
341955	5382615	5521	Lefroy Ridge East	7.52	11.87	0.05		
341930	5382570	5522	Lefroy Ridge East	1.9	1.24	0.02		
341890	5382520	5523	Lefroy Ridge East	7.11	7.82	0.02		
341860	5382475	5524	Lefroy Ridge East	3.05	10.79	0.02		
341815	5382445	5525	Lefroy Ridge East	6.66	15.19	0.02		

Easting	Northing	Sample	Prospect	Au	Cu	Ag		
			Units	ppb	ppm	ppm		
			DL	0.1	0.01	0.1		
341830	5382405	5526	Lefroy Ridge East	2.63	0.48	0.02		
341800	5382380	5527	Lefroy Ridge East	5.6	4.98	0.02		
341750	5382365	5528	Lefroy Ridge East	0.74	9.71	0.02		
341785	5382340	5529	Lefroy Ridge East	3.3	8.5	0.02		
341765	5382300	5530	Lefroy Ridge East	4.19	9.65	0.02		
341725	5382265	5531	Lefroy Ridge East	5.73	9.19	<0.01		
341675	5382265	5532	Lefroy Ridge East	8.88	23.92	0.03		
341630	5382255	5533	Lefroy Ridge East	1.47	4.02	0.02		
341605	5382225	5534	Lefroy Ridge East	2.72	4.4	<0.01		
341560	5382220	5535	Lefroy Ridge East	1.59	4.3	0.02		
341560	5382190	5536	Lefroy Ridge East	4.44	2.9	0.02		
341530	5382165	5537	Lefroy Ridge East	2.65	2.69	<0.01		
341485	5382145	5538	Lefroy Ridge East	0.97	0.98	0.01		
342565	5382745	5539	Lefroy Ridge East	4.41	3.04	<0.01		
341985	5382740	5540	Lefroy Ridge East	0.98	0.85	0.9		
341795	5382770	5541	Lefroy Ridge East	9.2	11.93	0.03		
341220	5382890	5542	Lefroy Ridge East	0.78	9.11	<0.01		

2B: C soil, fire assay and acid digest, over southern adits at Lucy Spur

Easting	Northing	Sample	Prospect	Au	Au(R)	Cu	Ag	Sb
			Units	ppb	ppb	ppm	ppm	ppm
			DL	1	1	2	1	0.5
347020	5384350	3391	Lucy Spur	1	-	<2	<1	<0.5
346975	5384350	3392	Lucy Spur	5	-	<2	<1	<0.5
346930	5384350	3393	Lucy Spur	5872	5667	2	<1	<0.5
346880	5384350	3394	Lucy Spur	2	-	<2	<1	<0.5
346835	5384350	3395	Lucy Spur	6	-	<2	<1	<0.5
347005	5384370	3401	Lucy Spur	1	-	3	<1	<0.5
346995	5384390	3405	Lucy Spur	2	-	<2	<1	<0.5
346990	5384415	3409	Lucy Spur	16	-	<2	<1	<0.5
346980	5384435	3413	Lucy Spur	1	-	2	<1	<0.5
346960	5384455	3417	Lucy Spur	5	5	29	<1	<0.5
346950	5384480	3421	Lucy Spur	<1	-	44	<1	<0.5
346940	5384500	3425	Lucy Spur	8	-	4	<1	<0.5
346940	5384525	3429	Lucy Spur	2	-	4	<1	<0.5
346955	5384545	3433	Lucy Spur	16	-	3	<1	<0.5
346965	5384570	3437	Lucy Spur	2	-	2	<1	<0.5
346955	5384595	3441	Lucy Spur	1	-	<2	<1	<0.5
349955	5384620	3445	Lucy Spur	1	-	<2	<1	<0.5
346950	5384640	3449	Lucy Spur	2	-	2	<1	<0.5
346960	5384665	3453	Lucy Spur	6	-	4	<1	<0.5
346970	5384680	3457	Lucy Spur	2	5	5	<1	1.2
346980	5384705	3461	Lucy Spur	1	3	<2	<1	<0.5
346980	5384735	3465	Lucy Spur	1	-	2	<1	<0.5
346990	5384750	3469	Lucy Spur	2	-	<2	<1	<0.5
347005	5384770	3473	Lucy Spur	1	-	2	<1	<0.5
347020	5384785	3477	Lucy Spur	16	-	<2	<1	<0.5
347040	5384800	3481	Lucy Spur	1	-	<2	<1	<0.5
346970	5384685	3483	Lucy Spur	4	-	<2	<1	<0.5
346970	5384690	3484	Lucy Spur	2	-	<2	<1	<0.5

Easting	Northing	Sample	Prospect	Au ppb 1	Au(R) ppb 1	Cu ppm 2	Ag ppm 1	Sb ppm 0.5
346975	5384695	3485	Lucy Spur	1	-	<2	<1	<0.5
346975	5384700	3486	Lucy Spur	22	-	<2	<1	<0.5
2C: A,B,C soils, BCL (Au only), over southern adits at Lucy Spur. Analabs (An),								
Australian Laboratory Services (ALS)								
Easting	Northing	Sample	Prospect	Au ppb		Soil	Lab	
			Units	ppb				
			DL	0.1 An				
			DL	1 ALS				
347005	5384370	3399	Lucy Spur	<1		A	ALS	
347005	5384370	3400	Lucy Spur	<1		B	ALS	
347005	5384370	3401	Lucy Spur	0.17		C	An	
347005	5384370	3402	Lucy Spur	<1		C	ALS	
346995	5384390	3403	Lucy Spur	<1		A	ALS	
346995	5384390	3404	Lucy Spur	<1		B	ALS	
346995	5384390	3405	Lucy Spur	1.34		C	An	
346995	5384390	3406	Lucy Spur	<1		C	ALS	
346990	5384415	3407	Lucy Spur	<1		A	ALS	
346990	5384415	3408	Lucy Spur	<1		B	ALS	
346990	5384415	3409	Lucy Spur	0.13		C	An	
346990	5384415	3410	Lucy Spur	<1		C	ALS	
346980	5384435	3411	Lucy Spur	<1		A	ALS	
346980	5384435	3412	Lucy Spur	<1		B	ALS	
346980	5384435	3413	Lucy Spur	0.32		C	An	
346980	5384435	3414	Lucy Spur	<1		C	ALS	
346960	5384455	3415	Lucy Spur	<1		A	ALS	
346960	5384455	3416	Lucy Spur	<1		B	ALS	
346960	5384455	3417	Lucy Spur	1.3		C	An	
346960	5384455	3418	Lucy Spur	<1		C	ALS	
346950	5384480	3419	Lucy Spur	<1		A	ALS	
346950	5384480	3420	Lucy Spur	<1		B	ALS	
346950	5384480	3421	Lucy Spur	1.55		C	An	
346950	5384480	3422	Lucy Spur	<1		C	ALS	
346940	5384500	3423	Lucy Spur	<1		A	ALS	
346940	5384500	3424	Lucy Spur	<1		B	ALS	
346940	5384500	3425	Lucy Spur	0.52		C	An	
346940	5384500	3426	Lucy Spur	<1		C	ALS	
346940	5384525	3427	Lucy Spur	<1		A	ALS	
346940	5384525	3428	Lucy Spur	<1		B	ALS	
346940	5384525	3429	Lucy Spur	3.16		C	An	
346940	5384525	3430	Lucy Spur	<1		C	ALS	
346955	5384545	3431	Lucy Spur	<1		A	ALS	
346955	5384545	3432	Lucy Spur	<1		B	ALS	
346955	5384545	3433	Lucy Spur	2.68		C	An	
346955	5384545	3434	Lucy Spur	4		C	ALS	
346965	5384570	3435	Lucy Spur	<1		A	ALS	
346965	5384570	3436	Lucy Spur	<1		B	ALS	
346965	5384570	3437	Lucy Spur	0.65		C	An	
346965	5384570	3438	Lucy Spur	<1		C	ALS	
346955	5384595	3439	Lucy Spur	<1		A	ALS	

Easting	Northing	Sample	Prospect	Au		Soil	Lab	
			Units	ppb				
			DL	0.1 An				
			DL	1 ALS				
346955	5384595	3440	Lucy Spur	<1		B	ALS	
346955	5384595	3441	Lucy Spur	0.58		C	An	
346955	5384595	3442	Lucy Spur	<1		C	ALS	
346955	5384620	3443	Lucy Spur	<1		A	ALS	
346955	5384620	3444	Lucy Spur	<1		B	ALS	
349955	5384620	3445	Lucy Spur	0.72		C	An	
349955	5384620	3446	Lucy Spur	<1		C	ALS	
346950	5384640	3447	Lucy Spur	<1		A	ALS	
346950	5384640	3448	Lucy Spur	<1		B	ALS	
346950	5384640	3449	Lucy Spur	0.19		C	An	
346950	5384640	3450	Lucy Spur	<1		C	ALS	
346960	5384665	3451	Lucy Spur	<1		A	ALS	
346960	5384665	3452	Lucy Spur	<1		B	ALS	
346960	5384665	3453	Lucy Spur	4.58		C	An	
346960	5384665	3454	Lucy Spur	<1		C	ALS	
346970	5384680	3455	Lucy Spur	<1		A	ALS	
346970	5384680	3456	Lucy Spur	<1		B	ALS	
346970	5384680	3457	Lucy Spur	0.81		C	An	
346970	5384680	3458	Lucy Spur	<1		C	ALS	
346980	5384705	3459	Lucy Spur	<1		A	ALS	
346980	5384705	3460	Lucy Spur	<1		B	ALS	
346980	5384705	3461	Lucy Spur	0.22		C	An	
346980	5384705	3462	Lucy Spur	<1		C	ALS	
346980	5384735	3463	Lucy Spur	<1		A	ALS	
346980	5384735	3464	Lucy Spur	<1		B	ALS	
346980	5384735	3465	Lucy Spur	<0.05		C	An	
346980	5384735	3466	Lucy Spur	<1		C	ALS	
346990	5384750	3467	Lucy Spur	<1		A	ALS	
346990	5384750	3468	Lucy Spur	<1		B	ALS	
346990	5384750	3469	Lucy Spur	<0.05		C	An	
346990	5384750	3470	Lucy Spur	<1		C	ALS	
347005	5384770	3471	Lucy Spur	<1		A	ALS	
347005	5384770	3472	Lucy Spur	<1		B	ALS	
347005	5384770	3473	Lucy Spur	0.21		C	An	
347005	5384770	3474	Lucy Spur	<1		C	ALS	
347020	5384785	3475	Lucy Spur	<1		A	ALS	
347020	5384785	3476	Lucy Spur	<1		B	ALS	
347020	5384785	3477	Lucy Spur	2.29		C	An	
347020	5384785	3478	Lucy Spur	<1		C	ALS	
347040	5384800	3479	Lucy Spur	<1		A	ALS	
347040	5384800	3480	Lucy Spur	<1		B	ALS	
347040	5384800	3481	Lucy Spur	1.71		C	An	
347040	5384800	3482	Lucy Spur	<1		C	ALS	

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.99

APPENDIX 3

CLOSE-SPACED STREAM SEDIMENT SAMPLE NUMBERS, AMG CO-ORDINATES AND ANALYTICAL DATA FOR LEFROY RIDGE EAST, GRAHAM CREEK (ROCKY RIVER NORTH) PROSPECTS - pan.con. Au, -80# Au, Cu, Pb Zn, Ag, As, Sb, Bi, Mo, Sn, W.

Sample Types

1. Panned concentrate samples were derived from 9 litres of minus 4cm, active gravel collected in the stream bed.
2. Minus 80 mesh samples were derived from fine grained, muddy, waning-flood deposits usually collected in the stream channel. They were not sieved prior to laboratory processing.

Laboratory Processing**Amdel**

1. Panned concentrates dried and pulverised to nominal minus 75 micrometres. Sample analysed to extinction by 50gm fire assay, GFAAS finish.
2. Minus 80 mesh sample dried, sieved and pulverised to nominal minus 75 micrometres. Gold determined by 50gm fire assay, GFAAS finish (FA3). Cu, Pb, Zn, As, Ag, Sb, Mo, and Bi by aqua regia digest, ICP-OES/ICP-MS finish (IC2E/M). Sn and W by XRF (XRF1).

Analabs 5441 - 5451, 5455

Minus 80 mesh sample dried, sieved and pulverised to nominal minus 75 micrometres. Gold determined by 30gm fire assay (F630). triple acid digest (G102), with Cu, Pb, Zn by AAS finish (A102), As by hydride generation AAS (H102).

Easting	Northing	Sample	Prospect	Au* ug	Au ppb	Au Dp1 ppb	Cu ppm	Pb ppm	Zn ppm	As ppm	Ag ppm	Sb ppm	Mo ppm	Bi ppm	Sn ppm	W ppm	Hg ppm
			Units														
			DL	0.05	1	1	0.5	0.5	0.5	0.5	0.05	0.1	0.1	0.1	4	10	0.05
349025	5392325	3801	Graham Creek		100	15	91	10.5	130	1	0.2	0.6	0.1	0.2	<4	<10	0.1
349025	5392325	3802	Graham Creek	0.10													
348975	5392320	3803	Graham Creek		3	9	44	7.5	27	2	0.1	0.9	0.5	0.1	9	<10	0.05
348975	5392320	3804	Graham Creek	0.10													
348950	5392350	3805	Graham Creek		9		47.5	5	25	1	0.1	0.7	0.3	<0.1	<4	<10	0.05
348950	5392350	3806	Graham Creek	0.10													
348860	5392425	3807	Graham Creek		16	2	68	5	57	1	0.1	0.5	0.8	<0.1	<4	<10	0.05
348860	5392425	3808	Graham Creek	0.10													
348775	5392475	3809	Graham Creek		2		27	3.5	9	1.5	0.05	0.5	0.4	<0.1	<4	<10	0.05
348775	5392475	3810	Graham Creek	0.25													
348630	5392475	3811	Graham Creek		2		10.5	1.5	5	0.5	0.05	0.5	0.2	<0.1	<4	<10	<0.05
348630	5392475	3812	Graham Creek	2.75													
348575	5392450	3813	Graham Creek		3		40	3	8	<0.5	<0.05	0.4	0.2	<0.1	<4	<10	<0.05
348575	5392450	3814	Graham Creek	13													
348575	5392375	3815	Graham Creek		1		37.5	3	6	<0.5	<0.05	0.5	0.4	<0.1	<4	<10	<0.05
348575	5392375	3816	Graham Creek	0.25													
348925	5391800	3817	Graham Creek		<1		18.5	3	34	0.5	<0.05	0.3	<0.1	<0.1	28	<10	<0.05
348925	5391800	3818	Graham Creek	40													
349015	5391725	3819	Graham Creek		2		92	7.5	120	0.5	0.05	0.4	0.5	<0.1	7	<10	0.05
349015	5391725	3820	Graham Creek	3.35													
349175	5391200	3821	Graham Creek		8		150	7	200	1	0.1	0.3	0.9	<0.1	11	<10	0.05
349175	5391200	3822	Graham Creek	0.75													
349500	5391640	3823	Graham Creek		2		36.5	6.5	110	5.5	0.1	0.6	0.4	0.8	115	<10	<0.05
349500	5391640	3824	Graham Creek	11													
348665	5390525	3825	Graham Creek		6		57	2.5	18.5	1.5	<0.05	0.4	0.8	0.2	<4	<10	0.05
348665	5390525	3826	Graham Creek	0.10													
348640	5390640	3827	Graham Creek		2		42.5	2	11.5	1.5	<0.05	0.2	0.7	0.1	<4	<10	0.05
348640	5390640	3828	Graham Creek	0.10													
348625	5390815	3829	Graham Creek	<1			17.5	1.5	10	1	<0.05	0.2	0.4	<0.1	<4	<10	0.05
348625	5390815	3830	Graham Creek	2.55													
348590	5390810	3831	Graham Creek		1		21	2.5	12	<0.5	<0.05	0.2	0.6	<0.1	<4	<10	<0.05
348590	5390810	3832	Graham Creek	0.20													
348645	5390375	3833	Graham Creek		2		40.5	3	16	0.5	<0.05	0.3	0.6	0.1	<4	<10	0.05
348645	5390375	3834	Graham Creek	0.25													
349100	5391460	3835	Graham Creek		6		190	9.5	170	1	0.1	0.3	0.8	<0.1	8	<10	0.05
349100	5391460	3836	Graham Creek	12													
349650	5391900	3837	Graham Creek		6		76	7	100	1.5	0.1	0.3	0.5	<0.1	<4	<10	0.1
349650	5391900	3838	Graham Creek	0.35													
349225	5392350	3839	Graham Creek		4		165	10	180	0.5	0.1	0.3	0.2	<0.1	<4	10	0.05
349225	5392350	3840	Graham Creek	<0.05													
349250	5392375	3841	Graham Creek		2		52	6.5	115	0.5	0.05	0.2	0.1	<0.1	<4	<10	<0.05
349250	5392375	3842	Graham Creek	0.10													
349250	5392505	3843	Graham Creek		1		54	5.5	87	1	0.05	0.2	0.2	<0.1	5	<10	0.05
349250	5392505	3844	Graham Creek	0.20													
349200	5392500	3845	Graham Creek		2		87	5.5	56	1.5	0.05	0.2	0.6	<0.1	5	<10	0.05
349200	5392500	3846	Graham Creek	20													
349075	5390940	3847	Graham Creek		<1		32.5	3	27.5	1	<0.05	0.2	0.3	<0.1	<4	<10	<0.05
349075	5390940	3848	Graham Creek	0.20													
349095	5390980	3849	Graham Creek		2		52	4.5	21	1	<0.05	0.2	0.4	<0.1	<4	<10	<0.05
349095	5390980	3850	Graham Creek	0.25													
348940	5391070	3851	Graham Creek		2		24	3.5	16	1	<0.05	0.3	0.6	<0.1	<4	<10	<0.05
348940	5391070	3852	Graham Creek	0.05													
348945	5391080	3853	Graham Creek		<1		12.5	2	10.5	<0.5	<0.05	0.2	0.4	<0.1	9	<10	<0.05
348945	5391080	3854	Graham Creek	284													
348785	5391285	3855	Graham Creek		<1		5.5	1	3.5	<0.5	<0.05	0.1	0.2	<0.1	<4	<10	<0.05
348785	5391285	3856	Graham Creek	<0.05													
348720	5391325	3857	Graham Creek		3		16.5	1.5	5.5	<0.5	<0.05	0.1	0.3	<0.1	5	<10	0.05
348720	5391325	3858	Graham Creek	<0.05													
348580	5391425	3859	Graham Creek		<1		12	1.5	4	<0.5	<0.05	0.1	0.1	<0.1	16	<10	<0.05
348580	5391425	3860	Graham Creek	<0.05													
348475	5391550	3861	Graham Creek		<1		11.5	1	3	<0.5	<0.05	0.2	0.1	<0.1	<4	<10	<0.05
348475	5391550	3862	Graham Creek	<0.05													
348580	5391400	3863	Graham Creek		2		10	1.5	4.5	0.5	<0.05	0.2	0.6	<0.1	<4	<10	<0.05
348580	5391400	3864	Graham Creek	0.10													
348435	5391355	3865	Graham Creek		<1		11.5	1.5	3.5	0.5	<0.05	0.2	0.5	<0.1	8	<10	0.05
348435	5391355	3866	Graham Creek	<0.05													
348390	5391340	3867	Graham Creek		2		38	3.5	9.5	0.5	<0.05	0.2	0.9	0.1	<4	<10	<0.05
348390	5391340	3868	Graham Creek	0.15													
348745	5391335	3869	Graham Creek		<1		20	2	8.5	<0.5	<0.05	0.2	0.2	<0.1	<4	<10	<0.05
348745	5391335	3870	Graham Creek	59													
348760	5391420	3871	Graham Creek		<1		87	6.5	26.5	1	<0.05	0.3	0.5	<0.1	<4	<10	0.05
348760	5391420	3872	Graham Creek	0.20													
348740	5391425	3873	Graham Creek		<1		280	2	160	<0.5	<0.05	0.1	0.1	<0.1	5	<10	0.05
348740	5391425	3874	Graham Creek	1.95													
348675	5391575	3875	Graham Creek		<1		18.5	2	6	<0.5	<0.05	0.1	0.2	<0.1	13	<10	0.05
348675	5391575	3876	Graham Creek	<0.05													

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Eastings	Northing	Sample	Prospect	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W	Hg
			Units	ug	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			DL	0.05	1	1	0.5	0.5	0.5	0.5	0.05	0.1	0.1	0.1	4	10	0.05
348660	5391625	3877	Graham Creek		1		23	2	3	<0.5	<0.05	0.1	0.2	<0.1	<4	<10	<0.05
348660	5391625	3878	Graham Creek	25													
348670	5391780	3879	Graham Creek		<1		24.5	2.5	4.5	<0.5	<0.05	0.2	0.2	<0.1	8	<10	<0.05
348670	5391780	3880	Graham Creek	<0.05													
349800	5390880	3881	Graham Creek		3		98	11.5	68	4	0.05	0.4	0.9	0.1	<4	<10	0.15
349800	5390880	3882	Graham Creek	<0.05													
349590	5390775	3883	Graham Creek		<1		15.5	6	15.5	5.5	0.1	0.6	0.6	0.1	<4	<10	<0.05
349590	5390775	3884	Graham Creek	0.15													
349570	5390770	3885	Graham Creek		45	8	210	18.5	135	4	0.15	0.4	1.4	0.1	7	<10	0.15
349570	5390770	3886	Graham Creek	0.15													
349390	5390690	3887	Graham Creek		<1	4	37	9	36	6.5	0.15	0.6	0.8	0.1	<4	<10	<0.05
349390	5390690	3888	Graham Creek	<0.05													
349265	5390675	3889	Graham Creek		15	I.S.	650	18.5	340	5.5	0.65	0.4	2.2	0.2	<4	15	0.15
349265	5390675	3890	Graham Creek	L.N.R.													
342640	5382670	5401	Lefroy Ridge East		7	12	35.5	32.5	78	3.5	0.3	2.5	0.8	0.1	<4	<10	0.2
342640	5382670	5402	Lefroy Ridge East	232													
342655	5382660	5403	Lefroy Ridge East		3	<1	29	21.5	61	1.5	0.15	0.9	0.8	<0.1	<4	<10	0.05
342655	5382660	5404	Lefroy Ridge East	3800													
342690	5382315	5405	Lefroy Ridge East		<1		72	48	190	4	0.2	1.3	1.2	0.1	<4	<10	0.1
342690	5382315	5406	Lefroy Ridge East	11													
342675	5382300	5407	Lefroy Ridge East		<1		36.5	28	73	2	0.1	0.8	1.1	<0.1	<4	<10	0.25
342675	5382300	5408	Lefroy Ridge East	7.00													
342510	5382390	5409	Lefroy Ridge East		5		53	17.5	59	1.5	0.1	0.4	0.9	<0.1	6	15	0.15
342510	5382390	5410	Lefroy Ridge East	1.90													
341680	5382015	5411	Lefroy Ridge East		<1		40	18.5	85	1	0.05	0.3	1	0.1	<4	<10	0.1
341680	5382015	5412	Lefroy Ridge East	13													
341630	5381990	5413	Lefroy Ridge East		<1		11	11.5	30	0.5	0.05	0.4	0.9	<0.1	5	<10	0.1
341630	5381990	5414	Lefroy Ridge East	49													
341835	5381830	5415	Lefroy Ridge East		6		14.5	8.5	43	<0.5	<0.05	0.3	0.8	<0.1	<4	<10	0.1
341835	5381830	5416	Lefroy Ridge East	0.60													
342000	5381760	5417	Lefroy Ridge East		<1		10.5	6	19.5	<0.5	<0.05	0.2	0.4	<0.1	7	<10	0.1
342000	5381760	5418	Lefroy Ridge East	0.30													
342025	5381750	5419	Lefroy Ridge East		<1		21	11.5	56	0.5	<0.05	0.2	0.6	<0.1	5	<10	0.1
342025	5381750	5420	Lefroy Ridge East	0.80													
342125	5381770	5421	Lefroy Ridge East		<1		16	9	48	0.5	<0.05	0.2	0.6	<0.1	<4	<10	0.1
342125	5381770	5422	Lefroy Ridge East	0.20													
342160	5381790	5423	Lefroy Ridge East		<1		36.5	15.5	125	0.5	0.05	0.2	1.1	0.1	<4	10	0.15
342160	5381790	5424	Lefroy Ridge East	0.20													
341350	5381900	5425	Lefroy Ridge East		<1		11	8	32.5	<0.5	<0.05	0.2	0.8	<0.1	6	<10	0.1
341350	5381900	5426	Lefroy Ridge East	0.20													
341375	5381830	5427	Lefroy Ridge East		<1		13	10.5	40	3	0.1	0.3	1.8	<0.1	<4	10	0.1
341375	5381830	5428	Lefroy Ridge East	0.70													
341465	5381840	5429	Lefroy Ridge East		<1		4.5	4.5	16.5	1	<0.05	0.2	0.8	<0.1	<4	<10	0.1
341465	5381840	5430	Lefroy Ridge East	0.10													
341590	5382125	5431	Lefroy Ridge East		<1		15.5	6	29	0.5	<0.05	0.2	0.7	<0.1	<4	<10	0.1
341590	5382125	5432	Lefroy Ridge East	0.30													
341575	5382110	5433	Lefroy Ridge East		28	37	20.5	10	58	1	<0.05	0.2	1.1	0.1	<4	<10	0.1
341575	5382110	5434	Lefroy Ridge East	0.20													
341600	5382425	5435	Lefroy Ridge East		<1		48	12.5	48.5	0.5	<0.05	0.3	0.5	<0.1	4	<10	0.1
341600	5382425	5436	Lefroy Ridge East	0.70													
341800	5382525	5437	Lefroy Ridge East		<1		17	7	32	2.5	0.1	0.4	0.6	<0.1	<4	<10	0.1
341800	5382525	5438	Lefroy Ridge East	0.30													
341815	5382545	5439	Lefroy Ridge East		<1		16	8	38	1	<0.05	0.2	0.5	<0.1	6	<10	0.1
341815	5382545	5440	Lefroy Ridge East	0.10													
341865	5382375	5441	Lefroy Ridge East	<0.01			15	6	37	<50	<1						
341865	5382375	5442	Lefroy Ridge East	1.50													
341860	5382350	5443	Lefroy Ridge East	<0.01			22	6	48	<50	<1						
341860	5382350	5444	Lefroy Ridge East	0.20													
341890	5382340	5445	Lefroy Ridge East	<0.01			40	8	82	<50	<1						
341890	5382340	5446	Lefroy Ridge East	0.60													
342025	5382280	5447	Lefroy Ridge East	<0.01			17	3	28	<50	<1						
342025	5382280	5448	Lefroy Ridge East	8.10													
341975	5382305	5449	Lefroy Ridge East	<0.01			30	3	38	<50	<1						
341975	5382305	5450	Lefroy Ridge East	0.80													
342120	5382475	5451	Lefroy Ridge East	<0.01			21	7	44	<50	<1						
342120	5382475	5452	Lefroy Ridge East	0.20													
342150	5382470	5453	Lefroy Ridge East		8		5	4.5	14	0.5	<0.05	0.2	0.3	<0.1	<4	<10	0.1
342150	5382470	5454	Lefroy Ridge East	2.60													
342295	5382725	5455	Lefroy Ridge East	<0.01			8	3	13	<50	<1						
342295	5382725	5456	Lefroy Ridge East	22													
342625	5382720	5457	Lefroy Ridge East		6		21.5	10.5	33	1	<0.05	0.2	0.5	<0.1	<4	15	0.1
342625	5382720	5458	Lefroy Ridge East	111													
342725	5382150	5459	Lefroy Ridge East		3		89	25.5	155	2.5	0.05	0.3	0.9	0.2	7	<10	0.1
342725	5382150	5460	Lefroy Ridge East	0.70													
342740	5382125	5461	Lefroy Ridge East		<1		22.5	7	43	0.5	<0.05	0.2	0.5	<0.1	<4	<10	0.1
342740	5382125	5462	Lefroy Ridge East	0.20													

Analabs

198070

Easting	Northing	Sample	Prospect	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W	Hg
			Units	ug	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			DL	0.05	1	1	0.5	0.5	0.5	0.5	0.05	0.1	0.1	0.1	4	10	0.05
342830	5382065	5463	Lefroy Ridge East		<1		16.5	9.5	57	1	<0.05	0.3	0.7	0.1	<4	15	0.1
342830	5382065	5464	Lefroy Ridge East	0.20													
342640	5382100	5465	Lefroy Ridge East		2		29	8.5	45	0.5	0.05	0.3	0.7	<0.1	<4	10	0.1
342640	5382100	5466	Lefroy Ridge East	0.40													
342250	5382040	5467	Lefroy Ridge East		1		18	6.5	35.5	<0.5	<0.05	0.2	0.5	<0.1	5	<10	0.1
342250	5382040	5468	Lefroy Ridge East	0.30													
342225	5381885	5469	Lefroy Ridge East		<1		29	7.5	55	0.5	<0.05	0.2	1.1	0.1	<4	<10	0.1
342225	5381885	5470	Lefroy Ridge East	1.90													
342750	5383150	5471	Lefroy Ridge East		2		37	15	48.5	1.5	0.05	0.2	0.4	<0.1	6	<10	0.1
342750	5383150	5472	Lefroy Ridge East	0.60													
342580	5383225	5473	Lefroy Ridge East		2	2	42	19.5	100	1.5	0.05	0.2	0.3	<0.1	8	<10	0.1
342580	5383225	5474	Lefroy Ridge East	390													
342570	5383235	5475	Lefroy Ridge East		<1		43	14	57	1	0.05	0.2	0.7	<0.1	7	<10	0.1
342570	5383235	5476	Lefroy Ridge East	37													
		5477	No Sample														
342570	5383235	5478	Lefroy Ridge East	470													
343030	5382920	5479	Lefroy Ridge East		<1		45.5	16.5	105	1	0.05	0.2	0.4	<0.1	<4	<10	0.1
343030	5382920	5480	Lefroy Ridge East	5200													
342310	5381585	5481	Lefroy Ridge East		<1		24.0	23.0	72	0.5	0.05	0.2	0.9	0.1	<4	<10	0.1
342310	5381585	5482	Lefroy Ridge East	NA													
342290	5381575	5483	Lefroy Ridge East		<1		7.0	3.0	14.0	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10	0.05
342290	5381575	5484	Lefroy Ridge East	0.40													
341910	5381525	5485	Lefroy Ridge East		<1		31.0	8.5	67	2.5	0.10	0.3	1.6	0.1	<4	<10	0.1
341910	5381525	5486	Lefroy Ridge East	0.10													
341785	5381540	5487	Lefroy Ridge East		2		16.0	7.0	24.0	1.0	<0.05	0.2	0.7	0.1	<4	<10	0.1
341785	5381540	5488	Lefroy Ridge East	0.25													
341725	5381525	5489	Lefroy Ridge East		19	18	11.0	5.0	20.0	0.5	<0.05	0.2	0.5	<0.1	5	<10	0.1
341725	5381525	5490	Lefroy Ridge East	0.85													
341675	5381580	5491	Lefroy Ridge East		<1		11.5	5.5	26.0	<0.5	<0.05	0.1	0.4	<0.1	12	<10	0.1
341675	5381580	5492	Lefroy Ridge East	12													
343085	5383375	5493	Lefroy Ridge East		9		31.5	9.0	64	1.0	<0.05	0.2	0.8	0.1	5	<10	0.1
343085	5383375	5494	Lefroy Ridge East	0.50													
343230	5383500	5495	Lefroy Ridge East		5		46.5	13.5	76	1.0	<0.05	0.2	0.8	0.1	5	<10	0.1
343230	5383500	5496	Lefroy Ridge East	1.15													
343475	5383200	5497	Lefroy Ridge East		5		84	30.0	125	3.0	0.05	0.3	1.4	0.1	5	<10	0.1
343475	5383200	5498	Lefroy Ridge East	0.90													
343325	5382900	5499	Lefroy Ridge East		2		59	18.5	120	1.0	<0.05	0.3	0.5	0.2	<4	<10	0.15
343325	5382900	5500	Lefroy Ridge East	5.50													
342260	5383240	5585	Lefroy Ridge East		1		11.0	6.5	20.0	<0.5	<0.05	0.1	0.3	<0.1	<4	<10	0.1
342260	5383240	5586	Lefroy Ridge East	34													
342080	5383325	5587	Lefroy Ridge East		5		15.5	7.0	23.5	1.0	<0.05	0.1	1.0	<0.1	<4	<10	0.15
342080	5383325	5588	Lefroy Ridge East	0.25													
342010	5383225	5589	Lefroy Ridge East		<1		10.0	4.0	15.0	<0.5	<0.05	<0.1	0.7	<0.1	<4	<10	0.1
342010	5383225	5590	Lefroy Ridge East	30													
342035	5383200	5591	Lefroy Ridge East		<1		5.0	2.5	5.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10	0.15
342035	5383200	5592	Lefroy Ridge East	0.35													
341790	5382740	5593	Lefroy Ridge East		3		4.5	1.5	5.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10	0.1
341790	5382740	5594	Lefroy Ridge East	8.30													
342025	5382750	5595	Lefroy Ridge East		5		5.0	1.0	3.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10	0.1
342025	5382750	5596	Lefroy Ridge East	43													
342725	5382725	5597	Lefroy Ridge East		<1		10.5	7.5	37.5	<0.5	<0.05	0.1	0.4	0.1	5	<10	0.05
342725	5382725	5598	Lefroy Ridge East	46													
343400	5383075	5599	Lefroy Ridge East		3		39.0	16.0	86	1.5	<0.05	0.2	0.5	<0.1	<4	<10	0.1
343400	5383075	5600	Lefroy Ridge East	0.30													
341588	5383600	6053	Lefroy Ridge East	4.00													
341588	5383600	6054	Lefroy Ridge East		2		10.5	5.0	21.0	<0.5	<0.05	0.1	0.3	<0.1	4	<10	0.1
341629	5383588	6055	Lefroy Ridge East	0.15													
341629	5383588	6056	Lefroy Ridge East		14		44.0	9.5	50	0.5	<0.05	0.2	1.4	<0.1	<4	<10	0.1
341691	5383710	6057	Lefroy Ridge East	0.10													
341691	5383710	6058	Lefroy Ridge East		74	74	17.0	6.0	30.0	1.5	<0.05	0.1	0.6	<0.1	<4	<10	0.1
341619	5383685	6059	Lefroy Ridge East	NA													
341619	5383685	6060	Lefroy Ridge East		1	1	4.0	1.5	6.5	<0.5	<0.05	<0.1	0.2	<0.1	5	10	0.05
341443	5383675	6061	Lefroy Ridge East	20													
341443	5383675	6062	Lefroy Ridge East		<1		3.0	1.0	5.0	<0.5	<0.05	<0.1	0.2	<0.1	5	<10	0.05

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.99

APPENDIX 4

**ROCK CHIP AND CHANNEL SAMPLE NUMBERS, AMG CO-ORDINATES,
DESCRIPTIONS AND ANALYTIC DATA**

- 4A Rock chips - Analyses
- 4B Channel Samples from Lucy Spur Adits - Analyses
- 4C Rock chips - descriptions. Also see Appendix 1

Laboratory Processing

Analabs

Dry, jaw crush, fine pulverize, ringmill (SO33); Au by 30gm fire assay (F630); triple acid digest (G102) with Cu, Pb, Zn, Ag, As, Bi, Mo by AAS (A102) As by hydride generation AAS (H102); volatile element digest (G109) with Sb by hydride generation AAS (H109); U, V by XRF (X401).

4A: Rock chip samples																
Eastling	Northing	Sample	Prospect	Au	Au(R)	Au(R2)	Cu	Pb	Zn	Ag	As	Sb	Bi	Mo	U	V
			Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			DL	0.01	0.01	0.01	2	3	2	1	1	0.5	10	5	3	5
347185	5388055	2713	Lucy Spur	<0.01	<0.01		17	<3	8	4	<1	<0.5				
347410	5387080	2773	Lucy Spur	<0.01	-		3	<3	14	<1	<1	<0.5				
347235	5386940	2774	Lucy Spur	<0.01	-		30	<3	15	1	<1	<0.5				
347235	5386940	2775	Lucy Spur	<0.01	-		2	<3	4	<1	<1	<0.5				
347260	5386995	2776	Lucy Spur	<0.01	-		8	<3	2	<1	<1	<0.5				
347260	5387005	2777	Lucy Spur	<0.01	-		2	<3	2	<1	<1	<0.5				
347265	5387135	2778	Lucy Spur	<0.01	-		1425	21	63	1	8	<0.5				
346976	5384676	2901	Lucy Spur	0.01	<0.01		43	7	39	1	<1	0.6				
346976	5384676	2902	Lucy Spur	<0.01	<0.01		8	<3	3	<1	<1	<0.5				
347415	5387000	2903	Lucy Spur	<0.01	-		4	<3	12	1	<1					
347260	5386860	2904	Lucy Spur	<0.01	-		5	<3	5	<1	<1					
437220	5386860	2905	Lucy Spur	<0.01	-		24	<3	19	1	<1					
347125	5386765	2906	Lucy Spur	<0.01	-		7	<3	20	1	2					
347000	5386670	2907	Lucy Spur	<0.01	0.01		106	3	2	<1	<1					
346975	5386660	2908	Lucy Spur	0.02	0.03		3	<3	17	<1	2					
346915	5386665	2909	Lucy Spur	0.01	-		24	18	27	2	<1					
347130	5386700	2910	Lucy Spur	0.01	-		6	4	17	1	6					
347270	5386540	2911	Lucy Spur	<0.01	<0.01		6	4	2	<1	2					
347365	5386470	2912	Lucy Spur	<0.01	-		3	<3	2	<1	<1					
347390	5386460	2913	Lucy Spur	<0.01	-		4	4	2	<1	1					
347795	5386450	2914	Lucy Spur	<0.01	-		6	<3	8	<1	<1					
347200	5386840	2915	Lucy Spur	<0.01	-		5	4	3	<1	<1					
348150	5386185	2916	Lucy Spur	<0.01	-		5	7	6	<1	<1					
346895	5385990	2917	Lucy Spur	<0.01	-		121	<3	11	<1	1					
347205	5386000	2918	Lucy Spur	<0.01	-		2	<3	2	<1	<1					
346890	5385875	2919	Lucy Spur	<0.01	-		655	4	42	1	10					
346460	5386005	2920	Lucy Spur	<0.01	-		15	<3	81	1	<1					
346385	5386430	2921	Lucy Spur	<0.01	-		206	8	67	1	<1					
346385	5386450	2922	Lucy Spur	<0.01	-		6	<3	57	1	<1					
346390	5386480	2923	Lucy Spur	0.01	-		51	<3	95	1	3					
346410	5386575	2924	Lucy Spur	<0.01	-		38	16	89	1	7					
346310	5385835	2925	Lucy Spur	<0.01	-		71	4	96	1	<1					
345320	5386150	2926	Lucy Spur	0.01	-		71	12	76	1	1					
345280	5386125	2927	Lucy Spur	<0.01	-		60	10	69	1	7					
345480	5384670	2928	Lucy Spur	0.01	-		194	<3	225	2	9					
345665	5384500	2929	Lucy Spur	<0.01	-		35	<3	138	1	2					
347029	5384672	2930	Lucy Spur	0.03	-		47	<3	5	2	13					
347028	5384674	2931	Lucy Spur	0.02	-		67	<3	3	5	46					
347025	5384674	2932	Lucy Spur	1.64	-		15	<3	<2	1	6					
347023	5384676	2933	Lucy Spur	<0.01	-		18	<3	<2	<1	24					
347020	5384678	2934	Lucy Spur	0.57	0.49		37	<3	<2	<1	64					
347021	5384678	2935	Lucy Spur	0.24	-		23	<3	<2	4	106					
347022	5384678	2936	Lucy Spur	0.04	0.03		49	5	<2	1	142					
347021	5384684	2937	Lucy Spur	2.25	-		78	3	3	2	35					
347022	5384685	2938	Lucy Spur	0.66	-		39	<3	<2	<1	10					
347016	5384680	2939	Lucy Spur	0.03	-		63	4	<2	1	3					
347016	5384667	2940	Lucy Spur	102.4	100.1		526	10	<2	13	121					
347017	5384671	2941	Lucy Spur	0.05	-		75	10	<2	2	6					
347017	5384671	2942	Lucy Spur	1.85	-		13	5	<2	<1	2					
347017	5384677	2943	Lucy Spur	0.49	0.52		531	<3	65	4	63					
347017	5384678	2944	Lucy Spur	<0.01	-		31	4	<2	<1	5					
347004	5384668	2945	Lucy Spur	<0.01	-		13	4	<2	<1	5					
347004	5384665	2946	Lucy Spur	<0.01	-		3	7	10	<1	<1					
347000	5384665	2947	Lucy Spur	<0.01	-		7	6	4	<1	<1					
346997	5384664	2948	Lucy Spur	<0.01	-		6	14	<2	<1	2					
346996	5384663	2949	Lucy Spur	<0.01	-		4	9	<2	<1	<1					
346994	5384664	2950	Lucy Spur	<0.01	-		5	9	<2	<1	2					
346994	5384664	2951	Lucy Spur	<0.01	-		4	12	<2	<1	2					
346975	5384663	2952	Lucy Spur	<0.01	-		88	13	6	1	11					
346979	5384669	2953	Lucy Spur	<0.01	-		50	9	6	<1	<1					
346974	5384675	2965	Lucy Spur	<0.01	-		25	3	3	<1	1					
346974	5384675	2966	Lucy Spur	0.74	-		13	<3	12	<1	3					
346974	5384674	2967	Lucy Spur	1.51	1.3		26	4	3	<1	1					
346760	5384725	2968	Lucy Spur	0.01	-		<2	6	<2	<1	<1					
346810	5384680	2969	Lucy Spur	0.01	-		93	<3	5	<1	6					
346955	5385465	2980	Lucy Spur	<0.01	-	-	2	<3	3	<1	2					
347200	5385105	2981	Lucy Spur	<0.01	-	-	26	<3	4	<1	<1					
347280	5385170	2982	Lucy Spur	<0.01	<0.01	-	19	<3	4	<1	2					
348100	5384810	2983	Lucy Spur	<0.01	-	-	4	<3	13	<1	3					

Eastings	Northings	Sample	Prospect	Au	Au(R)	Au(R2)	Cu	Pb	Zn	Ag	As	Sb	Bi	Mo	U	V
			Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			DL	0.01	0.01	0.01	2	3	2	1	1	0.5	10	5	3	5
347600	5384110	2984	Lucy Spur	<0.01	-	-	3	<3	5	<1	1					
347560	5383135	2985	Lucy Spur	<0.01	<0.01	-	4	<3	2	<1	1					
347530	5383895	2986	Lucy Spur	<0.01	-	-	2	<3	7	<1	6					
347485	5383745	2987	Lucy Spur	<0.01	-	-	2	<3	7	<1	1					
347445	5383750	2988	Lucy Spur	<0.01	-	-	7	<3	9	<1	1					
346984	5385434	2989	Lucy Spur	<0.01	<0.01	-	18	3	3	<1	<1					
347010	5384675	3602	Lucy Spur	0.02	-	-	8	<3	9	1	13					
347010	5384675	3603	Lucy Spur	0.1	0.12	-	5	3	20	1	3					
347010	5384675	3604	Lucy Spur	0.03	-	-	15	<3	25	1	3					
346795	5384665	3605	Lucy Spur	0.15	-	-	79	<3	6	<1	17					
346795	5384665	3607	Lucy Spur	0.06	0.07	-	25	3	3	<1	8					
346790	5384665	3608	Lucy Spur	0.06	-	-	30	4	4	<1	8					
346780	5384670	3609	Lucy Spur	0.12	-	-	41	65	6	<1	43					
349500	5388850	3610	Rocky River	<0.01	-	-	19	4	54	<1	<1					
349505	5388885	3611	Rocky River	<0.01	<0.01	-	36	8	208	1	<1					
349515	5388915	3612	Rocky River	0.27	0.29	-	21	9	198	1	<1					
348975	5392350	3613	Rocky River	<0.01	0.01	-	66	7	69	3	1					
348940	5391880	3614	Rocky River	<0.01	-	-	52	3	203	2	<1					
348940	5391725	3615	Rocky River	0.04	0.03	-	260	18	69	1	7					
349450	5392100	3616	Rocky River	<0.01	<0.01	-	10	6	65	1	<1					
349350	5392175	3617	Rocky River	0.05	0.05	-	1489	9	201	1	52					
349225	5392425	3618	Rocky River	0.05	0.04	-	1993	21	345	2	31					
349025	5391050	3619	Rocky River	<0.01	-	-	6	<3	23	<1	<1					
349025	5391051	3620	Rocky River	<0.01	-	-	25	<3	63	3	<1					
349000	5391050	3621	Rocky River	<0.01	<0.01	-	14	<3	84	3	<1					
349000	5391051	3622	Rocky River	<0.01	-	-	17	<3	10	<1	<1					
348650	5391740	3623	Rocky River	<0.01	-	-	29	<3	25	1	<1					
348660	5391825	3624	Rocky River	<0.01	<0.01	-	4	<3	5	<1	<1					
348675	5391850	3625	Rocky River	<0.01	-	-	3	<3	26	<1	<1					
346660	5384150	3626	Lucy Spur	<0.01	<0.01	-	570	17	150	<1	52	2				
347115	5384160	3627	Lucy Spur	<0.01	<0.01	-	28	<3	2	<1	4	<0.5				
346990	5383675	3628	Lucy Spur	<0.01	<0.01	-	7	<3	2	<1	2	<0.5				
346975	5383575	3629	Lucy Spur	<0.01	-	-	6	<3	5	<1	<1	<0.5				
346920	5383510	3630	Lucy Spur	<0.01	-	-	4	11	10	<1	<1	<0.5				
346665	5383110	3631	Lucy Spur	<0.01	-	-	4	<3	10	<1	2	1				
346620	5383490	3632	Lucy Spur	<0.01	-	-	3	<3	2	<1	1	<0.5				
346620	5383665	3633	Lucy Spur	<0.01	-	-	198	733	185	2	1759	44				
346620	5383740	3634	Lucy Spur	<0.01	-	-	7	<3	2	<1	<1	1				
346745	5384545	3635	Lucy Spur	0.01	<0.01	-	5	<3	X	<1	2	<0.5				
346860	5384630	3636	Lucy Spur	<0.01	-	-	8	<3	2	<1	<1	<0.5				
347080	5384655	3637	Lucy Spur	<0.01	-	-	3	<3	7	<1	<1	<0.5				
346370	5382970	3638	Lucy Spur	<0.01	-	-	<2	7	9	<1	<1	<0.5				
346875	5385250	3639	Lucy Spur	<0.01	-	-	6	6	62	<1	<1	<0.5				
347050	5385150	3640	Lucy Spur	<0.01	-	-	5	4	7	<1	<1	<0.5				
346985	5385435	3644	Lucy Spur	0.07	0.05	-	5	<3	8	<1	<1	<0.5				
346985	5385434	3645	Lucy Spur	0.07	0.07	-	7	<3	8	<1	1	<0.5				
346975	5385460	3646	Lucy Spur	0.01	<0.01	-	4	<3	9	<1	<1	<0.5				
347085	5384650	4003	Lucy Spur	NA			NA	NA	NA	NA	NA	NA				
347060	5384250	4004	Lucy Spur	0.01	-	-	4	<3	15	<1	<1	<0.5				
346700	5384050	4005	Lucy Spur	0.01	-	-	355	6	83	<1	<1	<0.5				
346665	5384150	4006	Lucy Spur	NA			NA	NA	NA	NA	NA	NA				
347020	5385430	4007	Lucy Spur	0.03	0.02	-	15	<3	7	<1	<1	1				
347020	5385430	4008	Lucy Spur	0.07	0.06	-	22	7	11	<1	<1	<0.5				
347005	5385420	4009	Lucy Spur	0.07	0.05	-	7	11	7	<1	2	<0.5				
347005	5385420	4010	Lucy Spur	8.64	5.83	37.4	3	8	8	<1	<1	1				
347010	5385425	4011	Lucy Spur	0.03	<0.01	-	3	5	7	<1	<1	2				
346960	5385400	4012	Lucy Spur	0.05	-	-	5	<3	7	<1	<1	4				
346790	5384680	4013	Lucy Spur	0.01	-	-	51	5	84	<1	<1	2				
346790	5384680	4014	Lucy Spur	0.07	0.06	-	12	7	53	<1	7	<0.5				
346655	5385150	4015	Lucy Spur	0.01	-	-	<2	<3	71	<1	<1	<0.5				
345690	5385150	4016	Lucy Spur	0.08	0.08	-	42	141	1685	<1	<1	<0.5				
345755	5385205	4017	Lucy Spur	<0.01	<0.01	-	289	<3	101	2	7	<0.5				
345805	5385235	4018	Lucy Spur	<0.01	-	-	108	10	88	1	1	<0.5				
345870	5385250	4019	Lucy Spur	<0.01	<0.01	-	99	<3	76	1	<1	2				
345820	5385240	4020	Lucy Spur	<0.01	<0.01	-	55	4	154	2	<1	2				
346985	5384685	4021	Lucy Spur	<0.01	<0.01	-	<2	10	7	<1	<1	1				
346982	5384685	4022	Lucy Spur	<0.01	-	-	4	9	3	<1	2	5				
345800	5385645	4023	Lucy Spur	<0.01	-	-	18	3	100	1	1	<0.5				
345825	5385620	4024	Lucy Spur	<0.01	<0.01	-	12	<3	113	1	<1	<0.5				
345875	5385605	4025	Lucy Spur	<0.01	-	-	25	12	140	1	2	<0.5				
345895	5385600	4026	Lucy Spur	<0.01	-	-	77	79	242	1	1	<0.5				

Easting	Northing	Sample	Prospect Units	Au ppm	Au(R) ppm	Au(R2) ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Bi ppm	Mo ppm	U ppm	V ppm
			DL	0.01	0.01	0.01	2	3	2	1	1	0.5	10	5	3	5
345920	5385600	4027	Lucy Spur	<0.01	-		91	8	75	1	1	<0.5				
345950	5385655	4028	Lucy Spur	<0.01	-		93	4	72	1	<1	<0.5				
345955	5385720	4029	Lucy Spur	<0.01	<0.01		197	15	158	2	<1	<0.5				
345955	5385730	4030	Lucy Spur	0.03	0.03		444	24	84	2	6	<0.5				
345885	5385850	4031	Lucy Spur	0.01	<0.01		169	<3	233	2	3	<0.5				
346315	5385800	4032	Lucy Spur	0.01	<0.01		205	12	84	1	1	<0.5				
345555	5384915	4033	Lucy Spur	<0.01	-		100	5	332	<1	<1	<0.5	<10	<5	<3	524
345555	5384915	4034	Lucy Spur	<0.01	-		14	5	29	<1	2	<0.5	<10	<5	<3	164
345690	5385105	4035	Lucy Spur	<0.01	-		4	4	84	<1	3	<0.5	<10	<5	<3	239
345830	5385075	4036	Lucy Spur	<0.01	-		10	11	229	<1	3	<0.5	<10	<5	<3	445
345805	5385635	4037	Lucy Spur	<0.01	-		125	8	222	1	2	<0.5	<10	<5	<3	678
345800	5385640	4038	Lucy Spur	<0.01	-		179	7	212	1	3	<0.5	<10	<5	4	370
345560	5386210	4039	Lucy Spur	<0.01	<0.01		15	17	46	<1	1	<0.5	<10	<5	<3	133
342620	5382740	4040	Lefroy Ridge East	<0.01	-		104	131	66	<1	4	<0.5	<10	<5	<3	510
343125	5382955	4041	Lefroy Ridge East	<0.01	-		24	11	182	<1	<1	<0.5	<10	<5	<3	341
343125	5382955	4042	Lefroy Ridge East	<0.01	-		28	25	176	2	1	<0.5	<10	<5	<3	474
343125	5382955	4043	Lefroy Ridge East	<0.01	-		16	60	33	1	5	<0.5	<10	<5	5	328
342825	5382505	4044	Lefroy Ridge East	<0.01	-		334	6	260	1	1	<0.5	<10	6	<3	607
242690	5382230	4045	Lefroy Ridge East	<0.01	-		12	<3	337	1	2	<0.5	<10	6	<3	254
242690	5382270	4046	Lefroy Ridge East	<0.01	-		80	5	114	1	4	<0.5	<10	<5	6	413
342680	5382515	4047	Lefroy Ridge East	<0.01	-		151	12	218	1	10	<0.5	<10	<5	<3	428
342660	5382545	4048	Lefroy Ridge East	<0.01	-		15	23	22	<1	2	<0.5	<10	<5	<3	154
342650	5382645	4049	Lefroy Ridge East	<0.01	-		48	27	38	<1	4	<0.5	<10	<5	4	203
342690	5382675	4050	Lefroy Ridge East	<0.01	-		37	18	83	<1	3	<0.5	<10	<5	<3	230
343425	5379550	4051		0.01	-		22	11	1927	<1	6	<0.5	<10	6	<3	14
343425	5379550	4052		<0.01	<0.01		9	6	15	<1	11	<0.5	<10	9	<3	121
4B: Channel samples																
Easting	Northing	Sample	Prospect Units	Au ppm	Au(R) ppm	Au(R2) ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm				
			DL	0.01	0.01	0.01	2	3	2	1	1	0.5				
346984	5384664	2954	Lucy Spur	<0.01	-		28	11	9	<1	2	N/A				
346983	5384665	2955	Lucy Spur	<0.01	-		34	8	4	<1	<1	N/A				
346981	5384667	2956	Lucy Spur	<0.01	-		65	10	5	1	<1	N/A				
346979	5384670	2957	Lucy Spur	<0.01	-		60	9	6	<1	<1	N/A				
346978	5384672	2958	Lucy Spur	0.02	0.03		360	8	11	<1	6	N/A				
346979	5384675	2959	Lucy Spur	<0.01	-		52	14	5	<1	<1	N/A				
346979	5384676	2960	Lucy Spur	0.01	-		30	8	2	<1	<1	N/A				
346980	5384679	2961	Lucy Spur	<0.01	<0.01		18	8	<2	<1	8	N/A				
346981	5384680	2962	Lucy Spur	0.02	-		22	6	<2	<1	5	N/A				
346979	5384681	2963	Lucy Spur	<0.01	-		63	8	10	<1	6	N/A				
346977	5384680	2964	Lucy Spur	0.04	-		37	8	5	<1	4	N/A				
346945	5385500	2975	Lucy Spur	<0.01	<0.01	-	4	<3	6	<1	2	N/A				
346944	5385500	2976	Lucy Spur	<0.01	<0.01	-	4	3	9	<1	<1	N/A				
346943	5385500	2977	Lucy Spur	<0.01	-	-	2	<3	5	<1	2	N/A				
347004	5385445	2990	Lucy Spur	<0.01	-	-	4	<3	5	<1	<1	N/A				
347003	5385443	2991	Lucy Spur	<0.01	0.01	-	4	<3	4	<1	1	N/A				
347000	5385442	2992	Lucy Spur	<0.01	<0.01	-	3	<3	<2	<1	1	N/A				
346998	5385441	2993	Lucy Spur	6.27	2.6	15.9	5	<3	3	<1	1	N/A				
346997	5385440	2994	Lucy Spur	<0.01	<0.01	-	4	3	<2	<1	<1	N/A				
346995	5385438	2995	Lucy Spur	<0.01	-	-	4	3	7	1	1	N/A				
346952	5385424	2996	Lucy Spur	<0.01	-	-	13	3	6	1	2	N/A				
346954	5385425	2997	Lucy Spur	0.06	0.06	-	9	<3	3	<1	1	N/A				
346956	5385426	2998	Lucy Spur	0.05	0.04	-	7	<3	3	1	1	N/A				
346957	5385428	2999	Lucy Spur	1.03	0.97	-	18	<3	3	1	2	N/A				
346958	5385430	3000	Lucy Spur	0.1	-	-	29	<3	8	1	3	N/A				
347000	5385442	3641	Lucy Spur	0.01	0.01	-	3	3	8	<1	<1	1				
346998	5385441	3642	Lucy Spur	0.33	4.65	0.8	8	6	24	<1	<1	<0.5				
346997	5385440	3643	Lucy Spur	0.01	-	-	4	4	8	<1	<1	2				

4C Rock chips. Also see Appendix 1.	
Sample	Description
4004	Unweathered, greyish-green quartz+albite+muscovite+chlorite schist.
4005	Strongly weathered amphibolite with disseminated magnetite.
4006	Hard, pale, quartzite with abundant pyrite.
4007	Mullock. Euhedral quartz with limonitic vugs.
4008	Mullock. Equigranular, commonly euhedral quartz, limonite.
4009	Weathered mullock. Equigranular (1-3mm) quartz rock with vugs of euhedral quartz, interstitial limonite.
4010	Weathered mullock. Coarse quartz (to 7mm), some euhedral, interstitial limonite.
4011	Boudin with dominant pink carbonate.
4012	Weathered. Granular quartz (1-5mm), some euhedral, interstitial limonite.
4013	Milky quartz vein with limonite patches.
4014	Granular (1-3mm) quartz rock, massive, contains muscovite and leached cavities.
4015	Muscovite-albite-minor chlorite schist.
4016	Muscovite-albite-minor chlorite schist.
4017	Fine grained amphibolite.
4018	Ditto with disseminated magnetite (~1%).
4019	Amphibolite, no magnetite or pyrite.
4020	Weathered amphibolite with epidote, disseminated magnetite.
4021	Top adit, 12m from portal, alteration in N wall.
4022	Top adit, 15.2m from portal, veined alteration.
4023	Amphibolite, no magnetite.
4024	Green-grey muscovite schist.
4025	Amphibolite.
4026	Amphibolite.
4027	Amphibolite.
4028	Amphibolite with magnetite.
4029	Amphibolite - trace of pyrite, ?chalcopyrite on fractures.
4030	Amphibolite with magnetite (<1%), irregular quartz veining with pyrite, ?chalcopyrite, limonite.
4031	Amphibolite with magnetite.
4032	Albite-quartz-muscovite schist with disseminated pyrite.
4033	Amphibolite.
4034	Fine grained muscovite schist.
4035	Fine grained grey muscovite schist.
4036	Schistose amphibolite with <1% magnetite.
4037	Amphibolite with 3-5% magnetite.
4038	Weathered albite-muscovite-minor quartz schist.
4039	Weathered muscovite quartz schist.
4040	Partially weathered mafic schist.
4041	Albite-muscovite schist.
4042	Amphibolite with 1-2% magnetite.
4043	Very fine grained, massive buff, quartzose, ?igneous with disseminated black mineral.

4044	Albite-muscovite-?chlorite/amphibole schist.
4045	Albite-muscovite schist.
4046	Unusually massive mafic rock with coarse, relict texture - metagabbro.
4047	Fine grained meta mafic.
4048	Very fine grained, massive, felsic rock with milky quartz veins.
4049	Very fine grained, massive, felsic rock.
4050	Muscovite schist with leached, open-space quartz veins.
4051	Fine grained, granular quartz rock (?silicified) with abundant pyrite.
4052	Carbonaceous metasilstone with abundant pyrite.

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.99

APPENDIX 5

REGIONAL STREAM SEDIMENT SAMPLE NUMBERS, AMG CO-ORDINATES AND ANALYTICAL DATA CONSISTING OF:

- 5A -80# Au, Cu, Pb, Zn, Ag, As, Sb, Mo, Bi, U, V
- 5B -40# BCL Au, Ag, Cu
- 5C Comparison with other stream sediment sampling methods used in the Corinna Project.

Sample Types for regional program

Three types of sample were generated for each site. Representative gravel, sand and silt collected across the stream bed was sieved in the field to produce around 2kg of -40# product. A subsample of this product was later sieved to -80# at the laboratory. Pan. con. samples were derived from 9 litres of minus 4cm, active gravel collected in the stream bed. The pan. con. samples have not been analysed.

Laboratory Processing

Analabs

Dry, pulverize, ringmill -40# sample (S033), ditto for subsample plus sieve to -80#; Au, Ag, Cu in -40# by 24hrs cyanide leach, solvent extraction, carbon rod (B689); Au in -80# by 30gm fire assay (F630), triple acid digest of -80# (G102) with Cu, Pb, Zn, Ag, As, Bi, Mo by AAS (A102) As by hydride generation AAS, volatile element digest (G109) with As, Sb by hydride generation AAS (H109); U, V by XRF (X401).

5A: -80# fire assay/acid digest/XRF														
Easting	Northing	Sample	Prospect	Au	Cu	Pb	Zn	Ag	As	Sb	Mo	Bi	U	V
			Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			DL	0.01	2	3	2	1	50	0.5	5	10	3	5
									1					
346900	5392800	5103		0.05	9	7	15	<1	<50	<0.05	<5	<10	<3	110
347100	5392675	5106		<0.01	4	<3	10	<1	<50	<0.05	<5	<10	<3	37
347275	5393050	5109		<0.01	2	<3	5	<1	<50	<0.05	<5	<10	<3	14
347350	5393050	5112		<0.01	2	<3	9	<1	<50	<0.05	<5	<10	<3	26
347975	5393475	5115		<0.01	2	<3	5	<1	<50	<0.05	<5	<10	<3	28
345625	5397200	5118		<0.01	20	5	43	<1	<50	<0.05	<5	<10	<3	139
346300	5396600	5121		<0.01	19	5	39	<1	<50	<0.05	<5	<10	<3	145
346425	5392150	5124		<0.01	26	10	43	<1	<50	<0.05	<5	<10	<3	135
345075	5391950	5127		<0.01	10	9	44	<1	<50	<0.05	<5	<10	<3	195
345100	5392100	5130		<0.01	9	4	22	<1	<50	<0.05	<5	<10	<3	72
346650	5397075	5133		<0.01	15	<3	31	<1	<50	<0.05	<5	<10	<3	174
346425	5397250	5136		<0.01	22	3	47	<1	<50	<0.05	<5	<10	7	158
5B: -40# BCL														
Easting	Northing	Sample	Prospect	Au	Ag	Cu								
			Units	ppb	ppm	ppm								
			DL	0.05	0.01	0.01								
346900	5392800	5102		11.7	<0.01	0.34								
347100	5392675	5105		0.9	<0.01	0.75								
347275	5393050	5108		0.3	<0.01	0.55								
347350	5393050	5111		25	<0.01	0.75								
347975	5393475	5114		24.5	<0.01	0.93								
345625	5397200	5117		0.5	<0.01	1.29								
346300	5396600	5120		0.6	<0.01	0.32								
346425	5392150	5123		5.69	<0.01	0.85								
345075	5391950	5126		0.48	<0.01	0.38								
345100	5392100	5129		0.46	<0.01	0.47								
346650	5397075	5132		27.2	<0.01	0.72								
346425	5397250	5135		7.96	<0.01	0.48								
347880	5387585	2820	Lucy Spur	2.4	0.7	0.5								
347880	5387575	2821	Lucy Spur	5.4	1	0.44								
348110	5386970	2822	Lucy Spur	0.2	0.5	0.39								
347560	5387025	2823	Lucy Spur	8	0.7	0.35								
347225	5386875	2824	Lucy Spur	15	1.3	0.5								
347260	5387030	2825	Lucy Spur	370	22	0.42								
347880	5387585	2845	Lucy Spur	1.0	.0036	0.068								
347880	5387575	2846	Lucy Spur	0.86	.0042	.056								
348110	5386970	2847	Lucy Spur	0.53	.0042	.059								
347560	5387025	2848	Lucy Spur	0.18	.0036	.037								
347225	5386875	2849	Lucy Spur	6.88	.0048	.048								
347260	5387030	2850	Lucy Spur	13.8	.0042	.031								
347120	5386715	2895	Lucy Spur	7.2	1.1	0.23								
347120	5386715	2896	Lucy Spur	0.24	.003	.032								
346955	5386865	2898	Lucy Spur	0.6	1	0.27								
346955	5386865	2899	Lucy Spur	0.19	.003	.035								

**5C Comparison with other stream sediment sampling methods
used in the Corinna Project.**

28.11.97

Lucy Spur, Nov. 1997: Orientation Sampling

BCL, Stream Orientation			Previous Samples	
Analabs	Amdel	Analabs	Amdel	Amdel
-40#	-40#(Minorco)	-2mm	-80#	Pan. Con.
2820	2845	2870	G2015	G2016
2821	2846	2871	G2017	G2018
2822	2847	2872	G363	G364
2823	2848	2873	G357	G358
2824	2849	2874	G353	G354
2825	2850	2875	G355	G356
2895	2896	2897	G179	G180
2898	2899	2900	G603	G604

Assay data for previous samples

Sample	Au*	Au	AuR	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
Units	microgram	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
G179		8		5	<3	8	1.5	<.05					
G180	364												
G353		8		5	.5	1	<.5	.05	<.1	.2	<.1	<4	<10
G354	3400												
G355		2		1.5	<.5	1	<.5	.1	<.1	.3	<.1	<4	<10
G356	67000												
G357		10		10	1.5	3.5	.5	.05	.1	.6	<.1	<4	<10
G358	142												
G363		6		2.5	1	.5	<.5	<.05	<.1	.5	<.1	<4	<10
G364	277												
G603		<1		5	2	3.5	<.5	<.05	.1	.3	<.1	10	<10
G604	922												
G2015		52	52	14.5	20	7.5	.5	.15	.3	.6	.6	54	<10
G2016	24												
G2017		2		3.5	2.5	9.5	<.5	<.05	.2	.4	<.1	210	<10
G2018	1.10												

Au* micrograms per 9 litres of -4cm gravel; 75µg≅5ppb
1500µg≅100ppb

Comparison

Note: 9 litres gravel \cong 15kg

Locality	Sample	Au ppb	Cu ppm	Ag ppm
1 -40#	2820	2.4	0.5	0.7
-40#	2845	1.01	0.068	0.0036
-2mm	2870	4.9	0.42	0.9
-80#	G2015	52(52)	14.5	0.15
pan.con.	G2016	24 μ g(\cong 1.6ppb)		
2 -40#	2821	5.4	0.44	1.0
-40#	2846	0.86	0.056	0.0042
-2mm	2871	0.3	0.31	0.4
-80#	G2017	2	3.5	<0.05
pan.con.	G2018	1.1 μ g(\cong 0.1ppb)		
3 -40#	2822	0.2	0.39	0.5
-40#	2847	0.53	0.059	0.0042
-2mm	2872	0.3	0.29	0.4
-80#	G363	6	2.5	<0.05
pan.con.	G364	277 μ g(\cong 18.5ppb)		
4 -40#	2823	8	0.35	0.7
-40#	2848	0.18	0.037	0.0036
-2mm	2873	1.8	0.29	0.5
-80#	G357	10	10	0.05
pan.con.	G358	142 μ g(\cong 9.5ppb)		
5 -40#	2824	15	0.50	1.3
-40#	2849	6.88	0.048	0.0048
-2mm	2874	16.5	0.24	2.1
-80#	G353	8	5	0.05
pan.con.	G354	3400(\cong 227)		
6 -40#	2825	370	0.42	22.0
-40#	2850	13.8	0.031	0.0042
-2mm	2875	450	0.27	25.5
-80#	G355	2	1.5	0.1
pan.con.	G356	67000(\cong 4467)		
7 -40#	2895	7.2	0.23	1.1
-40#	2896	0.24	0.032	0.003
-2mm	2897	1.5	0.21	0.5
-80#	G179	8	5	<0.05
pan.con.	G180	364(\cong 24.3)		
8 -40#	2898	0.6	0.27	1.0
-40#	2899	0.19	0.035	0.003
-2mm	2900	0.8	0.32	0.8
-80#	G603	<1	5	<0.05
pan.con.	G604	922(\cong 61.5)		

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APPENDIX 6

MICROSCOPE EXAMINATION OF GOLD PARTICLES IN PANNED CONCENTRATE
SAMPLES FROM THE LEFROY RIDGE EAST PROSPECT, EL43/94 CORINNA,
WESTERN TASMANIA

by

H.D. Nolan
PO Box 77, Sorell
Tasmania 7172

7.5.98

The following scales are used for describing the physical characteristics of gold grains:

CRYSTALLINITY

complete
distinct
remnant
nil

TRAVEL DAMAGE

nil
minor
moderate
major

COLOUR

pale
medium
rich

TO: NIC TURNER GOLDSTREAM MINING NL

1/3

FROM: HUGH NOLAN

DATE: 07-5-98

CORINNA PROJECT-LEFROY RIDGE

EXAMINATION OF PANNED CONCENTRATE FIELD SAMPLES. EXAMINATION
UNDERTAKEN USING AN OLYMPUS 10-40x STEREO MICROSCOPE.

SAMPLE 5402

Dominant green to brown epidote.
Moderate magnetite & mica.
Minor specular hematite & pyrite.
No Tertiary gravel heavy minerals observed.

Gold x 2 particles

1 x 2.5mm medium colour well rounded with small
protected area of distinct crystallinity
1 x 0.5mm medium colour angular form (remnant
crystallinity)

SAMPLE 5404

Dominant green to brown epidote.
Moderate magnetite & mica.
Minor specular hematite.
Trace pyrite.
No Tertiary gravel heavy minerals observed.

Gold x 4 particles

1 x 2.5mm
1 x 0.5mm
2 x 0.1mm

All gold particles of medium colour and display
distinct crystallinity on about half their
surface area. Extruding surfaces rounded.

SAMPLE 5458

2/3

Dominant green to brown epidote.
Moderate magnetite & mica.
Minor specular hematite.
No Tertiary gravel heavy minerals observed.

Gold x 7 particles

1 x 0.5mm medium colour well rounded
1 x 0.5mm medium colour remnant crystallinity
2 x 0.5mm as above
3 x 0.1mm medium colour remnant to distinct
crystallinity

SAMPLE 5472

Dominant green to brown epidote.
Significant magnetite
Minor specular hematite, mica, pyrite.
No Tertiary gravel heavy minerals observed.
No gold observed.

SAMPLE 5474

Dominant green to brown epidote.
Moderate magnetite, specular hematite, mica.
Minor pyrite.
No Tertiary gravel heavy minerals observed.

Gold x 4 particles

2 x 0.5mm medium colour angular remnant
crystallinity
1 x 0.3mm medium colour remnant to distinct
crystallinity
1 x 0.1mm medium colour remnant crystallinity

SAMPLE 5476

Dominant green to brown epidote.
Moderate magnetite, mica, specular hematite.
No Tertiary gravel heavy minerals observed.

Gold x 3 particles

1 x 0.5mm medium colour complete crystallinity
1 x 0.5mm medium colour remnant crystallinity
1 x 0.1mm medium colour remnant to distinct
crystallinity

SAMPLE 5478

3/3

Dominant green to brown epidote.
Moderate magnetite, mica.
Minor pyrite, specular hematite.
No Tertiary gravel heavy minerals observed.

Gold x 5 particles

2 x 1.5mm medium colour remnant crystallinity
1 x 0.5mm as above
1 x 0.1mm as above
1 x 0.1mm medium colour nil crystallinity

SAMPLE 5480

Dominant green to brown epidote.
Moderate magnetite, mica, specular hematite.
Trace pyrite.
No Tertiary gravel heavy minerals observed.

Gold x 5 particles

1 x 2.0mm medium colour remnant crystallinity
1 x 0.5mm medium colour remnant to distinct
crystallinity
3 x 0.1mm medium colour remnant crystallinity

SAMPLE 6059

Dominant Tertiary gravel heavy suite.
Significant magnetite, specular hematite.
Minor mica.

Gold x 28 particles

1 x 2.5mm
2 x 0.5mm
25 x 0.1mm

All gold particles of medium colour and
are well rounded from transportation.

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APPENDIX 7

A REVIEW OF ASPECTS OF THE PROGRAM OF GEOCHEMICAL EXPLORATION
NEAR CORINNA (EL43/94) 29TH MAY 1998.

by

J.W. Marchant
"Woodlands"
Colebrook Road, Campania
7026

NOTE: A section of this review dealing with stream sediment sample results at Doodie Creek is not presented here. It is included in the Brookside (CML7M97, EL43/96) Annual Report to 29.10.98.

To Mr. N.J. Turner
For Goldstream NL
From J.W. Marchant
29 May 1998

A REVIEW OF ASPECTS OF THE PROGRAM OF GEOCHEMICAL EXPLORATION NEAR CORINNA (EL 43/94)

INTRODUCTION- SCOPE OF THE REVIEW

During late March and in April 1998 Mr. Turner and the writer examined and reviewed aspects of Goldstream's program of geochemical exploration near Corinna. The review focused in the first instance on certain issues of particular concern to Goldstream and Mr. Turner. These included the logical and theoretical foundations of the project, the soundness of the methodology, including the difficult questions of orientation and quality control and the interpretation of certain puzzling results from earlier work. The writer's brief was nevertheless a somewhat loose one and he was offered the opportunity to examine and criticize any feature of the undertaking. Those aspects of the program that were not examined minutely included the setting up of the network of sample locations and the interpretation of the broad mass of available regional chemical analyses. Time alone prevented this.

There were some preliminary sessions in the office, when maps and data were examined and discussed with Mr. Turner. The writer then spent time in the bush with Mr. Turner and the field crews (1st to 9th April) in order to become as familiar as possible with the entire chain of events from the planning of work, through the collection of mud, to the generation of chemical analyses. After this excursion, the writer worked at home on the analysis and interpretation of chemical data and observations that had been made in the field, while liaising with Mr. Turner.

OBSERVATIONS AND RECOMMENDATIONS

(1) Overall conception; planning, structure and execution of work

The theoretical basis of the geochemical work at Corinna is sound and the execution of the current program of regional sampling leaves little to be desired. The area is clearly metalliferous. There is widespread evidence of massive movements of hot fluids and there are rocks such as carbonates and black shales that have a good track record as trap sites.

Goldstream is not dealing with virgin ground at Corinna and so, in essence, the company is looking for something that previous investigations may have missed.

What was not missed? The achievements of the old-time prospectors of the nineteenth century are not to be underestimated. There was no part of Van Dieman's Land that they did not scrutinize. They did not miss pancake anomalies and few, if any, outcrops of obvious mineralization escaped their attention. They may have missed fine gold. They may have missed small outcrops of poorly exposed, weathered sulphides. They would have missed most large, subcropping bodies.

The geochemical targets are, ipso facto, likely to be either (a) relatively subtle point sources or (b) localized zones of unusual background values that could (i) be host to local traps or (ii) indicate the aureole of a larger, buried body.

The regional work at Corinna will adequately encompass all the possibilities except the one of small, subtle point sources. The only defence against this contingency is a multiplication of sampling sites but this is usually made unattractive by an exponential increase in costs and is certainly not recommended in the difficult terrain at Corinna.

The Goldstream team is dedicated, competent, enthusiastic, co-operative and professional. The members of the team set high standards and comply with them. Morale is

strong despite the fact that field work has to be carried out under conditions that are as difficult as any the writer has encountered. Everybody was open to new ideas, keen to learn, keen to contribute experience and opinion and willing to debate any issue relating to the performance of the work. There was no trace of resistance to outside input or resentment of constructive criticism. (This is what one is supposed to expect of the professional mind but, sadly, the reverse is all too common. The questions of morale and state of mind in exploration work are, in general, badly neglected. One will find nothing in Hawkes and Webb about psychology and philosophy but reality has demonstrated repeatedly that no amount of money or applied technology can repair the ravages sometimes wrought in exploration projects by a bad attitude).

(2) Field work and chemical analysis in general

The writer will be happy to defend anywhere the proposition that nobody is entitled to have an opinion about Tasmania's horizontal scrub until they have worked in it. Although the system of cutting lines and clearing creeks and humping limited numbers of heavy samples back to camp on foot through miles of leech-ridden, God-forsaken bosk sounds antediluvian, there really is no sensible alternative. Sampling under these conditions is slow and tedious and there is nothing anyone can do to make it otherwise.

There was little to object to in the sampling program. A few changes were made on the spot. For example, wet bags of samples were being left on the ground in a location near old gold workings, where there was the potential for contamination. The bags are now stored on sheets of plastic.

The radiometric signatures of the old workings near Lucy Spur are apparently unknown. It would be a simple matter to check them and the results could be useful.

Vanadium ought to be considered for inclusion amongst the elements determined, especially in the vicinity of Precambrian carbonates. It is not an element to which much attention is commonly paid but in some circumstances (cf. Berg Aukas at Grootfontein, Namibia) it is both an interesting pathfinder and a valuable commodity. Perhaps it could replace in the list of metals for determination something such as bismuth that has consistently returned totally uninteresting values.

(3) Orientation surveys

Orientation surveys, beloved of theoreticians, can be very useful but as often as not are instead impracticable, impossible, useless or downright misleading. All of the potential sites for orientation that were visited by the writer are profoundly disturbed. The old timers missed no obvious sign and few that were tenuous and they scratched at and dug into almost everything that caught their eye. Today, in many a creek and thicket where boot has scarce trod in generations, one can still see, beneath moss and wort, the evidence of the labours of unremembered men long gone to their graves. In scores of rivulets and over many hillsides thousands of tonnes of material were moved. Weathering is severe in these parts, precipitation is very high and nature has had a century to do its worst in spreading mullock, overburden and all down steep slopes and along swollen rivers. There is a prima facie case for arguing that orientation surveys on old workings in these parts will simply show us how to find old workings. Mr. Turner has demonstrated decisively that he can already do this by applying first principles, the eye of experience and common sense to the results from the analysis of regional samples of stream sediments. It is possible that a detailed study of some of the old sites will yield subtle relationships that could be useful in the regional work but the general experience of the writer tells against it. Given the magnitude of the task ahead, any question of the diversion of limited resources and manpower from regional sampling to orientation studies of uncertain and probably dubious merit must be weighed very carefully. Perhaps the time and effort would with better reward be spent on the appraisal of the chemical data from the regional stream sediments and on follow-up sampling. If first principles and experience be carefully applied, then the only impediment to the identification of important anomalies- whether associated with disturbed ground or no- will be plain bad luck. In any event, with winter upon us, the question is

no longer urgent and a final decision about the merits of orientation studies can be postponed until spring.

(4) *Analytical standards for BLEG (Bulk leach extractible gold) samples*

The difficulty of standardization of geochemical analysis has been driving earth scientists to drink since at least the days of G-1 and W-1, more than a generation ago. While much progress has been made over the years the problem is merely contained, not defeated. As levels of detection for certain elements have declined into the realm of the nanogram, the demons of the unreproducible number have drawn new breath. The problems of meaningful analysis of impalpable concentrations of stuff in the test tube are exacerbated- particularly for elements such as gold, which frequently occurs in discrete crystals in the native state- by the formidable difficulties associated with deriving the subsample in the tube from a uniform, progenitorial sample of rock that is not unfeasibly large. This is the tyranny of the phenomenon known as "the nugget effect". The situation is further compounded when methods such as BLEG are used to lixiviate the rock sample; any technique of partial dissolution is inherently predisposed to statistical noise.

The particular problem of providing standards for techniques such as BLEG has taxed and continues to tax many keen minds but it is fair to say that no panacea is to hand, merely anodynes that can sometimes be applied on a case-by-case basis. Messrs. Turner and Hugh Nolan and the writer jointly and severally gave considerable thought to the provision of such a standard for the regional program at Corinna. We consulted several geoscientists and analytical chemists in geochemical laboratories, in order to assess the state of the art and were merely told by one and all that "It is very hard". This intelligence naturally did more to advance our paranoia than our edification.

Consideration was therefore given to devising a standard of our own. The possibilities explored included (i) using a sample of very pure, leached silica sand from Mr. Nolan's quarry, doped with very finely ground ore in which traces of gold are dispersed in sulphides (ii) a tiny, doped "pill" or cartridge of some description containing a measured amount of absorbed gold from an auriferous standard solution that would be dispensed with a micropipette. The pill would be dissolved by the cyanide solution (iii) doping a large sample of leached, gold-free silica with a tiny amount of radiogold in solution and then mixing the batch of silica in a cement mixer. The activity of the isotope could then be used to establish to what extent the gold had become uniformly distributed and to what extent this distribution was maintained as the bulk sample dried out and was handled.

Any of the possible approaches that we could contemplate would require a considerable amount of development and testing before one could be confident that it would work. Once again, decisions have to be made about the allocation of limited resources. Goldstream might give further consideration to this matter during the winter break.

(5) *Use of flocculants*

Flocculants can be used to minimize the escape of very fine particles during the collection of samples of stream sediments. The method is new and nothing or almost nothing about it has been published; written and exact descriptions of the technique have, by and large, been kept confidential by the companies that have developed the process.

The method is not hard to apply and could be implemented at Corinna at short notice but the writer urges caution. There is nothing to suggest that the use of flocculants has suddenly become vital to the art of exploration for gold. We know that the method has worked well in some instances in the tropics but we know nothing for certain about what its effects may be in the very different environment of western Tasmania. Murphy's law is disregarded only by stalwarts and dunces. Think of the Hubble telescope- tested on the ground for years. Nothing could go wrong. Not to mention the Titanic. The use of flocculants at Corinna might well serve to provide Goldstream with a group of enhanced anomalies and were it to come to pass then there would be congratulations all round. But, given the rule that there is absolutely no

substitute for a genuine lack of preparation, what if it should generate a suite of a thousand useless analyses because of something that could not go wrong but did? Then there would be a round of fear and loathing. The winter break will provide a handy opportunity to give careful consideration to the use of flocculants.

(6) The concentration of certain elements in the upper sections of some drill cores

The uppermost portions of the cores from three boreholes (GRB03, GRB04 and GRB05) have unusual concentrations, relative to the mean values for the whole core, of one or more of the metals Pb, Zn, Sb and Hg. In GRB03 the higher values congregate in the range 7 to 21m from collar, while in the other holes bands are seen at 2 to 3m, or around 10m and so on. There is no obvious lithological control.

The pattern appears to be the result of supergene processes. Western Tasmania is wet much of the year and precipitation greatly exceeds evaporation, so the predominant movement of water in the regolith and the upper portions of the bedrock must be downwards. Surface waters are often peaty and therefore acidic and there is much to suggest that strong leaching of the regolith has been a feature of the terrane for a long time and continues to operate powerfully. The existence of the deposits of silica flour bears witness to this. One also notes that pebble beds exposed in road cuttings are strongly leached and rarely stained by ferric compounds. In other road cuttings, where peaty water runs over weathered rock, there are ubiquitous signs of the mobilization and remobilization of iron. No doubt these chalybeate, humic waters may penetrate well into the ground before they are transmuted by reactions of precipitation. At places there are substantial layers of coal-like material several metres below the surface within the silica flour. Mr. Turner has pointed out that, in the adits at Lucy Spur, at least 10m below the soil, there are veins of similar material within the bedrock.

The descending groundwater will doubtless also dissolve and later precipitate elements other than iron and the whole system would tend to act as a gigantic and crude chromatographic column, segregating certain metals into particular bands according to ambient pH, reduction potential and so on.

By and large, there is nothing to suggest that the source of the metal is anything other than natural. It is possible, however, that the elevated concentration of mercury near the surface at some sites may be in part an artefact. The metal was used to recover gold in many locations around Corinna. It was imported in flasks containing about 35kg of the liquid and a fair amount of it must have been lost over the years. There are certain creeks in Victoria and Queensland which, it is claimed, are still heavily contaminated with mercury from mining in the nineteenth century. Anecdote has it that in some of them quicksilver can be recovered by panning. The extent to which the spilled metal can be metabolized by microbes in creeks and soil is moot but if even a small proportion of the burden has been converted to methylmercury, vaporized and then washed out by rain, then broad haloes of anomalous concentrations of mercury would undoubtedly have grown in soils surrounding the loci of primary contamination. Mercury anomalies in the drill cores are apparent at values of the order of a tenth of a part per million. If a tonne of mercury were diffused and diluted uniformly in a slab of loam to this concentration, the amount of soil would be equivalent to a layer one metre thick, one kilometre wide and five kilometres long. Beyond this arithmetic, one passes from geochemistry into speculation. But it remains true that contamination is not where you think it is, it's where you find it.

(7) Heterogeneity in regional background values

It is apparent from even a cursory examination of the regional stream sediment data that anomalous associations between metals are strongly variable. Gold may be accompanied, say, by tin in one instance but by copper in another. Moreover, there are important geographical variations and trends in the background values for certain metals. For example, there is a clustering of higher values for tungsten in samples from the north of EL43/94, while the values for silver cluster in the south. There is nothing subtle about this heterogeneity; Ray Charles could see it. These clusters, one assumes, are a function of changes in lithology from place to

place and the history of the provenance of the materials sampled. Mr. Turner has, for instance, pointed out that the geochemical landscape in the north has been especially influenced both by the proximity of granites and by considerable reworking of some materials into and from Tertiary gravels. The writer has not had the opportunity to scrutinize the regional data but there is prima facie evidence of somewhat less obtrusive variations in the background values for some other elements within the area of exploration. There is the potential, clearly, in such a situation, to transmogrify patches of elevated background values into anomalies that are specious. (Computer programs are proficient at doing this. Forewarned is forearmed). The Tertiary gravels provide an illustration of what can happen. The erosion of these rudites will frequently generate trains of sediments anomalous in gold but there will be no reason to suppose, all being equal, that further workable reserves of the metal are to be had in this formation. Finding Tertiary ore that the old timers missed would be a miracle.

198091

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APPENDIX 8

PETROLOGICAL DESCRIPTION OF ROCK SAMPLE 4003, SOUTHERN ADITS, LUCY SPUR.

by

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493 Tinderbox Road
West Tasmania 7054
April 1994

The sample was taken from a block of mullock dumped near the collar points of LSDDH1 and 2 at 347085E 5384660N.

SAMPLE NUMBER: Goldstream TAS 4003

SUMMARY DESCRIPTION:

This is essentially a biminerallitic rock composed of quartz and tourmaline. The quartz is present as coarse polygonal grains up to 4mm across but usually closer to 1-2mm across. Grain boundaries are sharp and usually straight, and equilibrium triple point junctions are common. Most of the remainder of the rock consists of well-formed needles and prisms of tourmaline, with brown to pale blue pleochroism and intense compositional zoning from crystal cores to rims. The larger crystals show a distinctly different pleochroic scheme from the later, smaller crystals; this scheme is mid-brown to colourless, but sometimes such brown-colourless grains show rims with blue to colourless pleochroism. The later scheme characterises all the small rather acicular tourmaline needles that occur throughout the quartz, often in clusters, but showing no relation to grain boundaries of the host quartz. A single dense cluster of larger (still <0.3mm long) brownish tourmaline crystals is evident in the hand specimen as a cm-sized clot. The patchy distribution of tourmaline makes it impossible to accurately estimate its modal abundance.

The only other phases present are rare well-formed white mica grains usually <<1mm long, and even less abundant tiny deep red hematite(?) plates.

This sample is almost certainly entirely of hydrothermal/vein origin. The total absence of feldspars or their alteration products, and the equilibrium (metamorphic-style) grain boundary dispositions of the abundant quartz suggest that it is not an altered granitic rock.

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APPENDIX 9

**ADDITIONAL DATA FROM THE 1997/1998 ROUND OF DIAMOND
DRILLING**

- 9A Revised AMG co-ordinates for LSDDH1 and 2, LREDDH2
- 9B Summary lithological logs for LSDDH1 and 2, LREDDH, RRDDH2

9A Revised AMG co-ordinates for LSDDH1,2 and LREDDH2

The positions of these holes have been more accurately located as a result of cutting the Lucy Spur grid and doing a tape and compass survey of tracks at Lefroy Ridge East. RLs have been estimated from the topographic maps.

	LSDDH1 & 2	LREDDH2
Easting(m)	347085	341100E
Northing(m)	5384660	5382925
RL(m)	174	192

9B Summary Lithological logs for LSDDH1 and 2, LREDDH2, RRDDH2

LREDDH2 Summary Log

Depth	Lithology
	Weathering intense to 16.5m with buff to reddish, ochreous core; partially weathered with intervals of intense weathering to 36m; partially weathered to 43m.
0-16.5	Deeply weathered, low in quartz and muscovite.
16.5-78.5	Greenish-grey, foliated with ?actinolite + albite + quartz, 1-5% disseminated magnetite, <1% disseminated pyrite; metamorphic laminae (1-10mm) are lenticular but arranged in subplanar orientation with 1-10mm compositional bands; scattered black bands up to 30mm thick (?shale clasts); scattered boudins of pink carbonate (rhodochrosite) >quartz + chalcopryite; metamorphic lamination and boudins can be isoclinally folded eg 61.6-61.8.
78.5-84	Texture suggestive of a coarse grained, ?fragmental precursor, interstitial epidote prominent; little lamination or banding.
84-88	Lamination and banding distinct.
88-94	Little lamination or banding, relatively massive, fairly pale green; 5-8% disseminated magnetite, very little sulphide, magnetite grains up to 3mm across.
94.98.1	Medium grey, foliated but little lamination, relatively high quartz (?felsic), low magnetite and sulphide.
98.1-103.85	Similar 88-94.
103.85-105.5	Similar 94-88.1.
105.5-105.6	Mafic with disseminated magnetite.
105.6-109.46	Similar 94-98.1, epidote patches and bands.
109.46-155.75	Unlaminated with variable disseminated magnetite up to 5-20% (111.5-113.3); low sulphide; common patches and bands of epidote may be folded and may contain chalcopryite; contact at 109.46 is sharp; magnetite sparse 140.8-152.
155.75-161.65	Metamorphic lamination pronounced. Little magnetite or sulphide.
161.65-203	Transitional boundary to unlaminated, dark green-grey; sparse disseminated magnetite; common thin bands and patches of epidote. Distinctive platy to cigar shaped white grains (?feldspar) define a planar/linear fabric. Magnetite sparse 165.5-201.
	Post-foliation veins and shears
120.7	Thin brecciated quartz, minor carbonate vein with magnetite in quartz and hematite + chalcopryite in interstices.

131-134	Sparse, thin, irregular, anastomosing fractures containing specular hematite, very fine grained granular red hematite and very minor sulphide.
173-190	Scattered, thin, planar to very irregular, hematitic shears; some with brecciated quartz; anastomosing and stockwork in places.

LSDDH1 Summary Log

Depth	Lithology
	Weathering strong to 35 with core buff and ochreous; mostly strongly weathered to 48.5; patchy weathering to 67.8.
0-48.5	Very fine grained schist, banded 1-10mm; quartz poor, pale grey to dark grey where less weathered.
48.5-49.1	Pale, porphyroblastic mineral gives fine, spotted texture (?thermal metamorphism) in same schist.
49.1-50	Non-disruptive, cream alteration of same schist with lobate boundaries at 49.1 and 50. No veins.
50-51.75	Strong spotting in same schist.
51.75-54	Non-disruptive, cream alteration of same schist. End of very fine grained, banded schist at 54.
54-67.8	Pale alteration cut by numerous veins and fractures giving a brecciated appearance. Veins consist of quartz, siderite and greenish, waxy, coarse mica (greisen-like) which also occurs on fractures; alteration medium grey, siliceous 60-62; veins more quartzose below 60.
67.8-82.3	Dark grey, metamorphically laminated muscovite + albite + quartz schist with alteration below 78.5.
82.3-87.6	Silicification, intense fracturing with greenish, waxy, coarse mica on fractures; common quartz veinlets with minor siderite below 87.
87.6-91	Same dark grey schist with common quartz veinlets.
91-200	Same dark grey schist; S1 tightly folded around crenulation cleavage S2; common quartz vein boudins throughout; scattered, thin post-S2 veins eg 101-101.4 quartz + white carbonate + pink carbonate (rhodochrosite) + hematite + chlorite; eg 142.55-142.95 coarse pink carbonate + minor quartz; eg 169.9 3cm quartz + pink carbonate+20% specular hematite.

LSDDH2 Summary Log

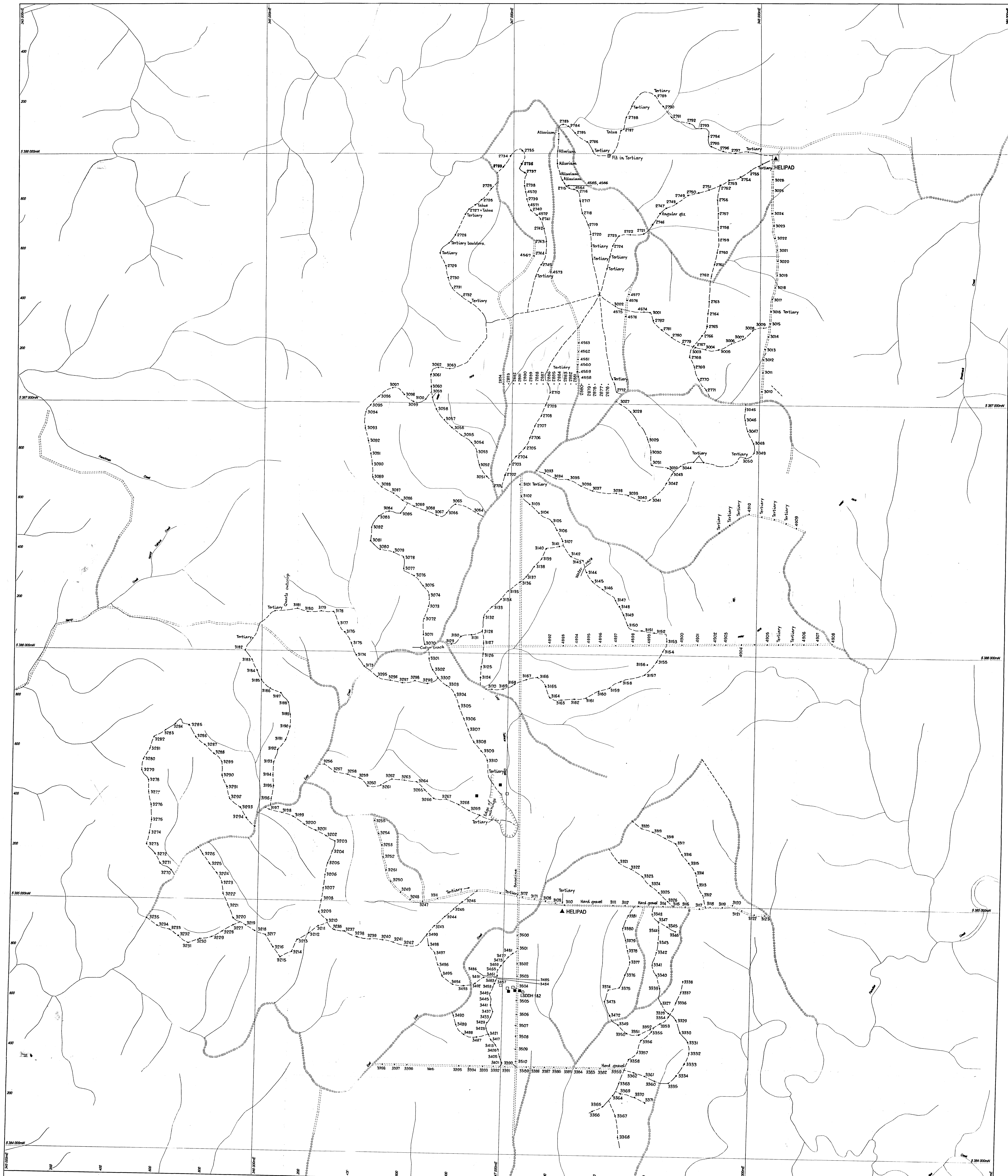
Depth	Lithology
	Weathering strong to 45 with most core buff to khaki and ochreous; moderate weathering to 53.5, leached 45-51.7 with no limonite.
0-43.5	Very fine grained schist, banded 1-20mm, quartz poor-

	same as upper unit in LSDDH1. Patchy, cream, nondisruptive alteration below 38.
43.5-51.7	Metamorphically laminated, muscovite-rich schist with partial, non-disruptive silicification; numerous veins and fractures give a brecciated appearance, veins consist of quartz and cavities after carbonate; greenish, waxy, coarse mica on fractures.
51.7-82.5	Dark grey, banded (1-20mm) muscovite + chlorite + albite + quartz schist. Common boudins of quartz \pm pink carbonate (rhodochrosite).
85.3-300	Same dark grey schist; S1 tightly folded around crenulation cleavage S2; common boudins; post S2 veins sparse eg: 139.6-139.8 white and pink carbonate; 150.154-150.35 mainly pink carbonate with white carbonate and minor quartz, hematite and medium brown mineral; 160.9-166.7 scattered 5-50mm thick white carbonate + quartz and white carbonate + pink carbonate + quartz veins, both with minor hematite, limonite patches in veins and surrounding schist; 192-198.8 scattered similar veins 5-100mm thick; 213-214 similar veins with pink carbonate alteration in adjacent schist; 221.3-223.2 ditto; 235.5-240.2 ditto, pink and buff alteration; 292.7-293 similar veins.

RRDDH2 Summary Log

Depth	Lithology
	Weathering intense to 42.5 with core buff to red and ochreous; 42.5-70.5 moderate to strong weathering; 70.2-82.2 crumbly but not oxidized.
0-7.5	Uniform, relatively massive, foliated ?mafic metaigneous.
7.5-9	Very poor recovery, milky quartz fragments, 3cm dark grey pelitic phyllite.
9-15	Uniform, relatively massive, foliated ?mafic metaigneous.
15-16	Very poor recovery, 5cm dark grey pelitic phyllite.
16-21	Uniform, relatively massive, foliated ?mafic metaigneous.
21-29	Ditto, becoming greenish, relict coarse ferromagnesian grains 24-29 = metagabbro.
29-35	Very poor recovery, milky quartz fragments, clay.
35-54	Foliated metagabbro, foliation strong (schistose) 35-38.2, 44-54; relict ferromagnesian grains. 38.2-44 (?less deformed core of rock unit). Pyrite <1%.
54-70.5	Granular, albite-rich mica schist, dark grey changing to green-grey, banded 2-20mm; silver grey phyllite at 58.8.
70.5-74.5	Foliated metagabbro with relict ferromagnesian grains 73-74.5.
74.5-82	Dark to medium grey granular albite-rich muscovite schist with quartzose bands, minor garnet.

82-98.7	Foliated metagabbro with relict ferromagnesian grains up to 7mm across in places, less than 1% pyrite, epidote veinlets.
98.7-105.2	Dark grey albite-mica schist with increasing pale bands (include carbonate) downwards.
105.2-106.5	Planar banded magnetite (dominant), pyrite, quartz, dark silicate, carbonate.
106.5-110.8	Pale bands and dark silicate bands, pyrite <1%, little magnetite.
110.8-113.1	Dark grey mica phyllite with metamorphic laminae of quartz/cream carbonate.
113.1-114.1	Banded magnetite (dominant), pyrite, quartz, albite, carbonate.
Oonah Formation/Bowry Formation	
114.1-120.1	Greenish grey chloritic schist with felsic metamorphic laminae and felsic banding (?premetamorphic), pyrite <1%.
120.1-136.4	Same schist with pyrite/minor chalcopyrite bands and disseminated magnetite.
136.4-218.25	Same schist, pyrite <1%, variable disseminated magnetite, garnet below 185.3, tight fold closures 168-178, epidote locally distinctive.
218.5-317.43	Same schist, pyrite variable 1-5%, disseminated magnetite becomes concentrated in bands (not massive) below 254.05, garnet scattered throughout. Quartz vein breccia intervals 218.5-231.4 (?prefoliation).
317.43-321.37	Banded (2-20mm) massive magnetite, subordinate pyrite, silicate.
321.37-343.4	Prominent dark and pale silicate banding, massive magnetite bands, about 5% pyrite disseminated and in scattered 2-20mm bands, garnet present - very dark red at 336.5.
343.4-349.5	Relatively massive, foliated, mafic ?metagneous; marbling effect due to irregular thin quartz segregation 347-349.5.
	Note: Thin (1-15mm) veins of quartz + carbonate \pm chlorite \pm hematite are scattered 136-300, sparse below 300; common subparallel orientation with very shallow dip.



REFERENCE

- Walking Track or Cut Line
- Sample Line
- Adit
- Blocked Adit
- Location and number of C soil, auger, BCL sample. See Plan 4 also.
- Collar point of diamond drill hole.

99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

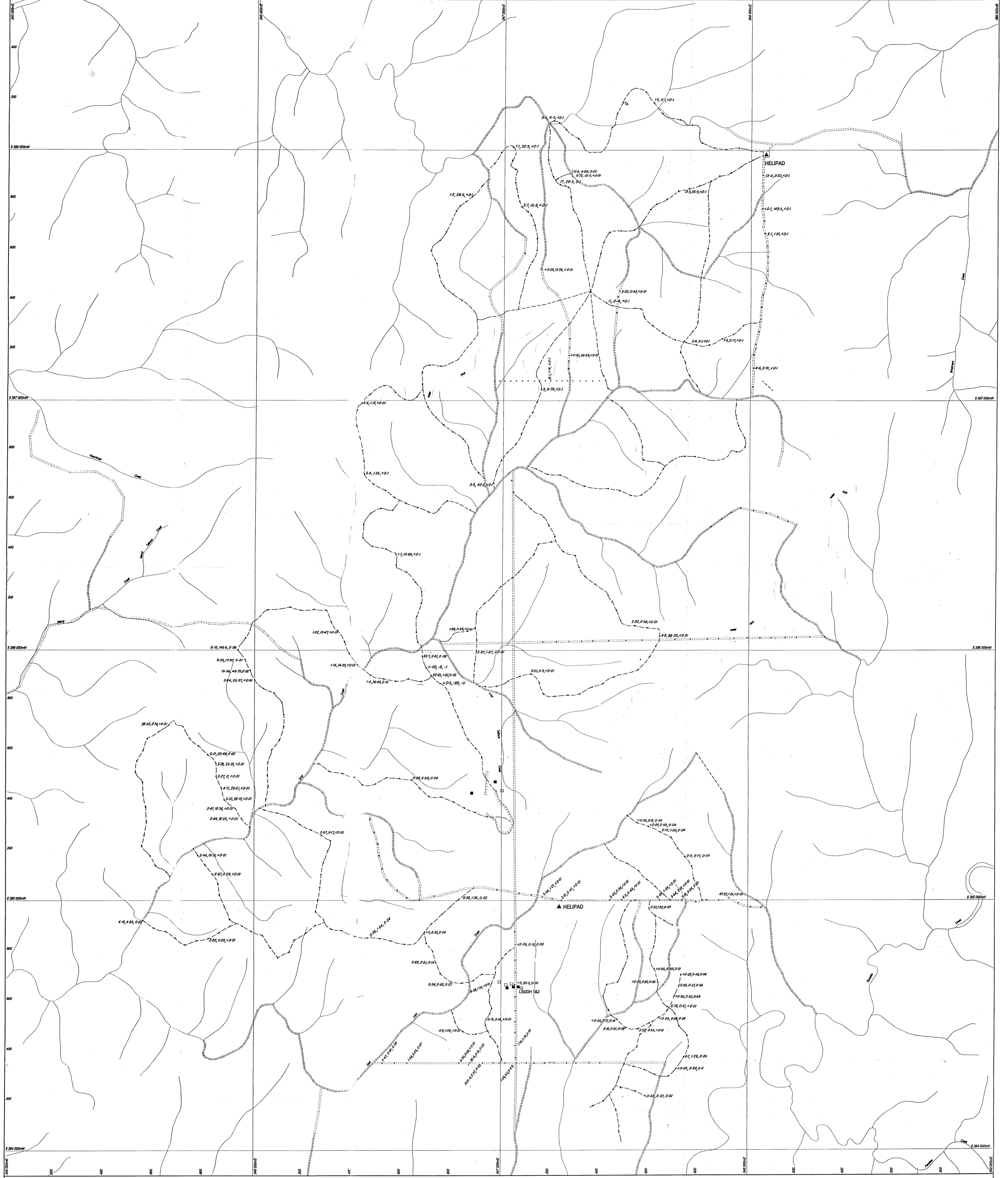
MAP REFERENCE
Lands Information Bureau, Tasmania.
1: 25000 Map Series: Livingstone 3438

198099

0 100 200 300 400 metres
Scale 1: 5000



EL 43/94 CORINNA		Plan: 1
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
LUCY SPUR PROSPECT		File: 4394PL48.dwg
Access, Drainage, Ridge and Spur Lines, Sample Location for C soil BCL		Date: 15 July 98
Contractor:		Compiled: Peter Gregory Drawn: Peter Nankivell Scale: 1:5,000
N.J. Turner Geological Services Pty. Ltd.		



REFERENCE

..... Walking Track or Cut Line

----- Sample Line

□ Adit

■ Blocked Adit

• Au, Cu, Ag C Soil BCL analytical group with Au ≥ 3ppb and/or Cu ≥ 10ppm and/or Ag ≥ 0.04 ppm.

MAP REFERENCE : Land Information Bureau, Tasmania.
1:25 000 Map Series: Livingstone 3438

198100

99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

0 100 200 300 400 metres

Scale 1 : 5000

5 cm

AMS North

11.8°

EL 43/94 CORINNA		Plan: 2
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
File: 4394PL48.dwg	Date: 15 July 1998	Completed: No Turner
Drawn: Rocco Traversa		Revised: None
Scale: 1:5,000		
Contractor: N.J. Turner Geological Services Pty. Ltd.		

GOLDSTREAM MINING NL

Level 2, 28-42 Ventnor Avenue
West Perth, Western Australia
6872

TITAN RESOURCES NL

24 Outram St
West Perth, Western Australia
6872

CORINNA PROJECT

**EL43/94 CORINNA
WESTERN TASMANIA**

ANNUAL REPORT TO 4/1/99

Volume 2 of 3

Prepared by: N.J. Turner Geological Services Pty Ltd,
65 Lochner St, West Hobart, Tasmania, 7000

31 July, 1998

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Figure 2: Tenement and geology plan.

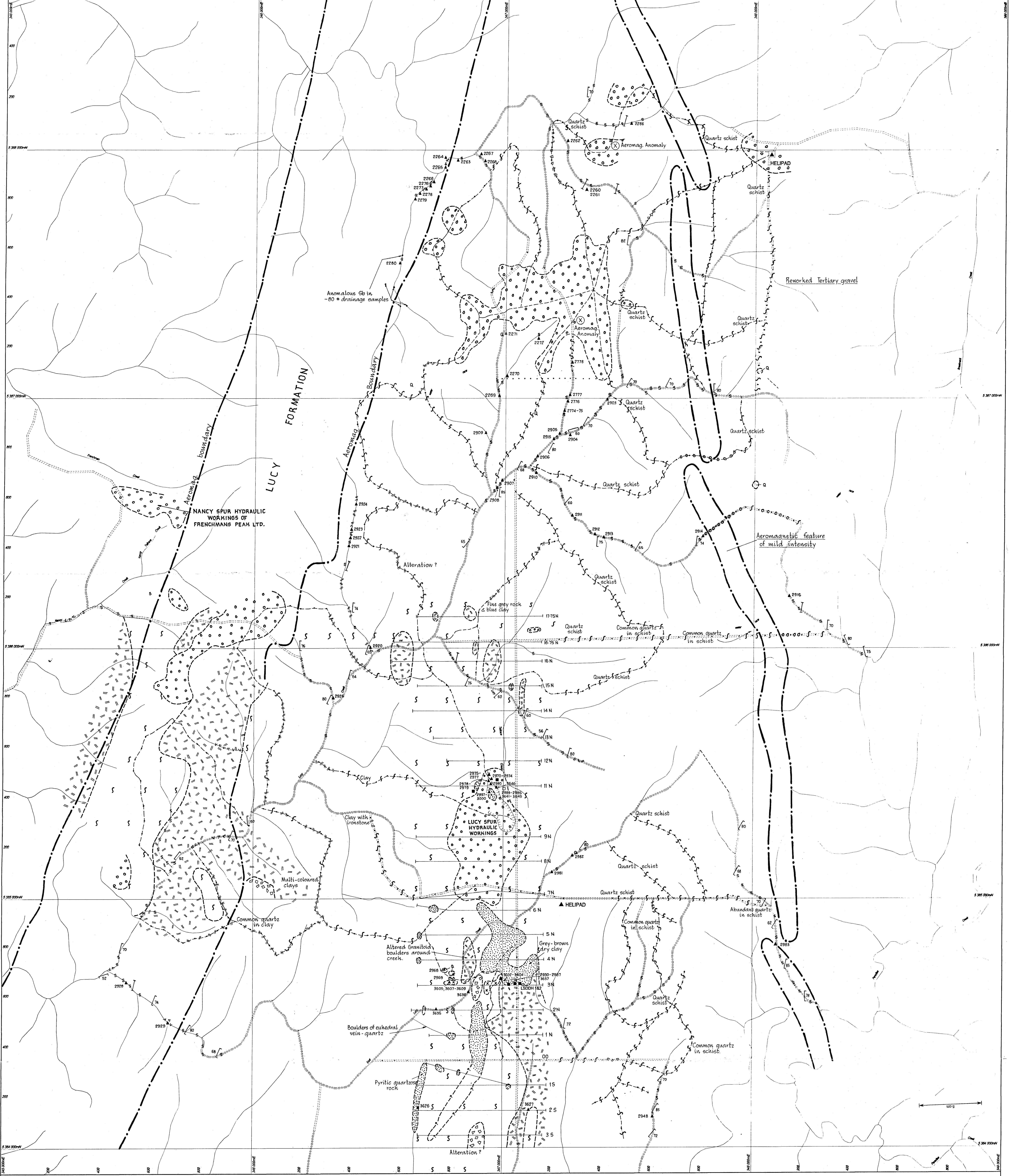
LIST OF APPENDICES

Appendix 1	Terry, B. 1998. Lucy Spur and Rocky River Prospects: Notes on geology, old workings, soil and rock samples.
Appendix 2	Soil auger-sample numbers, AMG co-ordinates, prospect, analytical data.
Appendix 3	Close-spaced stream sediment sample numbers, AMG co-ordinates and analytical data for Lefroy Ridge East, Graham Creek (Rocky River North) Prospects.
Appendix 4	Rock chip and channel sample numbers, AMG co-ordinates, descriptions and analytical data.
Appendix 5	Regional stream sediment sample numbers, AMG co-ordinates and analytical data.
Appendix 6	Nolan, H.D. 1998. Microscope examination of gold particles in panned concentrate samples from the Lefroy Ridge East Prospect, EL43/94 Corinna, western Tasmania.
Appendix 7	Marchant, J.W. 1998. A review of aspects of the program of geochemical exploration near Corinna.
Appendix 8	Crawford, A.J. 1998. Petrological description of rock sample 4003, southern adits, Lucy Spur.
Appendix 9	Additional data from the 1997/1998 round of diamond drilling.
Appendix 10 (separate volume)	Leach, T.; Corlett, G. 1998. Petrographic analysis of four adit samples from the Lucy Spur Project, Tasmania.

PLANS

Plan 1	LUCY SPUR PROSPECT Access, drainage, ridge and spur lines, sample locations for C soil BCL. Vol. 1.
Plan 2	LUCY SPUR PROSPECT Access, drainage, ridge and spur lines, anomalous BCL Au, Cu, Ag in C soil. Vol. 1.
Plan 3	LUCY SPUR PROSPECT Access, drainage, soil types, geology, rock chips.
Plan 4	LUCY SPUR PROSPECT Grid, infill over Lucy Formation, drainage, contours, sample locations of C soils BCL and rock chips.
Plan 5	LUCY SPUR PROSPECT Grid, infill over Lucy Formation, drainage, contours, geology, anomalous C soil BCL: Au, Cu, Ag.
Plan 6	ROCKY RIVER Access, drainage, soil types, location of C soil auger and rock chip samples.
Plan 7	ROCKY RIVER Access and drainage, geology, anomalous C soil Au, Cu, Ag.

- Plan 8 GRAHAM CREEK PROSPECT (Northern extension of Rocky River Prospect). Access, drainage, geology, stream sediment and rock chip sample locations.
- Plan 9 GRAHAM CREEK PROSPECT (Northern extension of Rocky River Prospect). Access, drainage, geology, stream sediment sample Au(pan. con.), Au & Ag (-80#).
- Plan 10 GRAHAM CREEK PROSPECT (Northern extension of Rocky River Prospect) Access drainage, geology, stream sediment sample Cu, Pb & Zn (-80#).
- Plan 11 GRAHAM CREEK PROSPECT (Northern extension of Rocky River Prospect). Access, drainage, geology, stream sediment sample As, Sb & Bi (-80#).
- Plan 12 GRAHAM CREEK PROSPECT (Northern extension of Rocky River Prospect). Access, drainage, geology, stream sediment sample Mo, Sn & W (-80#).
- Plan 13 LEFROY RIDGE EAST. Access, drainage, LREDDH1 & 2, geology, C soil BCL and stream sediment sample locations.
- Plan 14 LEFROY RIDGE EAST. Access, drainage, LREDDH1 & 2, geology, C soil BCL of Au, Ag, Cu. Stream sediment sample Au (pan. con.), Au & Ag (-80#).
- Plan 15 LEFROY RIDGE EAST. Access, C soil BCL of Au, Ag, Cu. Stream sediment sample Cu, Pb & Zn (-80#).
- Plan 16 LEFROY RIDGE EAST. Access, C soil BCL of Au, Ag, Cu. Stream sediment sample As, Sb & Bi (-80#).
- Plan 17 LEFROY RIDGE EAST. Access, C soil BCL of Au, Ag, Cu. Stream sediment sample Mo, Sn & W (-80#).



REFERENCE

- Walking Track or Cut Line
- Sample Line
- Adit
- Blocked Adit
- Grid line
- Rock chip locality and sample number
Also see Plan 4.

SOILS, ETC., IN AUGER HOLES

- Orange-brown clay soil associated with amphibolite and more mafic schist.
- Grey micaceous clay soil grading to weathered micaceous schist.
- Residual vein-quartz gravel.
- TERTIARY**
- Fluvial gravel and sand.
- ? DEVONIAN**
- Altered schist and granitoid; veins with coarse euhedral quartz.

PROTEROZOIC

- Micaceous schist, minor quartzose schist.
- Amphibolite.
- UNASSIGNED**
- Soil and weathered rock due to alteration or abundance of iron.
- Blocky vein quartz.
- Approximate geological boundary.
- Aeromagnetic boundary.
- Strike and dip of main foliation (usually S2), vertical.

MAP REFERENCE

Land Information Bureau, Tasmania
1:25 000 Map Series: Livingstone 3438
Compiled: Bruce Terry, Ron Gregory, Nic Turner.

99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

198106

0 100 200 300 400 metres

Scale 1:5000

EL 43/94 CORINNA

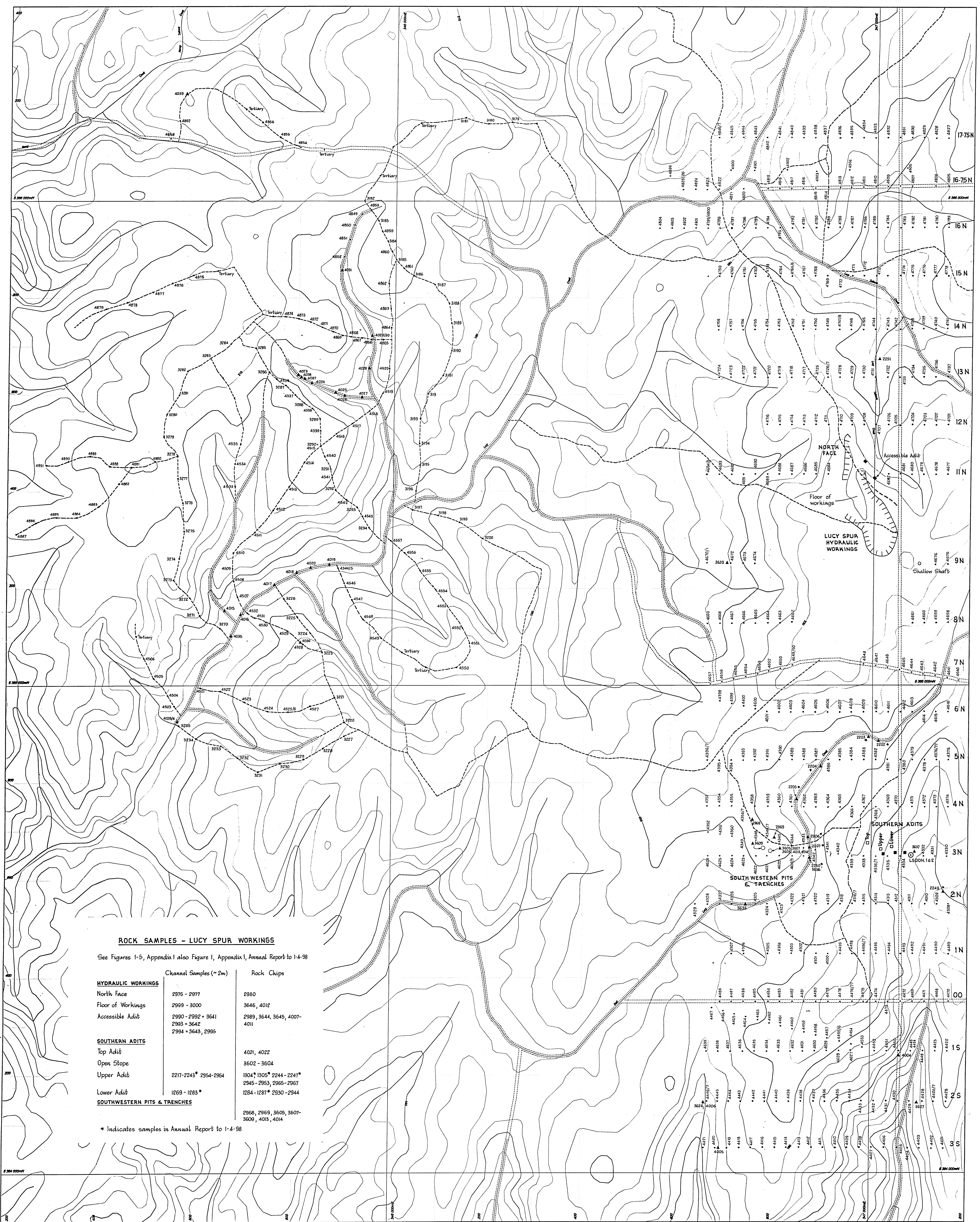
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture

LUCY SPUR PROSPECT

Access, Drainage
Soil Types, Geology,
Rock Chips

Contractor: N.J. Turner Geological Services Pty. Ltd.

File: 4384PL48.dwg
Date: 18-Jun-1998
Compiled: Bruce Terry
Ron Gregory, Nic Turner
Drawn: P. Newbould
Scale: 1:5,000



ROCK SAMPLES - LUCY SPUR WORKINGS

See Figures 1-5, Appendix I also Figure I, Appendix I, Annual Report to 1-4-98

	Channel Samples (~2m)	Rock Chips
HYDRAULIC WORKINGS		
North Face	2975 - 2977	2980
Floor of Workings	2999 - 3000	3646, 4012
Accessible Adit	2990 - 2992* 3641 2993 = 3642 2994 = 3643, 2995	2989, 3644, 3645, 4007-4011
SOUTHERN ADITS		
Top Adit		4021, 4022
Open Stope		3602 - 3604
Upper Adit	2217-2243* 2954-2964	1904*, 1905*, 2244 - 2241*, 2945 - 2953, 2965 - 2967
Lower Adit	1269 - 1283*	1284 - 1287*, 2930 - 2944
SOUTHWESTERN PITS & TRENCHES		2968, 2969, 3605, 3607-3609, 4015, 4014

* Indicates samples in Annual Report to 1-4-98

- Adit ○ Other excavations.
- Blocked Adit
- ===== Walking track
- Ridge and spur sample line
- ⊙ Collar of diamond drill hole

- 4521 • Location of C soil, auger sample
- 4016 ▲ Location of rock sample (* indicates samples in Annual Report to 4-1-98)

MAP REFERENCE
Land Information Bureau, Tasmania
1:25,000 Map Series : Livingstone 3438

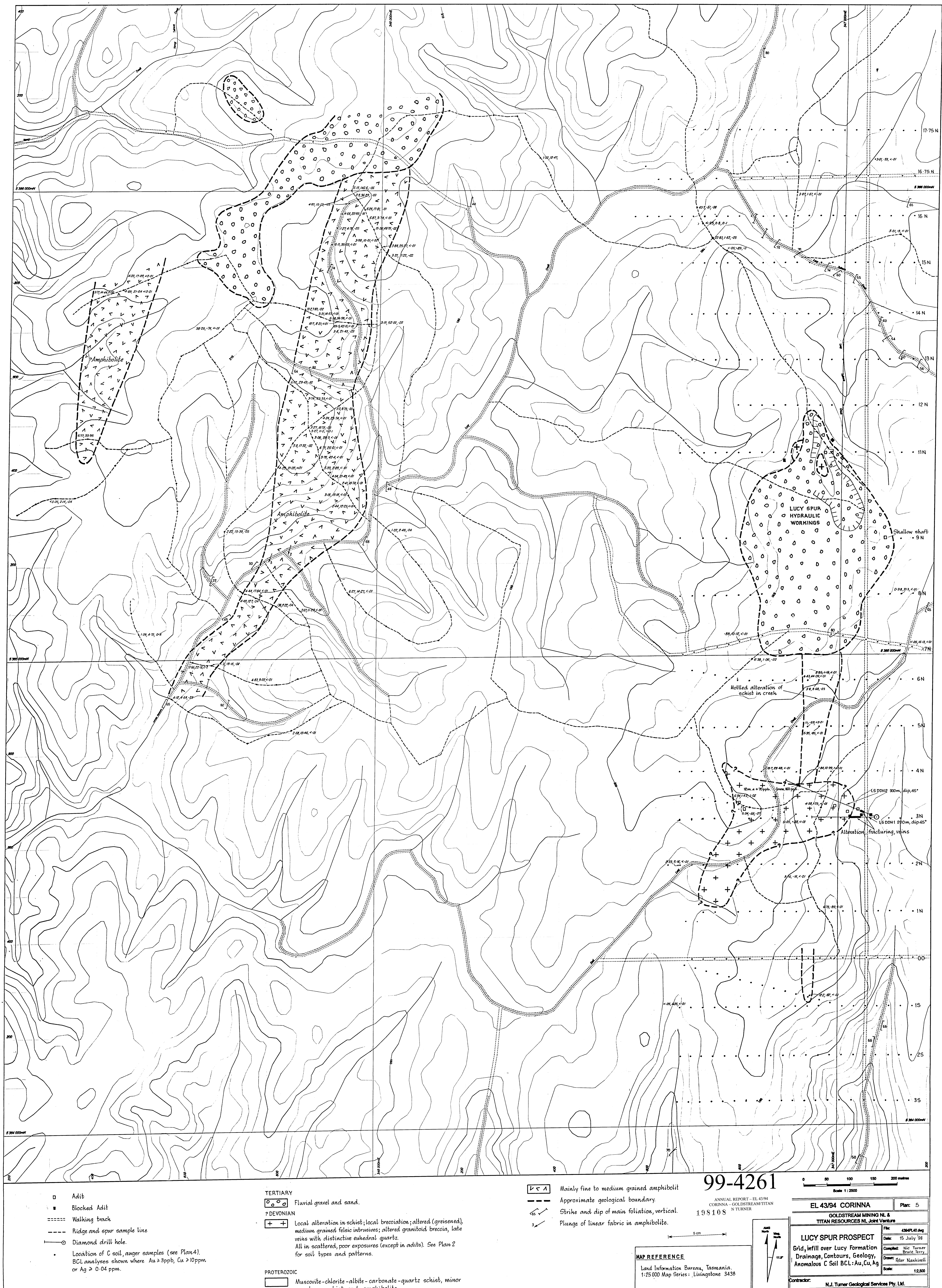
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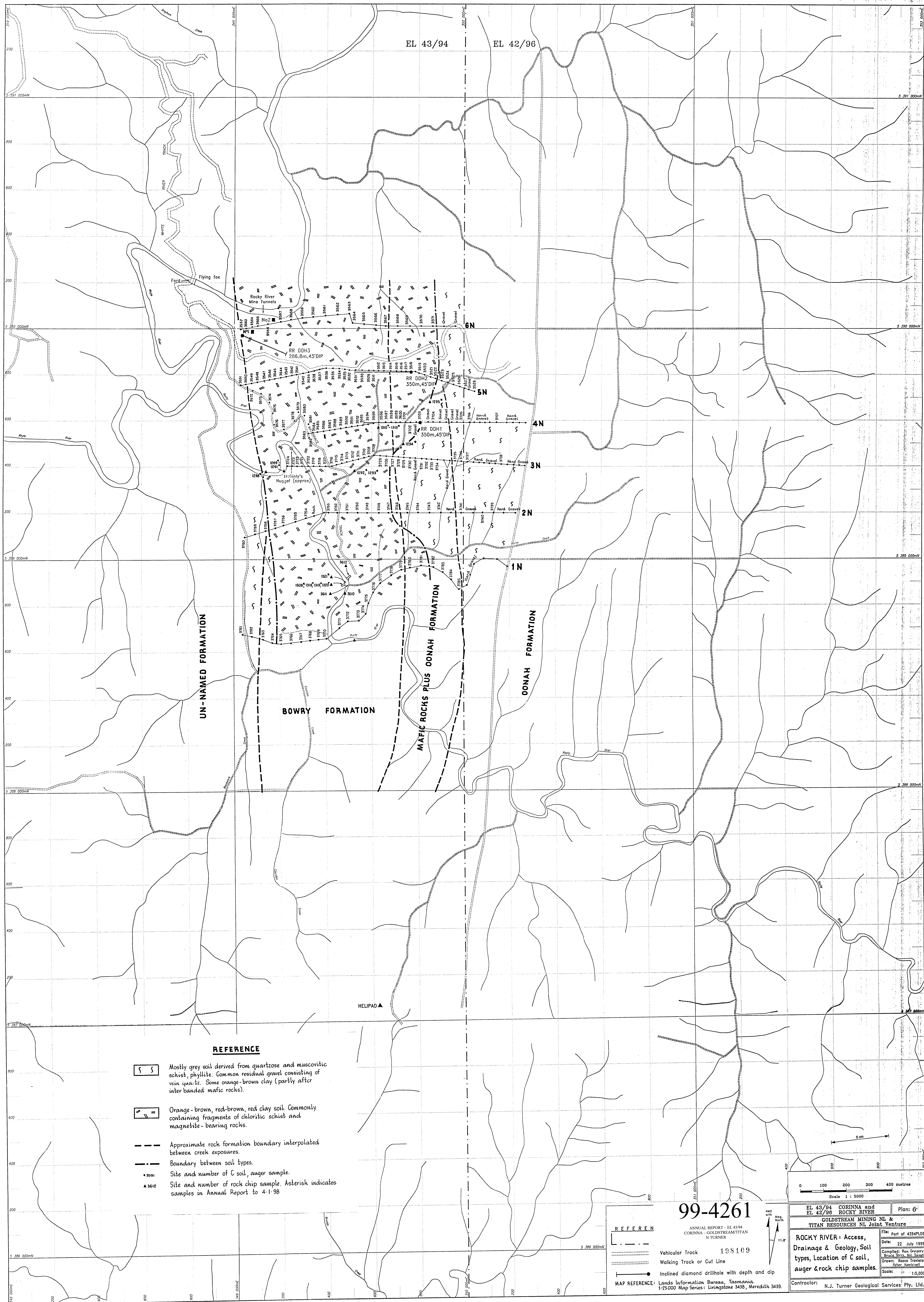
ANNUAL REPORT - EL 4394
CORINNA - GOLDSTREAM/TITAN
N TURNER

198107 0 50 100 150 200 metres

Scale 1:2500

EL 43/94 CORINNA		Plan: 4.
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
LUCY SPUR PROSPECT		
Grid, infill over Lucy Formation Drainage, Contours, Sample Location of C Soils BCL & rocks		
File:	4394PLA0.dwg	
Date:	15 July 1998	
Compiled:	Mc Turner	
Drawn:	Peter Nashivelli	
Scale:	1:2,500	
Contractor: N.J. Turner Geological Services Pty. Ltd.		





REFERENCE

- Mostly grey soil derived from quartzose and muscovitic schist, phyllite. Common residual gravel consisting of vein quartz. Some orange-brown clay (partly after inter banded mafic rocks).
- Orange-brown, red-brown, red clay soil. Commonly containing fragments of chloritic schist and magnetite-bearing rocks.
- Approximate rock formation boundary interpolated between creek exposures.
- Boundary between soil types.
- Site and number of C soil, auger sample.
- Site and number of rock chip sample. Asterisk indicates samples in Annual Report to 4-1-98.

REFEREN

- Vehicular Track
 - Walking Track or Cut Line
 - Inclined diamond drillhole with depth and dip
- MAP REFERENCE: Lands Information Bureau, Tasmania.
1:25000 Map Series: Livingstone 3438, Meredith 3439.

99-4261

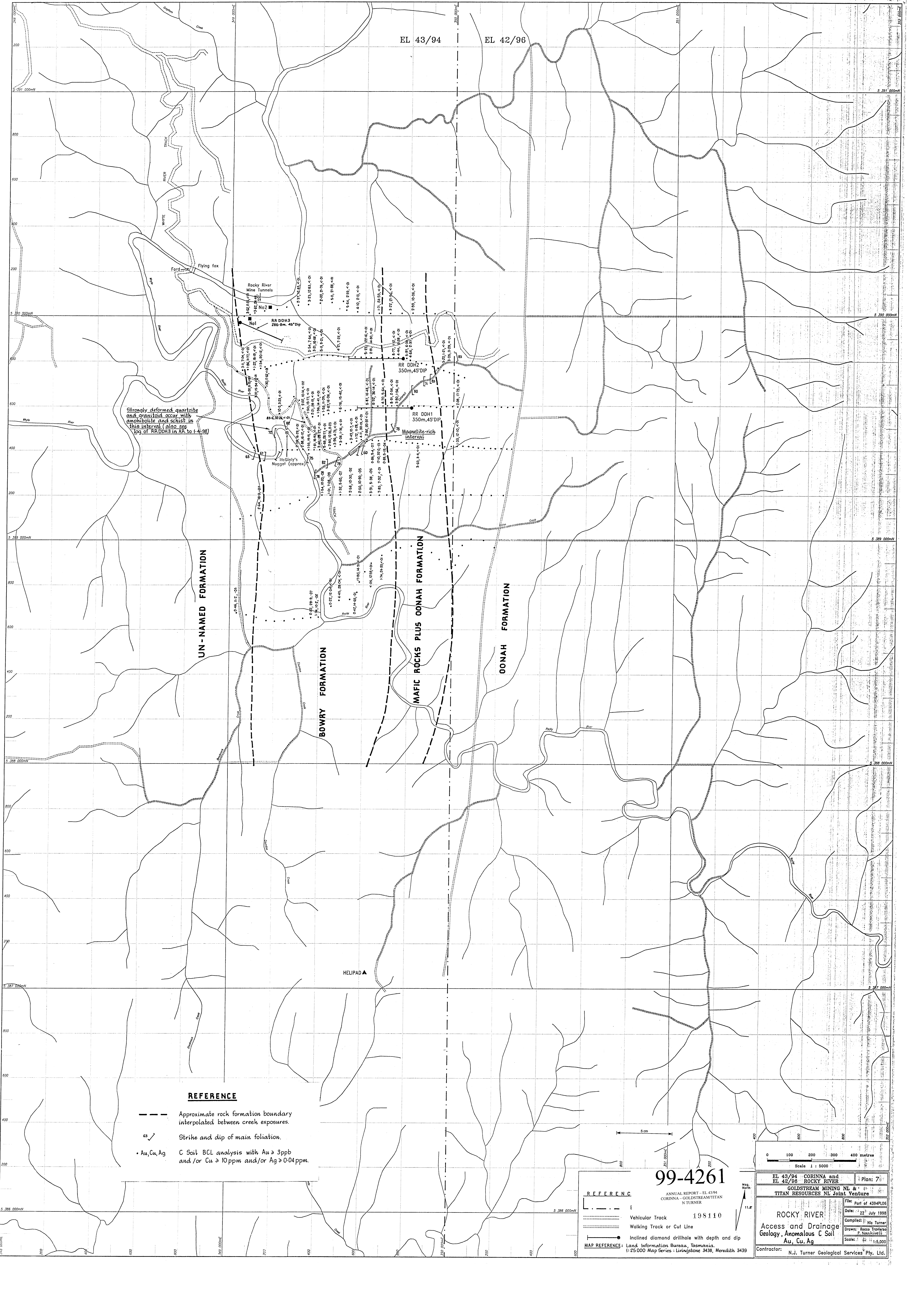
ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

198109

ANG
orth
Map
North
11.8

0 100 200 300 400 metres
Scale 1 : 6000

EL 43/94 CORINNA and EL 42/96 ROCKY RIVER	Plan: 6
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture	
ROCKY RIVER: Access, Drainage & Geology, Soil types, Location of C soil, auger & rock chip samples.	
Date: 22 July 1998 Compiled: Ron Gregory, Bruce Terry, Nic Turner Drawn: Rocco Traversa Peter Newkirk	File: Part of 4394P106 Scale: 1 : 15,000
Contractor: N.J. Turner Geological Services Pty. Ltd.	



EL 43/94

EL 42/96

Strongly deformed quartzite and granitoid occur with amphibolite and schist in this interval (also see log of RRDDH3 in AR to 1-4-98)

UN-NAMED FORMATION

BOWRY FORMATION

MAFIC ROCKS PLUS OONAH FORMATION

OONAH FORMATION

HELIPAD ▲

REFERENCE

- Approximate rock formation boundary interpolated between creek exposures.
- 63/ Strike and dip of main foliation.
- Au, Cu, Ag C Soil BCL analysis with Au > 3ppb and/or Cu > 10ppm and/or Ag > 0.04ppm.

REFERENCE

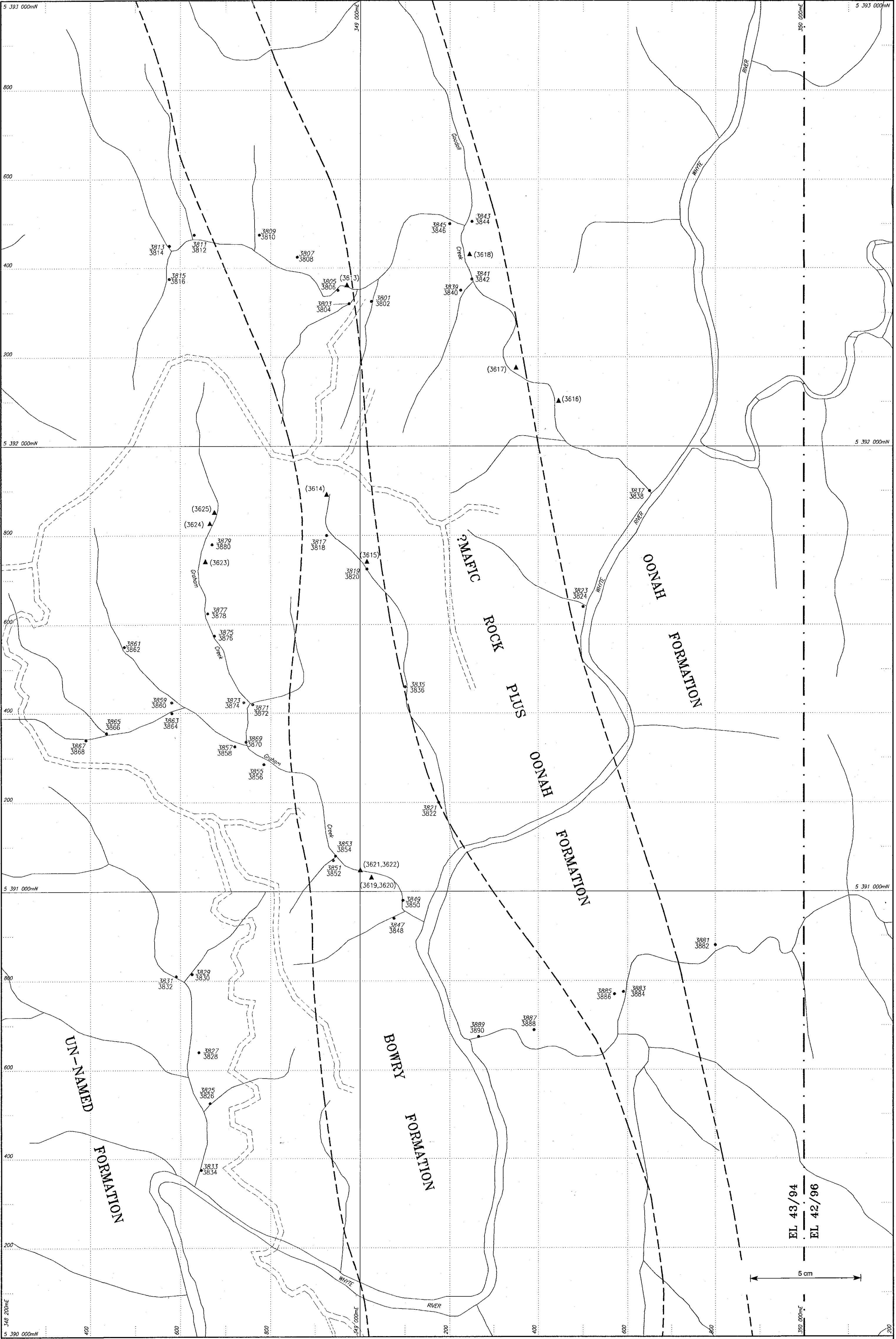
- Vehicular Track
 - Walking Track or Cut Line
 - Inclined diamond drillhole with depth and dip
- MAP REFERENCE: Land Information Bureau, Tasmania.
1:25 000 Map Series: Livingstone 3438, Meredith 3439

99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

198110

EL 43/94 CORINNA and EL 42/96 ROCKY RIVER		Plan: 7 of 8
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
File: Part of 4394PLOS		
Date: 22 July 1998		
Compiled: Nita Turner		
Drawn: Rocco Traverso		
Scale: 1:15,000		
Contractor: N.J. Turner Geological Services Pty. Ltd.		



REFERENCE

- EL 43/94 - EL 42/96 Boundary.
- Vehicle track, some overgrown.
- Stream sediment sample site
Odd Number: -80# sample
Even Number: Panned Concentrate Sample
- Rock chip site and sample number.
- Approximate rock formation boundary.

GEOLOGICAL REFERENCE

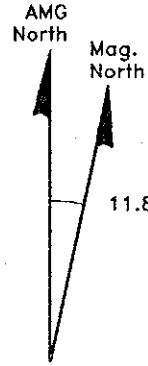
Geological Survey of Tasmania:
Geological Atlas 1:50,000 Series
-Sheet 7914N. Corinna

99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

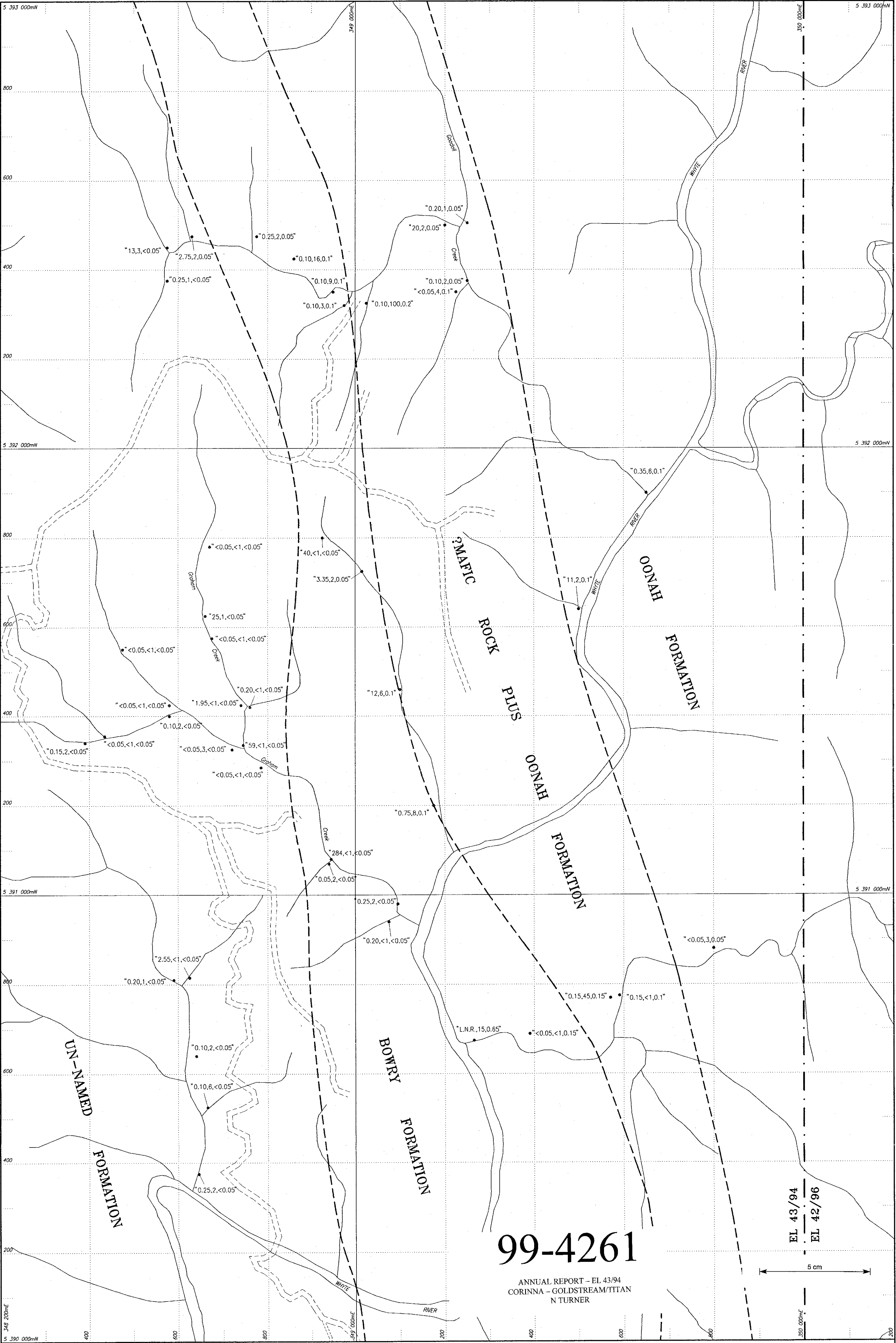
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Map Series: MEREDITH 3439.

198111



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EL 43/94 CORINNA		Plan: 8
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
GRAHAM CREEK PROSPECT (Northern Extension of Rocky River Prospect) Access, Drainage, Geology, Stream Sediment and Rock Chip Sample Locations		File: 4394PL50.dwg
		Date: 22 July 1998
		Compiled: Nic Turner
		Drawn: Rocco Travieso ART Carto-Graphics
		Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.		



99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

EL 43/94
EL 42/96

5 cm

REFERENCE

- EL 43/94 - EL 42/96 Boundary.
- Vehicle track, some overgrown.
- Stream sediment sample location with Au*(pan.con., micrograms per 9 litres of -4cm gravel), Au(-80#,ppb), Ag(-80#,ppm).
- Approximate rock formation boundary.

GEOLOGICAL REFERENCE

Geological Survey of Tasmania:
Geological Atlas 1:50,000 Series
-Sheet 7914N. Corinna

Map Reference

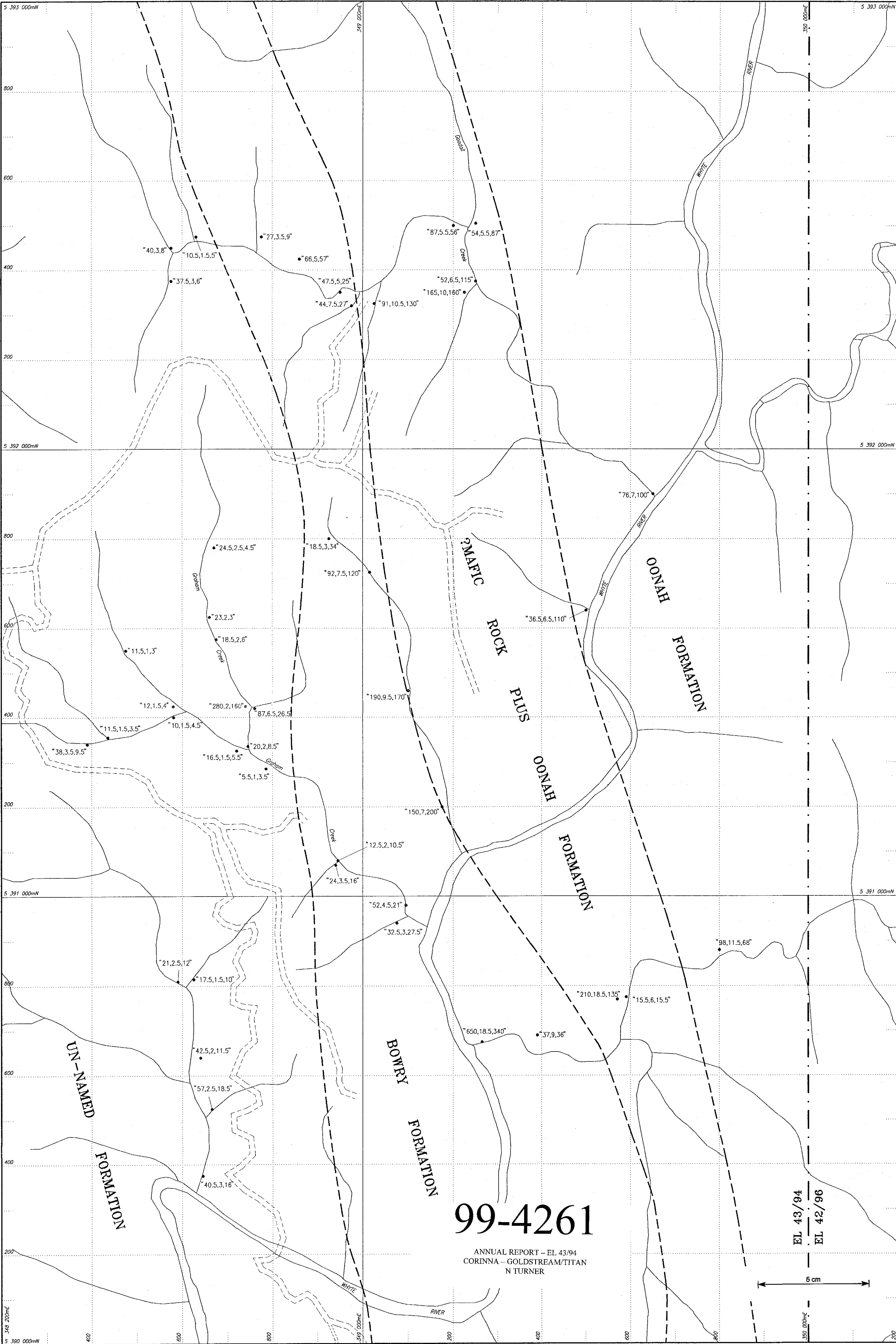
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198112



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Scale 1:5000

EL 43/94 CORINNA		Plan: 9
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
GRAHAM CREEK PROSPECT (Northern Extension of Rocky River Prospect) Access, Drainage, Geology, Stream Sediment Sample Au (pan.con.), Au & Ag (-80#)		File: 4394PL44.dwg
		Date: 22 July 1998
		Compiled: Nic Turner
		Drawn: Rocco Traverso ART Carlo~Graphics
		Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.		



REFERENCE

- EL 43/94 - EL 42/96 Boundary.
- Vehicle track, some overgrown.
- Stream sediment sample location with Cu,Pb,Zn All -80#, all ppm).
- Approximate rock formation boundary.

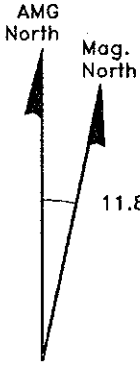
GEOLOGICAL REFERENCE

Geological Survey of Tasmania:
Geological Atlas 1:50,000 Series
-Sheet 7914N. Corinna

Map Reference

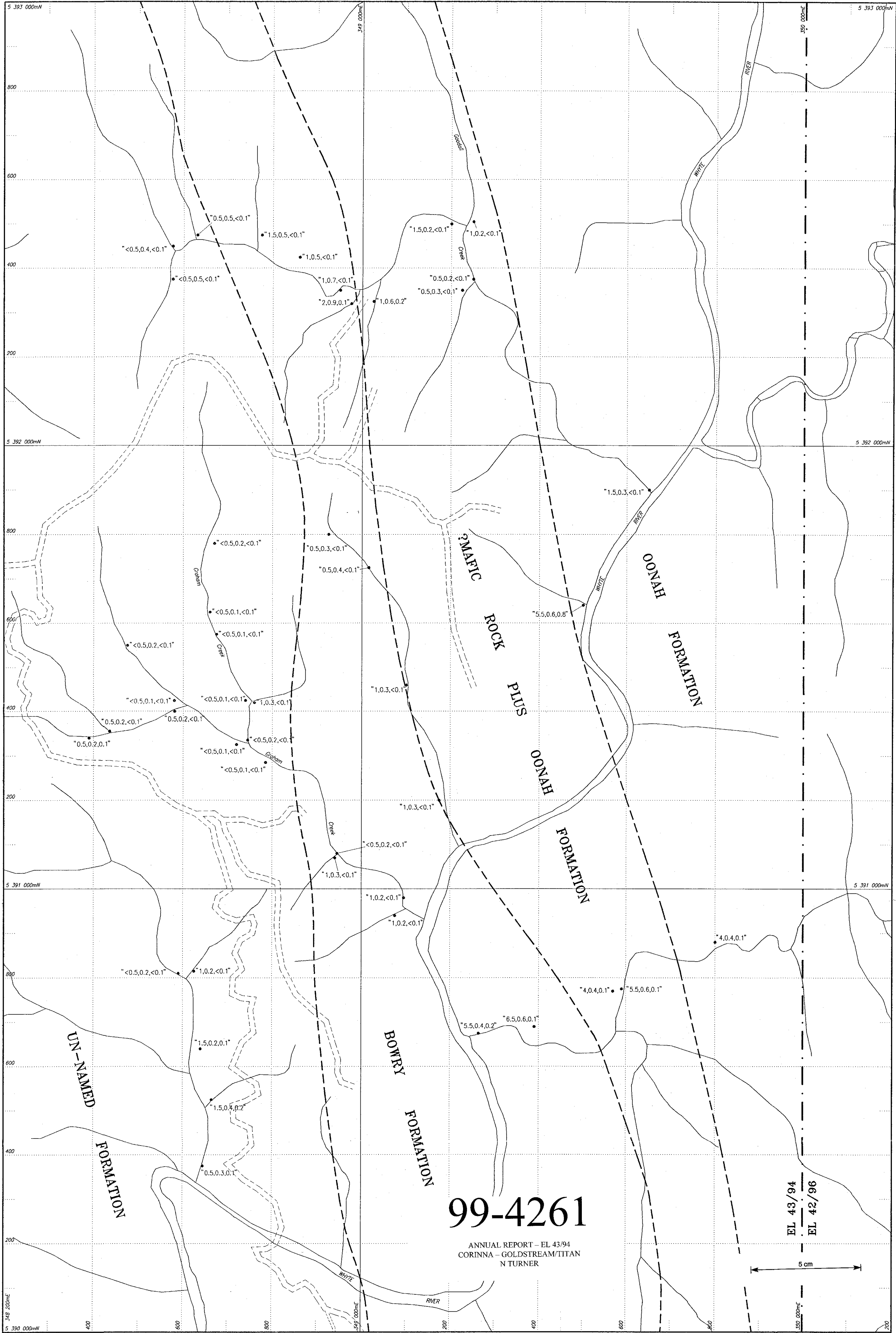
Land Information Bureau, Tasmania 1:25,000
Map Series: MEREDITH 3439.

198113



0 100 200 300 400
Scale 1:5000

EL 43/94 CORINNA		Plan: 10
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
GRAHAM CREEK PROSPECT (Northern Extension of Rocky River Prospect) Access, Drainage, Geology, Stream Sediment Sample Cu, Pb & Zn (-80mesh)		File: 4394PL51.dwg
		Date: 22 July 1998
		Compiled: Nic Turner
		Drawn: Rocco Traverso ART Carto-Graphics
		Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.		



99-4261

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

EL 43/94
EL 42/96

5 cm

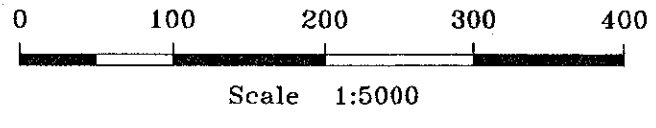
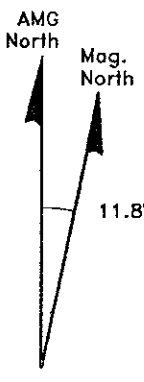
REFERENCE

- EL 43/94 - EL 42/96 Boundary.
- Vehicle track, some overgrown.
- Stream sediment sample location with As,Sb,Bi All -80#, all ppm).
- Approximate rock formation boundary.

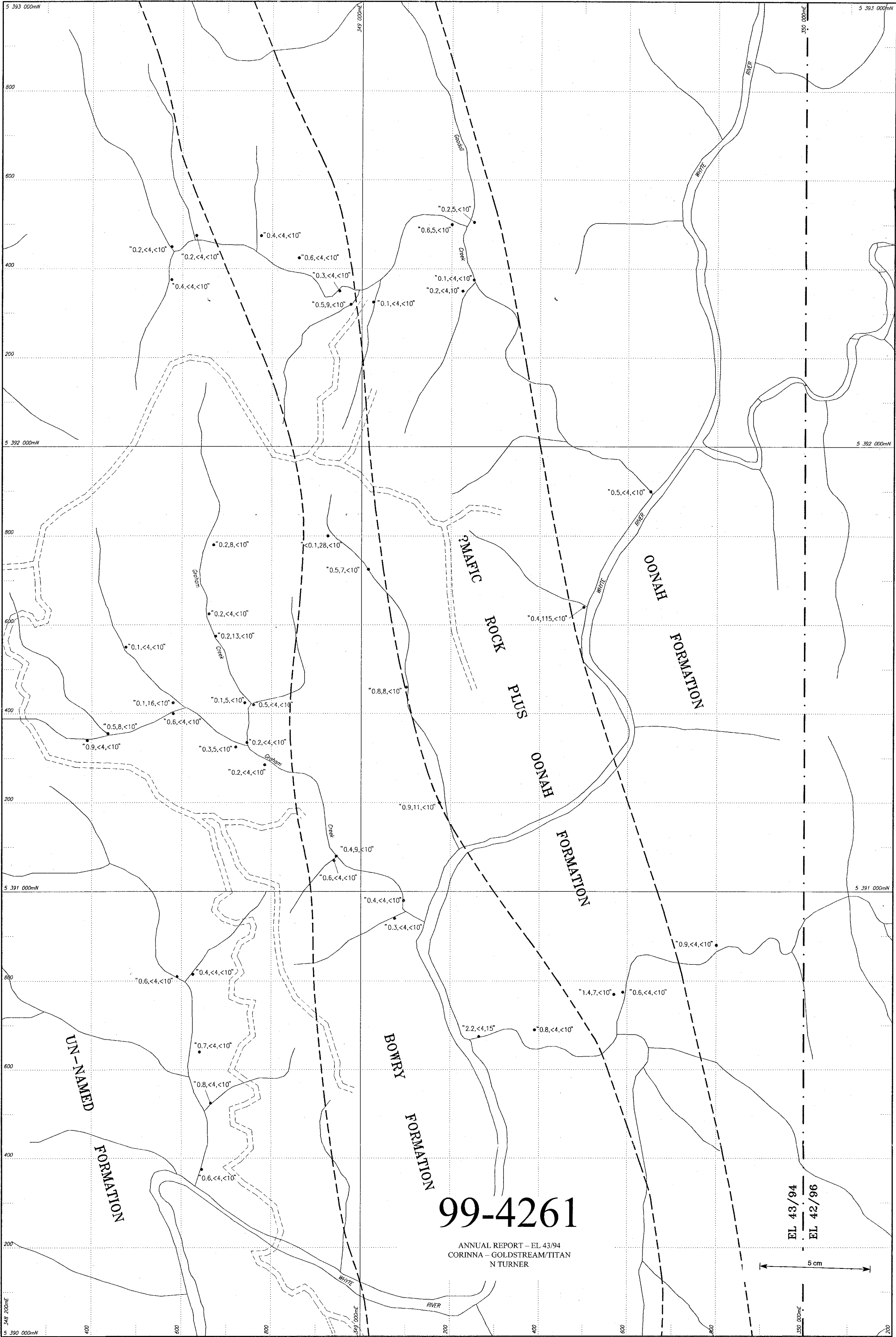
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GEOLOGICAL REFERENCE
Geological Survey of Tasmania:
Geological Atlas 1:50,000 Series
-Sheet 7914N. Corinna

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: MEREDITH 3439.



EL 43/94 CORINNA		Plan: 11
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
GRAHAM CREEK PROSPECT (Northern Extension of Rocky River Prospect) Access, Drainage, Geology, Stream Sediment Sample As, Sb & Bi (-80mesh)		File: 4394PL52.dwg
		Date: 23 July 1998
		Compiled: Nic Turner
		Drawn: Rocco Traverso ART Carto~Graphics
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Contractor: N.J. Turner Geological Services Pty. Ltd.		



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ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

REFERENCE

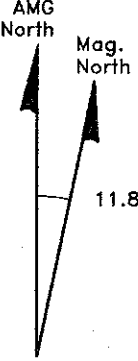
- EL 43/94 - EL 42/96 Boundary.
- Vehicle track, some overgrown.
- Stream sediment sample location with Mo,Sn,W All -80#, all ppm).
- Approximate rock formation boundary.

198115

GEOLOGICAL REFERENCE

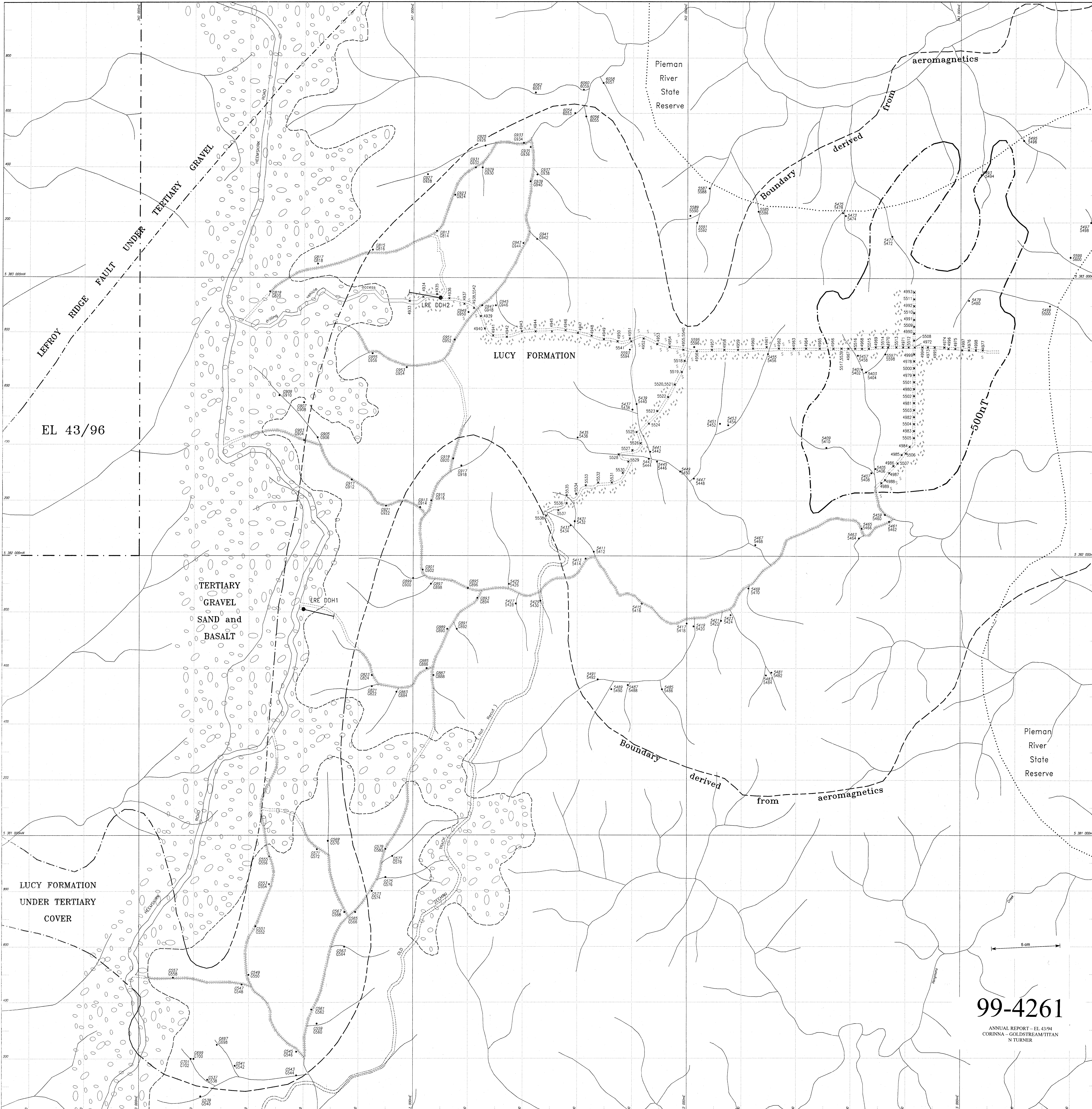
Geological Survey of Tasmania:
Geological Atlas 1:50,000 Series
-Sheet 7914N. Corinna

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: MEREDITH 3439.



0 100 200 300 400
Scale 1:5000

EL 43/94 CORINNA		Plan: 12
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
GRAHAM CREEK PROSPECT (Northern Extension of Rocky River Prospect) Access, Drainage, Geology, Stream Sediment Sample Mo, Sn & W (-80mesh)		File: 4394PL53.dwg Date: 23 July 1998 Compiled: Nic Turner Drawn: Rocco Traverso ART Carto~Graphics Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.		



REFERENCE

- EL 43/94 Boundary
- Pieman River State Reserve
- Road
- Drilling Track
- Walking Track or Cut Line
- Geological Boundary
- Fault
- Largest, most intense aeromagnetic anomaly in the Lucy Formation
- Diamond Drill Hole Location

• 6053
6056

****Note****

• 1972

6053

6056

• Stream sediment sample site
Odd Number: -80# Sample
Even Number: Panned Concentrate Sample

Samples with prefix G are 1996-1997 samples.

The following samples have been reversed:
6053 & 54, 55 & 65, 57 & 58, 59 & 60 and 61 & 62

Odd Number: Panned Concentrate Sample
Even Number: -80# Sample

C Soil auger sample site.

Mainly orange-brown clay soil.
Schist in auger holes.

0 100 200 300 400

Scale 1:5000

198116

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3238; LIVINGSTONE 3438;

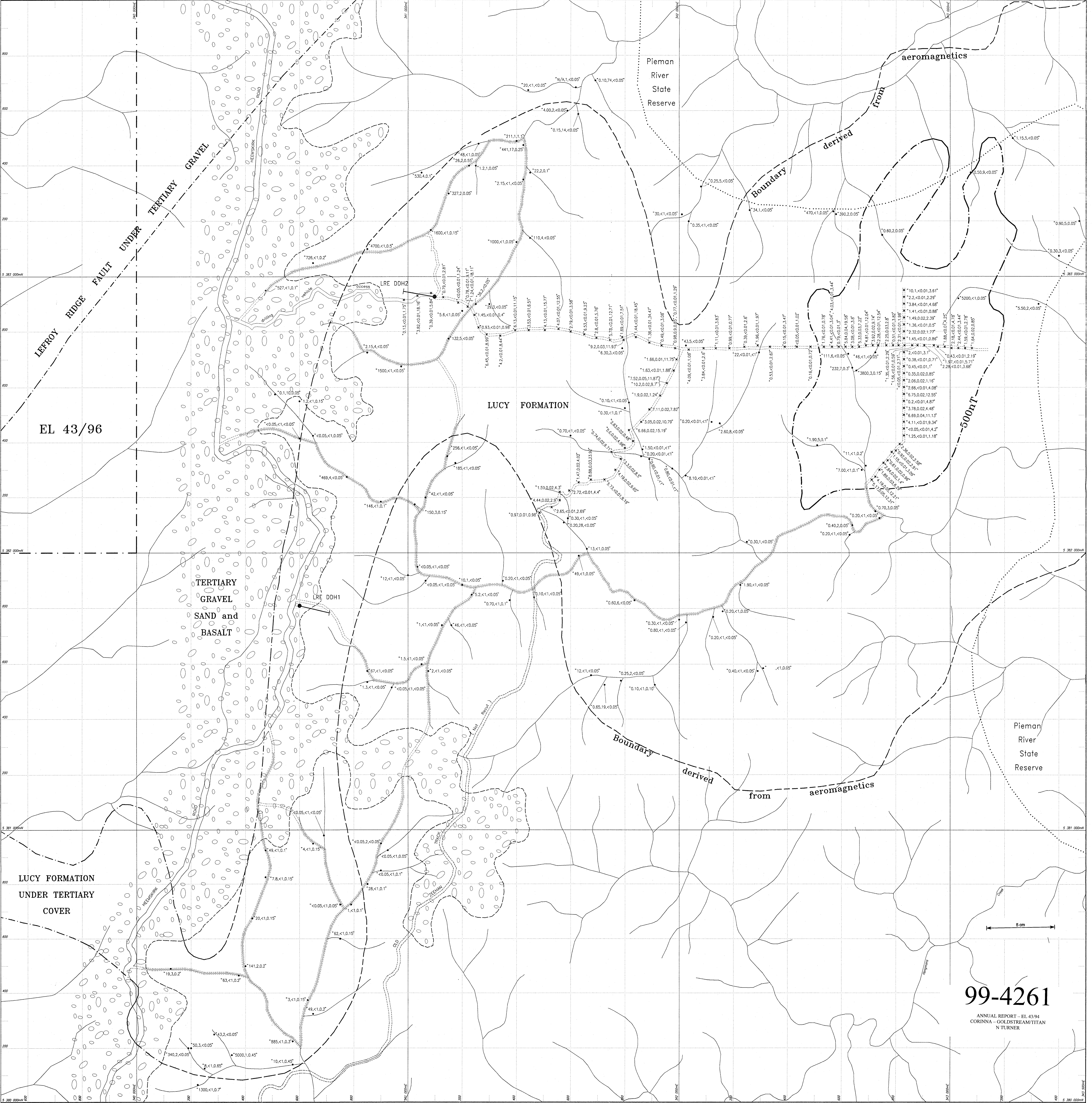
EL 43/94 CORINNA

GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture

LEFROY RIDGE EAST
ACCESS, DRAINAGE, LRE DDH 1&2
Geology, C Soil BCL and
Stream Sediment
Sample Locations

File: 4394p149.dwg
Date: 24 July 1998
Compiled: Nic Turner
Drawn: Rocco Traverso
ART: Carto-Geographics
Scale: 1:5,000

Contractor: N.J. Turner Geological Services Pty. Ltd.



REFERENCE

- EL 43/94 Boundary
- Pieman River State Reserve
- Road
- Drilling Track
- Walking Track or Cut Line
- Geological Boundary
- Fault
- Largest, most intense aeromagnetic anomaly in the Lucy Formation
- Diamond Drill Hole Location

Stream sediment sample location with Au*(pan.con., micrograms per 9 litres of -4cm gravel), Au(-80#.ppb), Ag(-80#.ppm).

C Soil auger sample site with Au(ppb), Ag(ppm), Cu(ppm) by BCL analysis.

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3258; LIVINGSTONE 3438;

0100200300400
Scale 1:5000

EL 43/94 CORINNA

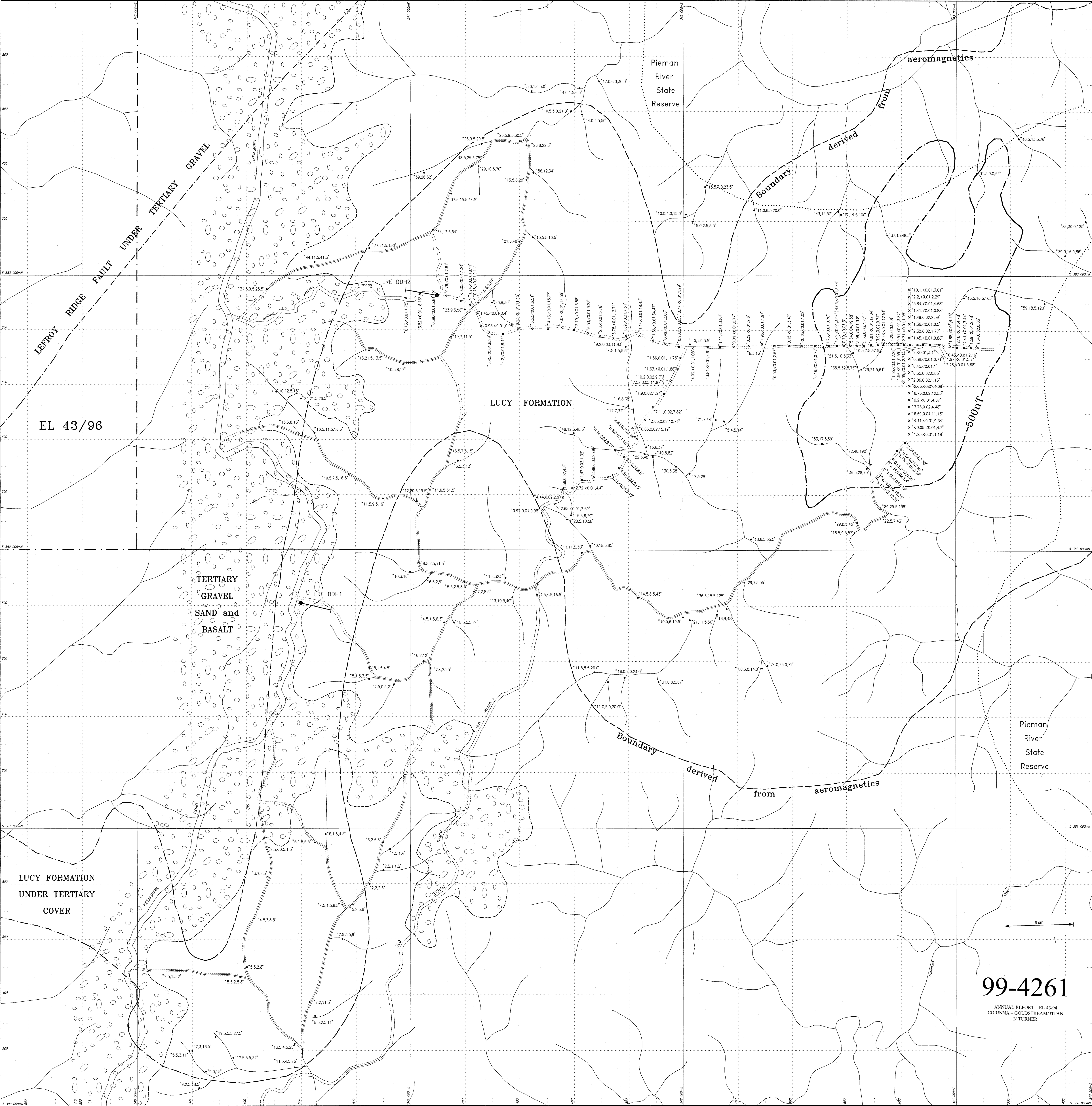
Plan: 14

GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture

LEFROY RIDGE EAST ACCESS, DRAINAGE, LRE DDH 1&2 Geology, C Soil BCL of Au,Ag,Cu, Stream Sediment Sample Au (pan.con.), Au & Ag (-80mesh)

File: 4394PL43.dwg
Date: 24 July 1998
Compiled: Nic Turner
Drawn: Rocco Travieso
ART: Carto-Graphics
Scale: 1:5,000

Contractor: N.J. Turner Geological Services Pty. Ltd.



REFERENCE

- EL 43/94 Boundary
- Piemman River State Reserve
- Road
- Drilling Track
- Walking Track or Cut Line
- Geological Boundary
- Fault
- Largest, most intense aeromagnetic anomaly in the Lucy Formation
- LRE DDH1
- Diamond Drill Hole Location

- *Cu,Pb,Zn* Stream sediment sample location with Cu,Pb,Zn All -80#, all ppm).
- *Au,Ag,Cu* C Soil auger sample site with Au(ppb), Ag(ppm), Cu(ppm) by BCL analysis.

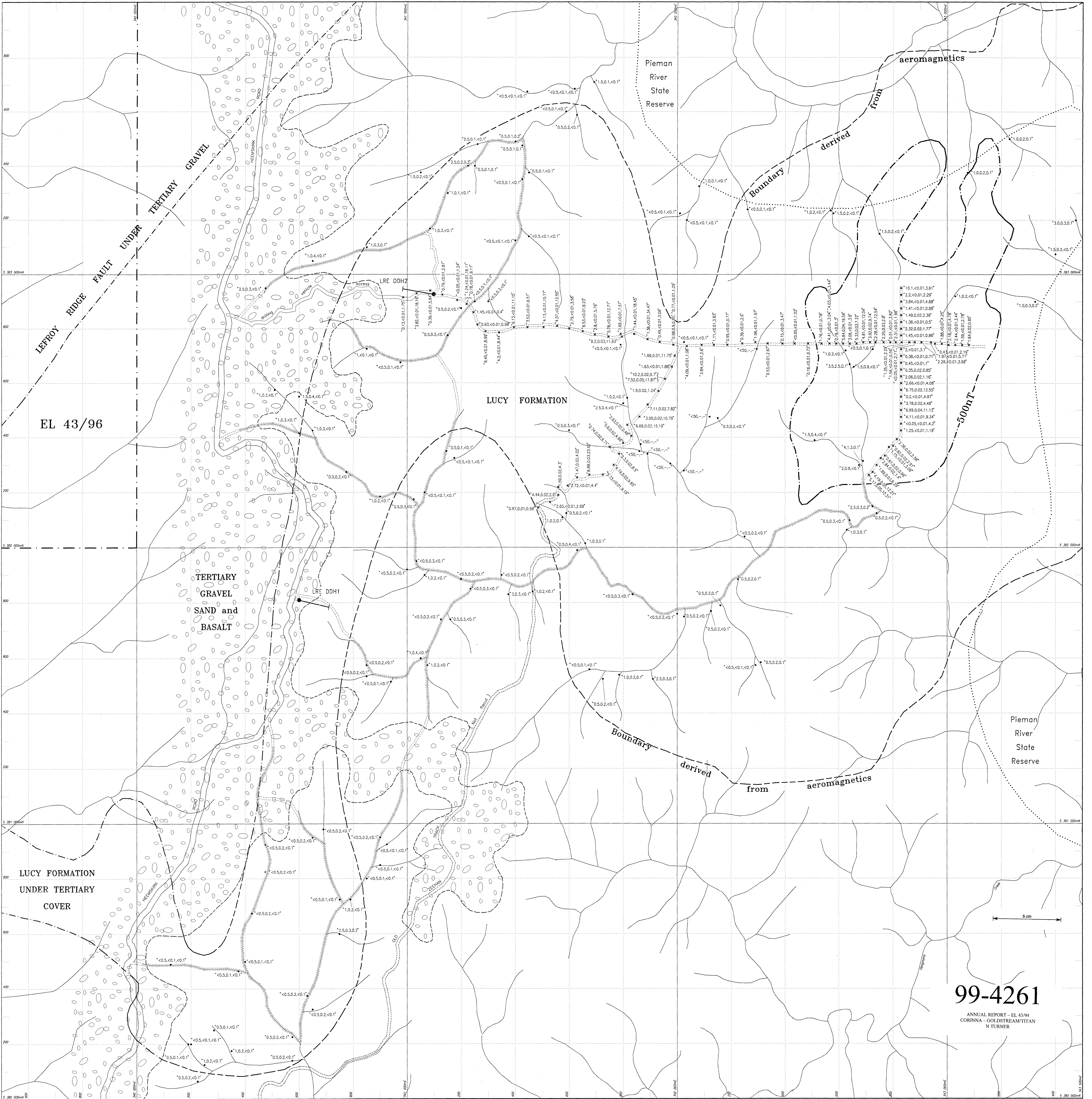
Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3238; LIVINGSTONE 3438;

198118



0 100 200 300 400
Scale 1:5000

EL 43/94 CORINNA		Plan: 15
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture		
LEFROY RIDGE EAST ACCESS, DRAINAGE, LRE DDH 1&2 Geology, C Soil BCL of Au,Ag,Cu. Stream Sediment Sample Cu, Pb & Zn (-80mesh)		File: 4394PL54.dwg Date: 24 July 1998 Compiled: Nic Turner Drawn: Rocco Travieso ART Carlo-Graphics Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.		



LUCY FORMATION
UNDER TERTIARY
COVER

TERTIARY
GRAVEL
SAND and
BASALT

LUCY FORMATION

aeromagnetics

derived

Boundary

99-4261

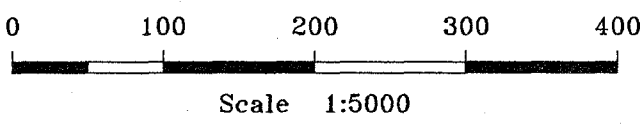
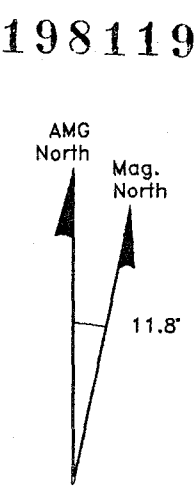
ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

REFERENCE

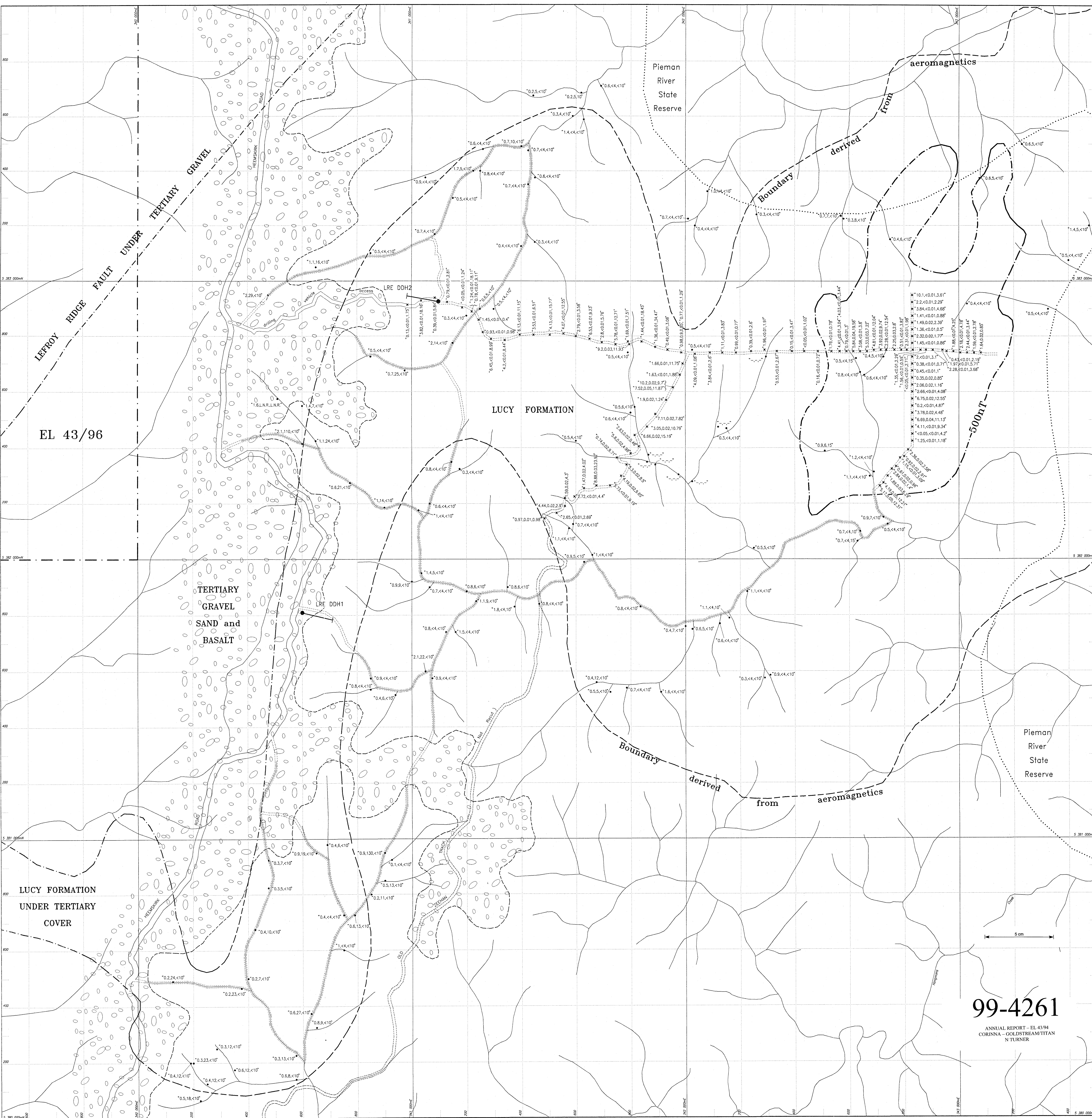
- EL 43/94 Boundary
- Pieman River State Reserve
- Road
- Drilling Track
- Walking Track or Cut Line
- Geological Boundary
- Fault
- Largest, most intense aeromagnetic anomaly in the Lucy Formation
- Diamond Drill Hole Location

- Stream sediment sample location with As,Sb,Bi All -80#, all ppm).
- C Soil auger sample site with Au(ppb), Ag(ppm), Cu(ppm) by BCL analysis.

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3238; LIVINGSTONE 3438;



EL 43/94 CORINNA		Plan: 16	
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture			
LEFROY RIDGE EAST ACCESS, DRAINAGE, LRE DDH 1&2 Geology, C Soil BCL of Au,Ag,Cu. Stream Sediment Sample As, Sb & Bi (-80mesh)		File:	4394PL55.dwg
		Date:	24 July 1998
		Compiled:	Nic Turner
		Drawn:	Rocco Traverso ARTi-Corpo-Graphics
		Scale:	1:5,000
		Contractor:	N.J. Turner Geological Services Pty. Ltd.



REFERENCE

- EL 43/94 Boundary
- Pieman River State Reserve
- Road
- Drilling Track
- Walking Track or Cut Line
- Geological Boundary
- Fault
- Largest, most intense aeromagnetic anomaly in the Lucy Formation
- LRE DDH1
- Diamond Drill Hole Location

- Mo,Sn,W
- Au,Ag,Cu
- C Soil auger sample site with Au(ppb), Ag(ppm), Cu(ppm) by BCL analysis.

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3238; LIVINGSTONE 3438;



99-4261	
ANNUAL REPORT - EL 43/94 CORINNA - GOLDSTREAM/TITAN N TURNER	
EL 43/94 CORINNA	Plan: 17
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture	
LEIFROY RIDGE EAST ACCESS, DRAINAGE, LRE DDH 1&2 Geology, C Soil BCL of Au,Ag,Cu. Stream Sediment Sample Mo, Sn & W (-80mesh)	
File: 4394PL56.dwg	Date: 24 July 1998
Compiled: Nic Turner	Drawn: Rocco Travieso
Scale: 1:5,000	Contractor: N.J. Turner Geological Services Pty. Ltd.

198121

99-4261(A)

Terry Leach & Co

Exploration Geologists, Petrologists and Consultants

- 4 JAN 1999

VOL 3 of 3

TASMANIA

Appendix 10 of Turner, N.J. 1998 EL43/94 Corinna, western Tasmania. Annual Report to 4.1.99. Goldstream Mining NL and Titan Resources NL. Volume 3 of 3 of the annual report.

PETROGRAPHIC ANALYSES OF FOUR ADIT SAMPLES FROM THE LUCY SPUR PROJECT, TASMANIA

Prepared for

GOLDSTREAM MINING N.L.

By

TERRY LEACH and GRAEME CORLETT

In May 1998

MICROFILMED
FICHE No.014863-68TLC Report:
(Reference:98025
660210)

99-4261(A)

ANNUAL REPORT - EL 43/94
CORINNA - GOLDSTREAM/TITAN
N TURNER

VOL 3 of 3

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1. INTRODUCTION

1.1 Geological Setting

A batch of four samples were collected from old adits in Goldstream Mining's Lucy Spur Project area Tasmania and submitted by Dave Edgecombe for petrographic analyses. A letter accompanied the samples and has been attached in the Appendix at the back of this report. In this letter the geological and geochemical setting of the samples has been described and this can be summarised as follows.

At Lucy Spur, gold mineralisation (up to +100 g/t) is hosted in narrow fracture controlled quartz veins at the contact between porphyritic granitoid intrusions and Neoproterozoic muscovite-quartz and chlorite-quartz schists (Arthur Metamorphic Complex). At the margins of the intrusion are polymict breccias, with textures suggestive of abundant fluid flow (see accompanying photos).

The granitoid rocks are known from Neoproterozoic, Cambrian and Devonian and are contained within a high strain zone known locally as the Arthur Lineament. The intrusions occur in an area with linear magnetic features (?ironstones) and intersecting fracture patterns. It is proposed that the area has potential to host gold deposits in a variety of settings (e.g. Granites - Tanami terrain).

Associated with the gold is arsenic (up to 250ppm), silver (to 13 ppm), copper (to +600ppm), antimony (to 1250 ppm), molybdenum (to 25 ppm) and bismuth (to 20ppm). Lead, zinc, tin and tungsten are low and show no apparent correlation with gold.

1.2 Scope of Work

Polished thin sections were made from all four samples. However since no opaque minerals were identified only petrographic descriptions were carried out. A summary of these analyses is presented in Table I, and the petrographic descriptions are given in Appendix I. Photomicrographs of significant textures are illustrated in Appendix II.



Plate 1: Lucy Spur adit showing brecciated contact between granitoid porphyry intrusion and host schist.

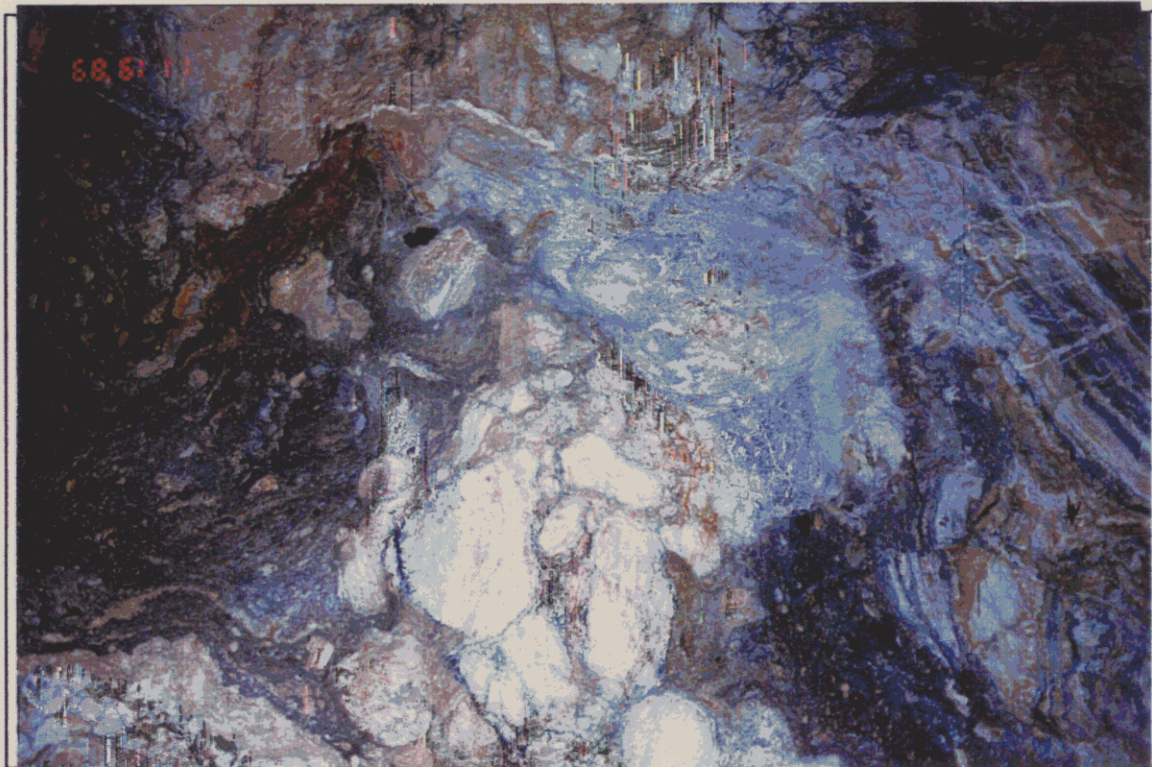


Plate 2: Lucy Spur adit. Intense fluidsied brecciation at porphyry-schist contact.

Table 1: SUMMARY OF ALTERATION AND MINERALISATION FROM LUCY SPUR , NORTHWEST TASMANIA

Sample Number	Lithology	Alteration Replacement	Deposition
LS 9801	Medium to fine-grained intrusive (?porphyritic) lithology	Q (ab) +And (min)→ Ms/Ser (ab) + Rt (tr) +/-→ Ch (ab) → ?K (tr)	1) Q + Ms/Ser +/-→ Ch (?altered magmatic vein). 2) Ms/Ser → Ch (cavities). 3) Ch (veinlet).
LS 9802	A crushed medium to fine-grained intrusive (?porphyritic) lithology.	Q (ab) (± Cb incl. (tr) ± Ap incl. (tr)) → Ms/Ser (ab) + Rt (tr) +/-→ Ch (min)	1) Q ± Rt (± Cb incl.) →Ms/Ser ± Rt (tr) (vein/veinlets). 2) Ser (cavities)
LS 9803	A banded micro intrusive (?porphyritic)	Q (ab) ± Rt (tr) → Ms/Ser (mod. ab) + Rt (tr) +/-→ Ch (ab)	1) Ms/Ser → Ch (cavities)
LS 9804	A strongly sheared quartz-stockwork veined, pervasively altered medium to fine-grained micro intrusive lithology	Q (ab) (+ Rt incl (tr) ± To incl. (tr)) → Ms/Ser (ab) + Rt (tr)	1) Q →Ms/Ser (stockwork veining). 2) Ser +Rt + To (shear veining / cavities)

Mineral Abbreviations:

And-Andalusite; Ap-Apatite; Cb-Carbonate; Ch-Chlorite; Ms-muscovite; Q-Quartz; Rt-Rutile; Ser-Sericite; To-Tourmaline

2. DISCUSSIONS AND COMMENTS

2.1 Lithologies

Very intense alteration has almost totally masked primary textures, which makes positive identification of original lithologies difficult. However scattered tabular outlines in all four samples are suggestive of possible pseudomorphed crystals after feldspar and mafic phenocrysts. The matrix to the rocks has been totally replaced, however the medium grained granular nature of secondary minerals may reflect an equigranular primary fabric. It is therefore inferred that the host rock is a porphyritic micro-intrusion and are probably the host porphyry granitoid rocks described in the field.

2.2 Alteration and Vein Development

The four samples have all undergone total replacement to a phyllic assemblage of quartz - muscovite / coarse sericite - pyrite indicative of alteration by a high temperature (>250-300°C) less than neutral pH (\approx 5) hydrothermal fluid. Trace andalusite is encountered in LS 9801 which indicates fluids in excess of 300-350°C. The occurrence of trace inclusions of tourmaline, apatite and topaz in the secondary quartz grains reflect a fluid which is rich in boron, fluorine, and chlorine. These elements are common in magmatic brines which exsolve from felsic melts.

Subparallel (sheeted) to random (stockwork) networks of fractures are infilled by quartz + muscovite or coarse grained sericite and/or chlorite. The samples have undergone oxidation, however local cubic cavities indicate that coarse pyrite was deposited in the veins. Trace carbonate inclusions occur in some quartz grains, suggesting a moderately high CO₂-content of the hydrothermal fluid.

Fluid inclusions in the vein quartz are only moderately abundant, with rare 1° inclusions and abundant 2° inclusions being both liquid- and vapour-rich, indicative of two-phase (boiling) conditions during quartz deposition. Daughter crystals are absent which shows that the fluid was not hypersaline (i.e. < 25 wt% NaCl), and therefore was not sourced from the granodiorite which hosts the veins, at least not from the level currently exposed in the adits.

2.3 Conditions of Alteration and Vein Development

The style of alteration and veining in these four samples is characteristic of quartz-sulphide systems which are formed around the margins of a source melt for the magmatic component to the hydrothermal fluids. The fluid was moderately high temperature (>300°C) two phase vapour-rich fluid with a high gas content whose composition is characteristic of exsolution from a felsic melt. The high bismuth, moderate molybdenum and copper, with locally high grade gold are also indicative of quartz-sulphide systems. The high Sb:As ratio is unusual.

It is interpreted that magmatic fluids have exsolved from a deep parent melt to the outcropping porphyritic intrusion and migrated along reactivated contacts of these porphyry bodies. The target would be high grade quartz-sulphide vein systems at these contacts. However these systems are notorious for supergene enrichment in oxidised veins. Therefore caution must be taken in evaluating grades in deeper sulphide veins from oxidised samples.

APPENDIX I: PETROGRAPHIC DESCRIPTIONS AND XRD CHART

Sample Number: LS9801

Location: Lucy Spur

Rock Name:

A quartz-andalusite-sericite-sericite-rutile-altered medium to fine-grained ?intrusive lithology

Hand Specimen Description:

A finely vuggy, cream to weakly mottled dark green colored, silicified sericite-chlorite-altered ?intrusive lithology.

Thin Section Description:

Lithology, Textures And Minerals

Intense alteration and inferred recrystallisation strongly masks primary textures and mineralogy. Scattered subhedral tabular shapes 0.5-1mm (20-30%) modified by secondary phyllosilicate mineralogy enclosed within medium to fine-grained secondary quartz, are suggestive of possible pseudomorphed crystals after feldspar and mafic minerals. The modified textures are possibly after an intrusive lithology of unknown composition.

Alteration:

Alteration Intensity

Pervasive

Replacement Mineralogy

Possible feldspar and mafic minerals; completely replaced by muscovite and/or well crystalline Sericite + + fine-grained Quartz ± red brown Rutile micrograins. Minor well crystalline Chlorite locally overgrows the sericite and quartz.

Rest of ?intrusive lithology : replaced by secondary subhedral medium to fine granular Quartz (<2.5mm) + rare intergrown Andalusite ± disseminated Rutile. Andalusite forms as fine-grained rectangular crystals or medium sized aggregates (<3.5mm) consisting of subhedral to anhedral fine grains intergrown with the quartz. Sericite ± Chlorite locally overgrow the andalusite. A few fine andalusite grains are also overprinted by a colourless low birefringent clay probably Kaolinite.

The quartz is host to occasional micro-inclusions of Apatite , Carbonate and possible subhedral Topaz. Occasionally resolvable secondary inclusions are liquid-rich with the vapour phase occupying from 15-25 vol.% of cavity. A few larger possible primary inclusions are also liquid-rich with somewhat larger vapour bubbles 30-40vol%.

Moderately abundant subhedral to anhedral shaped cavities up to 4mm across are defined within the quartz.

Replacement Mineral Abundances

Quartz (50-60%), Sericite (15-25%), Chlorite (10-15%), Andalusite (1-2%), Rutile > Tpoaz > Apatite (0.005%)

Deposition:**Sequences Of Deposition**

- 1) i) ?Veining : Two adjoining areas <8mm wide within the section are possible disrupted vein fragments which predate recrystallisation. These areas consist of fine equigranular textures consisting of Quartz + Sericite ± overgrowing Chlorite. Cavities in these areas are sealed with well crystalline Sericite ± overgrowing well crystalline Chlorite. Chlorite also seals an irregular veinlet cutting and bordering one the equigranular areas. Abundant 2° and rare 1° fluid inclusions are mainly liquid-rich with some vapour-rich inclusions.
- ii) Cavities; several are lined with Sericite and overgrowing Chlorite

Deposition Mineral Abundances

Quartz (5-7%), Sericite (4-5%), Chlorite (1-2%).

Mineralisation:

1. Rutile. Deep red brown rutile occurs as rare fine to micro grained subhedral to euhedral rods disseminated within quartz and sericite alteration. It commonly forms inclusions in the quartz.

Mineral Abundances

Rutile (<0.005%).

Comments:

A quartz-andalusite-sericite-sericite-rutile altered medium to fine-grained ?intrusive lithology. Secondary mineralogy is indicative of relatively high temperature alteration

Paragenesis

quartz	----->
andalusite	---->
sericite	----->
chlorite	---->
rutile	---->
?kaolinite	---->

Sample Number: LS 9802

Location: Lucy Spur

Rock Name:

A crushed, quartz-sericite veined, quartz-sericite \pm chlorite-rutile-altered, medium to fine-grained ?porphyritic intrusive lithology.

Hand Specimen Description:

A cream, beige and weakly reddish coloured silicified sericite altered ?intrusive lithology.

Thin Section Description:

Lithology, Textures And Minerals

A strongly altered, fragmented sample with primary textures and mineralogy mostly obliterated. In places, a few matrix-supported, entire, irregular angular fragments up to 8mm across indicate a primary intrusive or porphyritic texture consisting of pseudomorphed medium to fine-grained tablets (2.5mm) probably after feldspar and inferred mafics minerals scattered within a silicified groundmass / matrix of secondary + ?primary well developed quartz. Rare sphene euhedra are enclosed within the quartz. The rest of the lithology is strongly crushed to small altered fragments.

Alteration:

Alteration Intensity

Pervasive

Replacement Mineralogy

Primary non quartz crystals; replaced by Quartz + Muscovite and/or well crystalline Sericite \pm overgrowing Chlorite \pm Rutile micrograins

Groundmass ; strongly silicified to fine granular Quartz with minor overgrowing Sericite/Muscovite and trace Chlorite and occasional disseminated Rutile micrograins hosted with the quartz or sericite. The quartz is also host to rare Apatite and Carbonate micrograins.

Crushed rock: replaced by fine-grained Quartz + well crystalline Sericite \pm minor overgrowing Chlorite \pm relatively common disseminated Rutile micrograins

Replacement Mineral Abundances

Quartz (50-60%), Sericite (20-30%), Chlorite (3-5%), Rutile (0.005-0.01%), Apatite (<0.001%), Carbonate (<0.001%)

Deposition:**Sequences Of Deposition**

- 1) Veining. A pre deformation vein > 1mm wide on edge of section is sealed with dogtooth-textured Quartz and overgrown Muscovite and/or by well crystalline Sericite. Occasional Rutile micrograins occur in both quartz and sericite. The vein has been partly disrupted. The quartz is host to,
- i) occasional liquid-rich primary fluid inclusions with vapour phase occupying 35-45vol of cavity;
 - ii) locally abundant liquid-rich secondary fluid inclusions with a smaller vapour bubble (10-20vol%);
 - iii) trace Carbonate micrograins

Veinlets: Irregular Quartz ± Sericite veinlets suggestive of a stockwork system also cut the rock but have been strongly disrupted by deformation.

Residual cavities: within fragmental matrix are sealed with well crystalline Sericite.

Deposition Mineral Abundances

Quartz (5-7%), Sericite (2-3%), Rutile (0.001%).

Mineralisation:

1. Rutile. Occurs as euhedral to subhedral micrograins disseminated altered clasts, matrix and quartz-sericite veining. The rutile is deep red brown coloured.

Mineral Abundances

Rutile (0.005-0.01%).

Comments:

A crushed, quartz-sericite veined, quartz-sericite altered, medium to fine-grained ?porphyritic intrusive lithology.

Paragenesis

quartz	---->
sericite	---->
chlorite	---->
rutile	---->
apatite	---->
carbonate	---->

Sample Number: LS 9803

Location: Lucy Spur

Rock Name:

A banded quartz-sericite-chlorite-rutile ?porphyritic micro intrusive.

Hand Specimen Description:

A pale to dark green coloured, silicified sericite-chlorite-altered fine-grained intrusive lithology with pale sericite banding up to 8mm wide, leached crystal banding possibly after fine-grained pyrite and quartz-sericite-chlorite -altered veining up to 10mm wide.

Thin Section Description:

Lithology, Textures And Minerals

A banded, intensely altered lithology with primary textures and mineralogy strongly masked by alteration. The bands observed in hand specimen are defined in thin section either by,

- i) the variation in size distribution of secondary minerals dominated by granular quartz and sericite-chlorite altered crystals
- ii) or by the relative abundance of chlorite and sericite within similar textured rock.

The rock is dominated by a granular texture defined by altered subhedral tablets typically (0.5-1.0mm; 30-40%) suggestive of feldspar and mafic minerals distributed in moderate abundance within secondary quartz replacement. This texture is suggestive of a ?porphyritic micro-intrusive. The secondary quartz is host to rare zircon microprisms inferred to be a primary mineral. Occasional apatite inclusions in quartz are possible primary and /or secondary.

A band 8-10mm wide cuts the micro intrusive texture and is composed of quartz-sericite alteration with similar but finer grained textures to the host lithology. This band is inferred to be a late magmatic vein.

Alteration:

Alteration Intensity

Pervasive

Replacement Mineralogy

Non quartz crystals: completely replaced by Muscovite and/or well crystalline Sericite + fine-grained Quartz ± Rutile micrograins with strong Chlorite overprinting of sericite.

Matrix: replaced by equigranular Quartz (~0.3-0.6mm in coarser textured lithology and ~0.1mm in the finer grained band) flecked with Sericite and Chlorite. These alteration minerals typically host scattered disseminated Rutile micrograins. The quartz is also host to rare microprisms of ?secondary Apatite, very rare Tourmaline and micro tablets of Anhydrite. Scattered fine cubic shapes replaced by Quartz + Sericite + Chlorite may possibly represent Fe Ti oxides or an early replaced pyrite.

A pale band in hand specimen is caused by more abundant Sericite relative to chlorite within the coarser textured lithology.

Replacement Mineral Abundances

Quartz (50-60%), Chlorite (25-35%), Sericite / Muscovite (10-15%), Rutile (0.005%)

Deposition:**Sequences Of Deposition**

- 1) Cavities: defined by euhedral to subhedral quartz terminations are sealed with well crystalline Sericite or Chlorite. In places, chlorite partially replaces sericite. Some cavities possibly at leached crystal sites are open space with subhedral tabular, subhedral rectangular and anhedral shapes. It is uncertain due to lack of well defined shapes whether the leached crystals included pyrite; replaced cubic shapes elsewhere suggest there was an early stage of disseminated pyrite.

Deposition Mineral Abundances

Chlorite (3-5%), Sericite (2-3%).

Mineralisation:

1. Rutile Occurs as deep red brown euhedral micrograins disseminated within quartz-sericite-chlorite alteration

Mineral Abundances

Rutile (0.005-0.01%).

Comments:

A banded quartz-sericite-chlorite-rutile ?porphyritic micro intrusive.

Paragenesis

quartz ---->
sericite ---->
chlorite ---->
rutile ---->

Sample Number: LS 9804

Location: Lucy Spur

Rock Name:

A strongly sheared, quartz-stockwork veined quartz-sericite-rutile altered medium to fine-grained micro intrusive lithology

Hand Specimen Description:

A cream to beige coloured, strongly sheared, fragmented, silicified sericite-altered ?intrusive in a sericitic shear vein matrix with pale grey quartz veining up to 8mm wide

Thin Section Description:

Lithology, Textures And Minerals

An intensely altered, veined brecciated micro intrusive lithology. Primary textures and mineralogy are masked by alteration and deformational shearing and fracturing and accompanying veining. Relict intrusive textures are recognised in the form of medium to fine-grained pseudomorphed tablets inferred to be after feldspar and mafic minerals enclosed within a granular secondary quartz matrix. These relict textures are similar to those observed in sample 2.

Alteration:

Alteration Intensity

Pervasive

Replacement Mineralogy

Non quartz crystals: completely replaced by Muscovite and/or well crystalline Sericite + fine-grained Quartz ± Rutile micrograins

Matrix ; replaced by secondary granular Quartz + overgrowing well crystalline Sericite. Fine-grained cubic and lath-shaped crystals within in the quartz and replaced by pitted Quartz ± Sericite/Muscovite ± Rutile are possibly after Fe Ti oxides and an early phase of pyrite. Trace amounts of Tourmaline microprisms are hosted locally within quartz

Replacement Mineral Abundances

Quartz (25-35%), Sericite (15-25%), Rutile (<0.001%)

Deposition:

The rock has been subject to quartz stockwork veining and deformation shearing. fracturing and sericite veining

Sequences Of Deposition

- 1) Veining. → A stockwork system of Quartz veining composed of irregular veins and veinlets up to 8mm across is sealed with medium to fine granular Quartz locally overgrown by well crystalline Sericite. Cavities bordering the veining are sealed with relatively coarse-grained Sericite/ Muscovite. Areas of coarser-grained vein quartz exhibit shadowy extinction indicative of deformational strain. Fine grained laths and cubic shaped crystal inclusions hosted within the quartz and replaced by pitted Quartz ± Sericite are possibly after early Pyrite.
The coarser grained Quartz is host;
 - i) to occasional resolvable primary liquid- and vapour-rich fluid inclusions with vapour bubbles occupying up to 50 % of cavity and
 - ii) abundant secondary liquid- and vapour-rich fluid inclusions
- 2) Shear veining. The intrusive is strongly disrupted by shear deformation with development of subparallel veining sealed with well crystalline Sericite + fine-grained Quartz + disseminated Rutile and Tourmaline micrograins. The sericite typically encloses fragments of the intrusive.

Deposition Mineral Abundances

Sericite (20-30%), Quartz (15-20%), Rutile (0.005-0.01%) , Tourmaline (<0.005%)

Mineralisation:

1. Rutile. Euhedral to subhedral very small grains to micrograins are disseminated within quartz and sericite alteration / deposition. A vague irregular band of rutile micrograins is enclosed within the quartz stockwork veining. The crystals are deep red brown.

Mineral Abundances

Rutile (0.05-0.01%).

Comments:

A strongly sheared, quartz-stockwork veined quartz-sericite-rutile-tourmaline altered medium to fine-grained micro intrusive lithology. The tourmaline is pleochroic green to pale (Fe-rich schorl~~ite~~) and is indicative of a magmatic contribution to the hydrothermal fluids.

Paragenesis

quartz	--- -->
sericite	- - - - ->
tourmaline	- - - - ->
rutile	- - - - ->c

APPENDIX II: PHOTOMICROGRAPHS

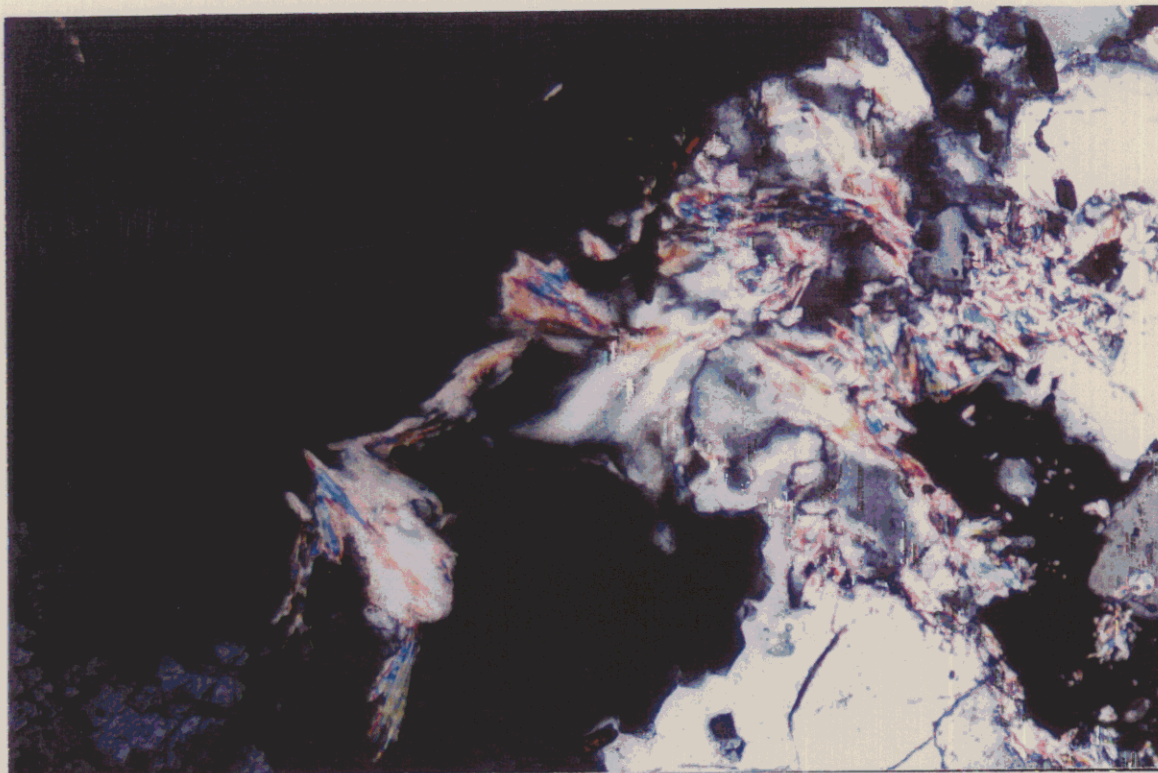


Plate 3: LS 9801 . Andalusite aggregate intergrown with quartz and overgrown by sericite and minor chlorite. Red-brown rutile microprisms are included in the andalusite, quartz and sericite.. Apatite microprisms are included in quartz. Field of view 1.3mm (XPL).

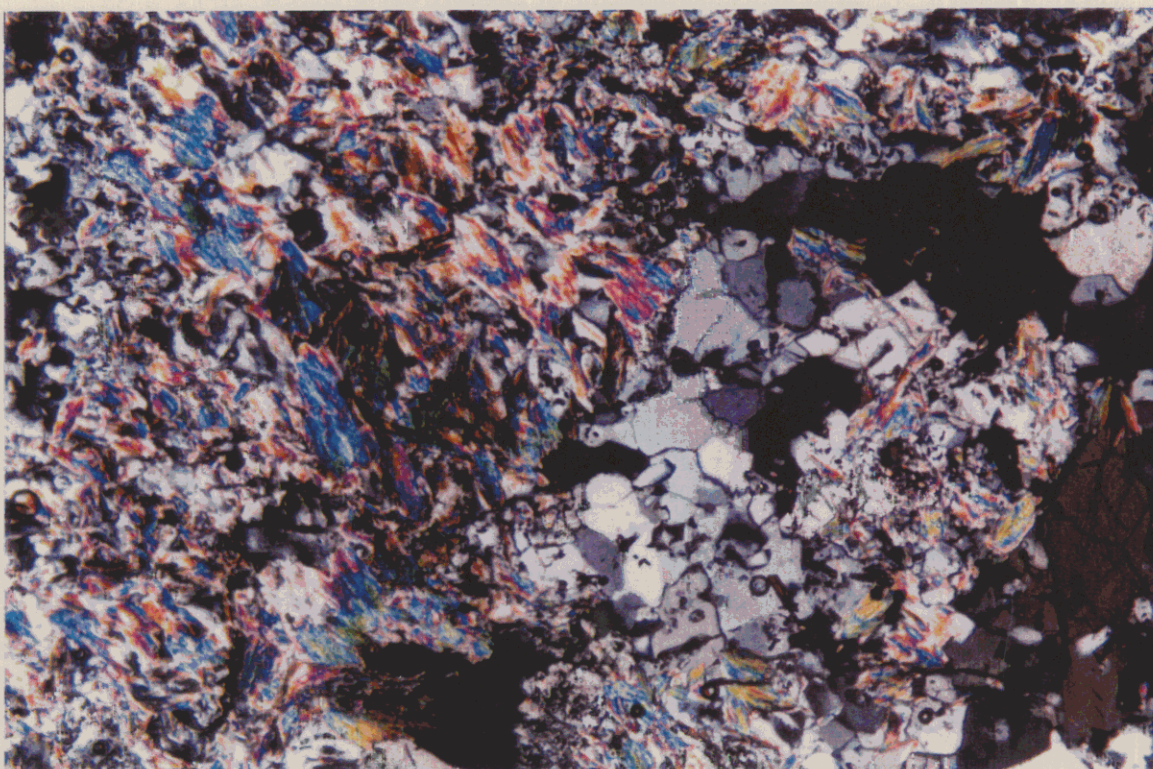


Plate 4: LS 9802. Intrusive fragment within sericite-altered crushed wallrock matrix. Fragment consists of pseudomorphed quartz + sericite-altered tablet enclosed in matrix of secondary granular quartz. Field of view 2.0mm (XPL).

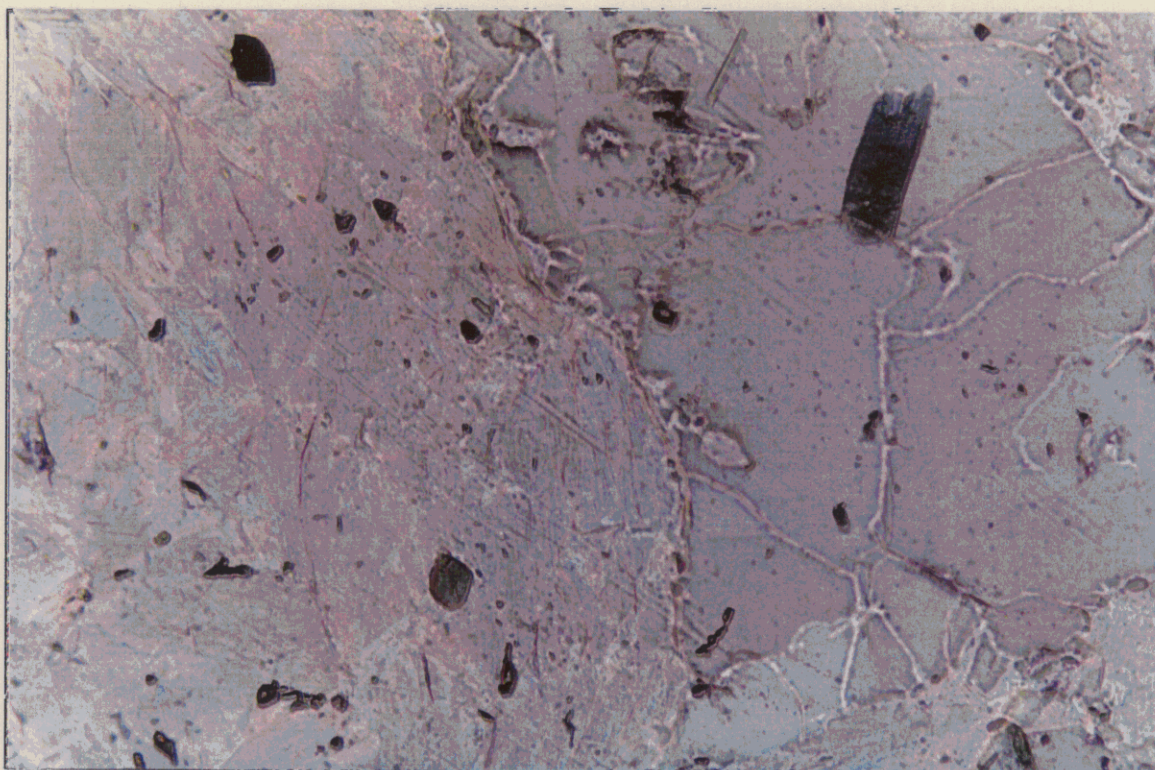


Plate 5: LS 9804. Intrusive fragment altered to sericite + quartz cut by sericite + quartz shear vein. Microprisms of tourmaline are hosted within quartz alteration and sericite veining. Field of view 1.3mm.

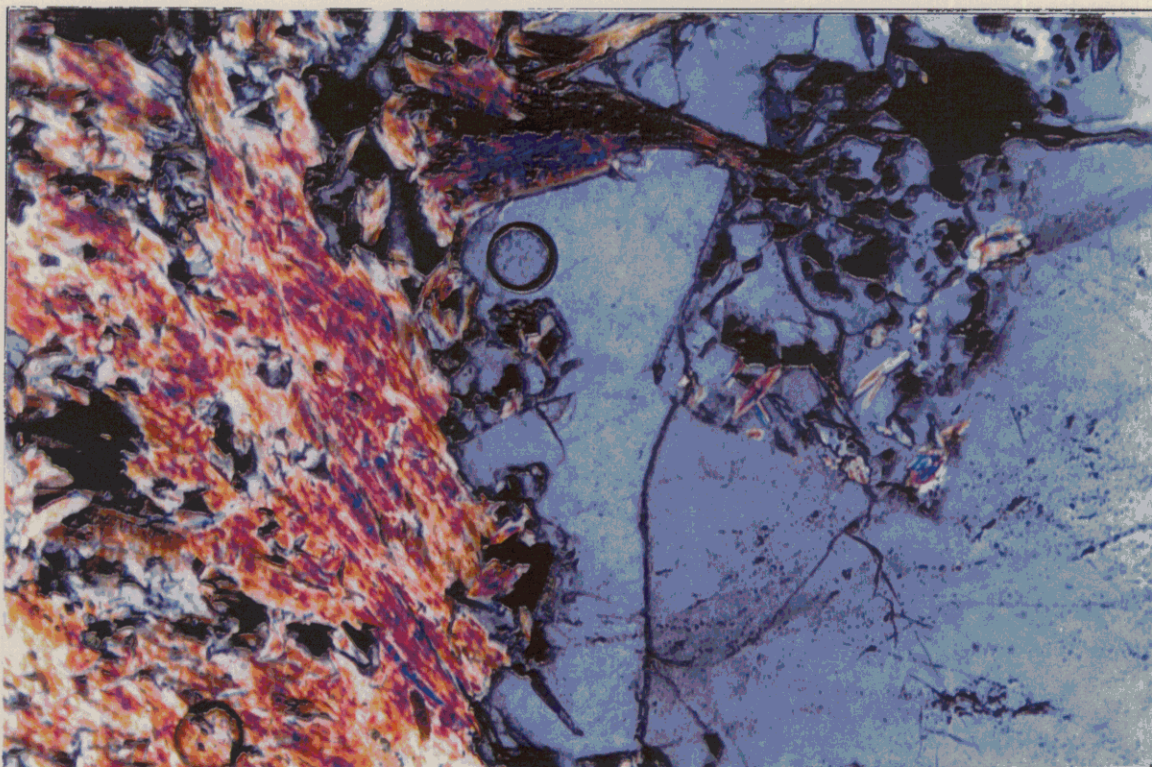


Plate 6: LS 9804. Part of euhedral ?pyrite pseudomorphed by quartz + sericite in quartz vein bordered by shear sericite veining. Field of view 1.3mm (XPL)

APPENDIX III: CLIENT DATA



GOLDSTREAM MINING N.L.

A.C.N. 009 129 560

Rec'd 27.3.98

660210

198141

20 March 1998

Terry Leach and Company
PO Box 47295
Ponsonby Auckland
NEW ZEALAND

Dear Terry,

Accompanying this note are four samples for petrographic study from our Lucy Spur Project in Tasmania. All samples are from old adits located by our field team following up drainage geochemical gold anomalies.

Lucy Spur is located in northwest Tasmania, approximately 20 kilometres SSW of the Savage River magnetite mine. Host sequence is Neoproterozoic quartz-muscovite schist, chlorite schist, pelite schist, metabasalt and magnetite-pyrite-quartz-amphibole "iron formations". These rocks ("Arthur Metamorphic Complex") are contained (here) within a high strain zone, known locally as the Arthur Lineament. Granitoids are known from the late Neoproterozoic, Cambrian and Devonian – others may be present but have not yet been recognised.

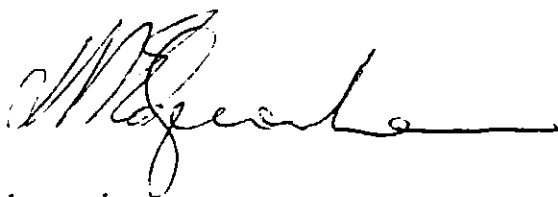
At Lucy Spur muscovite-quartz schist and chlorite-quartz schist are intruded by a porphyritic granitoid which is exposed in the old adits. As you can see from the enclosed photos, the margins of the intrusive are polymict breccias, with textures suggestive of abundant fluid flow. The granitoid and adjacent sediments host narrow fracture controlled quartz veins with casts after sulphide. Gold grade in veins ranges from zero to +100g/t. Associated with gold is arsenic (to 250ppm), silver (to 13ppm), copper (to +600ppm), antimony (to 1250ppm), moly (25) and bismuth (20). Lead, zinc, tin and tungsten are low and show no apparent correlation with gold.

Regrettably we do not have any fresh samples of granitoid – even the adits are in oxidised material. Nonetheless it appears there is a link between the intrusive (age unknown) and mineralisation. As the intrusive occurs in an area with linear magnetic features (? ironstones) and intersecting fracture patterns (from magnetics), we believe the area has potential to host gold deposits in a variety of settings (cf. Granites-Tanami terrain)

What we are seeking to do currently is refine our geological models to integrate with geochemistry and geophysics. The current samples, regrettably oxidised, may help us come to grips with alteration signatures related to mineralisation. (Note we also are currently undertaking a regional magnetic interpretation to identify shears, intrusives, potential dilatant zones etc.)

This is a difficult area to work in, with very thick vegetation and little outcrop away from streams. We need to apply good science if we are to be successful and therefore look forward to seeing what you can resolve from these samples.

Regards,

A handwritten signature in black ink, appearing to read 'Dave Edgecombe', with a long horizontal flourish extending to the right.

Dave Edgecombe

Encl.