

Your reference
Our reference

356C

8 July, 1997

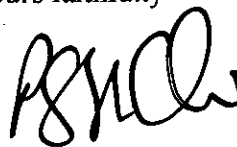
Ms Georgia Beyer
NEFA
123 Keen Street
LISMORE NSW 2480

Dear Georgia

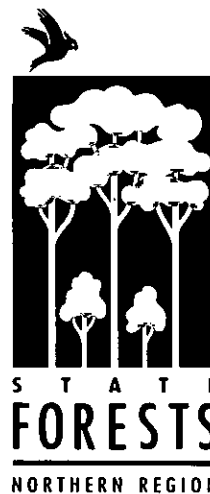
RE: COMPARTMENTS 73 - 78 CAMIRA STATE FOREST

Please find copy of Flora & Fauna survey conducted by Rob Kooyman of State Forests during May and June 1997

Yours faithfully



P St Clair
for R Fussell
District Forester
CASINO DISTRICT



State Forests of
New South Wales

Casino District
PO Box 688
Casino NSW 2470
Phone (066) 62 4499
Fax (066) 62 5826

FLORA and FAUNA SURVEY of COMPARTMENTS 73-78, CAMIRA STATE FOREST.

-prepared by Robert M. Kooyman, [FA- flora and fauna] Casino District. 6/97.

Results of field surveys are provided as field data sheets and species lists, with scheduled and target species records provided as AMG co-ordinants. Maps provide details of sample areas, playback locations, species distributions, and extent and location of traverses.

Introduction:

Flora and Fauna Surveys were conducted by Kooyman [May 13,14,21,22,23,27,28, 29,30, and June 3,4,12,13,18,19,20,24,&25], following fauna surveys by Harvey and Douglas [SFNSW] during March and April.

The six compartments cover just over 2100 hectares, and with previous surveys in cmpts. 79,80,&82, in 5/96, most of this State Forest has been surveyed.

Detailed information on soil types is provided in the report on soil sampling by Veness and Associates, 3/97.

General Description of Survey Area:

Camira State Forest is a predominantly sandstone area of low to hilly topography on the lower Richmond, with an altitudinal range of 50 metres to 150 metres. Soils vary from silty clay loams to sandy clays and include alluvial sands along streams, and heavier transported clay, and silt/sand clay loams in the swamp areas.[soil colour and texture varies considerably around the survey area] Forest Types are provided in the HP in more detail, and field surveys [this sample] have confirmed them to be generally indicative. Note that [forest types] FT 82, 92, 31/92, and 31/32, are part of the non-harvestable area.

Habitat for fauna is relatively diverse, with swamp forests, extensive sedge dominated swamps and soaks, sandy riparian areas with flooded gum [Eucalyptus grandis, Ft48] and riparian rainforest species, flood flats dominated by redgum [Eucalyptus tereticornis, Ft92] with a mostly grassy understorey, and the drier upslope spotted gum [Corymbia maculata] / ironbark [E. siderophloia] / grey-gum [E. propinqua]- [Ft74], and grey-gum / ironbark / white mahogany [E. acmeniodes/umbra] associations [Ft62], with grassy or shrubby understorey. There are also small areas of blackbutt [E. pilularis, Ft36] on drier siliceous soils, and some relatively extensive areas of Banksia integrifolia dominated low forest.

Flora survey methodology: Plant species recorded from each forest type [and habitat] were listed, and frequency of occurrence and stratum [canopy, sub-canopy] indicated. Walked traverses were mapped. [See field notes attached.]

Particular attention was directed to locating and recording the distribution and numbers of ROTAP plant species [Briggs and Leigh, 1995 Revised], and Schedules 1&2 [NSW Threatened Species Act, 1995] plant [and animal] species.

Fauna survey methodology: Includes incidental records collected during flora survey and habitat assessments, as well as -:

1. walked spotlight transects, one kilometre long [minimum], 100 watt light.
10 minute listen at start and finish.

2. call playback for target species -: powerful owl, masked owl, yellow bellied glider, koala, squirrel glider, [and barking owl].
3. incidental scat collection and identification.[results of predator scat analysis were provided by Barbara Triggs]
4. track identification on sandy or soft sections of roads, tracks and creek areas.
5. extended listening time for calls, [variable sample length, and dependent on conditions.]
6. harp trapping and sonar detection for bat species [very limited winter sample only].
7. extensive sample of creeks, ponds, swamps, and associated areas for frogs, with recording of calls for later analysis and comparison to captured taxa.[autumn/winter sample only]
8. search for all other features listed in the Threatened Species Protocol Survey Design while applying the above flora and fauna surveys. [this will be supplemented by the SFO while marking out and supervising harvesting operations.

NB: A number of fauna groups were not sampled formally, therefore there are only incidental records for reptiles, small mammals, and diurnal birds. The survey was limited to autumn/winter, thus missing the optimum seasonal sample for some species groups, eg. bats, frogs, and reptiles. Records are provided in field note form and are appended. Refer to previous report cmpts. 79,80,&82[6/96] for more incidental records in similar habitat.

Rare, Threatened, or Significant Plants recorded in Camira SF cmpts. 73-78:

Hibbertia marginata [sch. 1] - a specimen with leaves in the smaller size class for the species was located in cmpt. 78, on a toe slope between two gullies. The plant is protected in the filter strip area, and will not be affected by the harvesting operation.
AMG: 490980 6761300

Grevillea quadricauda - three plants located in the harvestable area of compartment 77 have been marked with tape and paint to alert SFO during operations.
AMG: 493700 6762500

Hygrophila angustifolia - occurs in Ft.92, 31/92, in swamps, and swampy areas. All such areas are exempted from harvesting operations, and will not therefore be affected.

-there are several other significant plant species likely to occur in the swamp areas, including the sch. 1 species:

Cyperus aquatilis - [specimens collected but not yet confirmed]

Results of Fauna Surveys:

Seasonality of sample means a paucity of records for reptiles, in particular **Hoplocephalus bitorquatus**. [H. stephensii is also known from this habitat type].

1. Glossy Black Cockatoo [Calyptorhynchus lathami] - this species was located or sighted in most of the surveyed compartments [cmpts. 73 to 78]. Suitable habitat includes much of the spotted gum - ironbark association, and includes areas in the other forest types. Notable concentrations of Allocasuarina spp. occur both toward the drainage lines and lower slopes [including areas of swamp oak], and the ridges and top

slopes. Several sites with evidence of extensive Glossy-black cockatoo feeding activity were located and marked in the field. Recommend retention of *Allocasuarina* spp. [where possible] over whole of proposal area, with care to avoid disturbing current feeding locations.

2. Square tailed Kite [*Lophoictinia isura*] - this species was not recorded on this survey however it remains likely to occur and a kite resembling this species was noted flying near Whiporie. Whistling kites were recorded on the edge of Camira SF near the Mt. Marsh road. Suitable habitat includes all areas of State Forest and surrounding private property.

3. Red Goshawk [*Erythrotriorchis radiatus*] - not seen on this survey, but these forest areas could provide suitable habitat.

4. Bush Thick-knee [*Burhinus grallarius*] - not seen or heard on this survey but suitable habitat occurs over much of the area.

5. Regent Honey-eater [*Xanthomyza phrygia*] - not recorded this survey, but remains likely to occur, particularly in the Banksia rich areas. [seasonal migrant]

6. Swift Parrot [*Lathamus discolor*] - possible record this survey on flowering Eucalyptus tereticornis, [blue and red on head, red shouldered, feeding near scaley breasted and little lorikeets.]

7. Powerful owl [*Ninox strenua*] - a record for this species was obtained by Harvey and Douglas [1997] on their earlier survey. The habitat is suitable and this species is likely to utilize these areas of forest.

8. Masked owl [*Tyto novaehollandiae*] - record this survey. AMG: 493100 6761950

9. Barking owl [*Ninox connivens*] - heard regularly during survey. Excellent habitat. - see mapping for records.

10. Tiger Quoll [*Dasyurus maculatus*] - suitable habitat but no tracks, sightings or scats were recorded on this survey. The tiger quoll could be disadvantaged here as in other lowland and settled areas, by predation and competition from feral predators such as the dog and fox.

11. Yellow bellied Glider [*Petaurus australis*] - this species is present in parts of cmpts. 73, 74, 77, 78, 79 but apparently absent [at least at this time of year, on this survey] in 75, 76. This may relate to the disturbance history in many parts of the forest which has resulted in the retention of fewer habitat trees. Retention of suitable habitat trees, and all recognisable feed trees [v-notch], together with the maintenance of floristic diversity, and the forest type, riparian, [and other] exclusions, will help ameliorate further potential impacts on this species. Records accumulated for the species during this study confirm the location of several feed trees and potential nest/den trees and areas, [refer to AMGs], as well as providing an indication of current distribution of yellow-bellied gliders in this forest area. There appear to be a number of key areas [or home ranges] for the yellow-bellied glider in the survey area, [these are

apparent from the general species mapping appended to the report]. Population overall is low, with distribution apparently limited by availability of key habitat components or resources.

12. Squirrel Glider [*Petaurus norfolcensis*] - seen and heard calling on several nights of the survey. Squirrel gliders require diversity in available nectar producing species in both the overstorey and understorey layers of the forest. Their distribution in the sampled cmpts. [73 to 78] appears to relate to habitat adjacent to Myall Creek [cmpts. 77, 78, 79, 80] and Battens Bight Creek [cmpts. 73, 74] in association with the riparian and swamp forest alliances, Ft. 48, 92, 31/32, 31/92, and the upslope Ft. 62, and 74. Some areas of Ft. 92, 31/92, & 48 have an understorey of *Banksia integrifolia* and *Acacia* spp., providing excellent habitat. The mapping provided [and AMGs] indicates the records for this species and equates well with the areas of highest potential floral diversity and resources. Exclusion of the whole of these areas from logging will occur as part of the forest type exclusions outlined above. Recommend retention of all *Banksia integrifolia* and as much *Acacia* spp. as possible in other areas.

13. Koala [*Phascolarctos cinereus*] - pellets, calls, and other indications of activity were recorded in all cmpts. sampled, although apparently in low numbers [see mapping provided, koala transect survey results, and AMG records for distribution]. Primary browse species include *Eucalyptus tereticornis*, *E. grandis*, *E. propinqua*, with some activity on other species such as *E. siderophloia*, *E. eugenioides/umbra*, *E. intermedia*, and *E. pilularis* in cmpt. 73 and 78. Core habitat seems to be the redgum associations and adjacent forest types with higher nutrient and moisture levels. *E. propinqua* is the primary browse species in the upslope areas dominated by the spotted gum / ironbark associations. Predator scat [dog] analysis by Barbara Triggs identified koala remains on two occasions out of a limited scat sample [<10], indicating, at least to some extent, the predator 'pressure' in the area. The change in predator species from dingo and quoll, to dingo, [dog], fox, and cat [along with cattle grazing, and the fire history], may help to explain the apparently low numbers of koalas, [and CWR terrestrial mammals], in the survey area.

14. Rufous Bettong [*Aepyprymnus rufescens*] - not recorded on this survey. Generally good to excellent habitat except for heavy grazing by cattle which has reduced the grass sward. One animal seen on a walking spotlight transect most closely resembled this species, however the sighting was too brief to be regarded as a confirmed record. Several hours of spotlighting was carried out over two nights targetting this species, and the long nosed Potoroo [see below].

15. Brush tailed Phascogale [*Phascogale tapoatofa*] - not recorded this survey but the area has excellent habitat and the species remains likely to occur.

16. Long -nosed Potoroo [*Potorous tridactylus*] - were recorded in a number of areas, generally in association with the sandier soils, both upslope and in, or adjacent to, riparian or swampy areas. Records were from footprints and diggings, with follow-up spotlighting [visual] surveys. [only confirmed sightings are provided as records]

17. Common Planigale [*Planigale maculata*] - not recorded this survey, no small mammal or pitfall trapping was conducted.

18. Black-necked Stork [*Ephippiorhynchus asiaticus*] - was observed on several occasions around the swamp areas of Whiporie [Myall Creek] and Battens Bight Creek, earlier in the survey periods [1996, and 1997]. This species is likely to occur in the swamp areas, and lagoons throughout the survey area, [in particular cmpt. 73, and areas of suitable habitat in the other compartments].

19. Microchiropteran Bats - only a limited autumn/winter sample was conducted with records for four species -:

Miniopterus australis - harp trap and sonar [Anabat 5] records.

Rhinolophus megaphyllus - sonar record.

Saccolaimus flaviventris - sonar record.

Nyctophilus spp. [likely - *gouldi*] - spotlight/ visual record.

20. Frog species - the following species were recorded during surveys by Kooyman, and Harvey and Douglas.

Limnodynastes - *tasmaniensis*, *terraereginae*, *peronii*, *dumerilii*.

Uperolia - *fusca*, *laevigata*.

Crinia - *signifera*, *parinsignifera*.

Pseudophryne - *bibronii*, *coriacea*.

Mixophyes - *fasciolatus*.

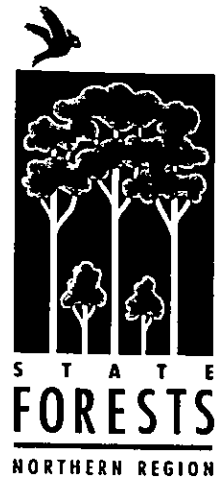
Lechriodus - *fletcheri* [call recording only]

Litoria - *nasuta*, *fallax*, *leseuri*, *phyllochroa*, *caerulea*.

Litoria brevipalmata - remains likely to occur in the survey area. Recent records for this species have been collected nearby, and suitable habitat occurs in many parts of these compartments. Surveys from October to February, after storms or flood inundation, would overcome the seasonal deficiencies of this survey.

FACSIMILE TRANSMISSION

To	NPWS NORTHERN ZONE TSU		
Attention	Gary Davey/ Kate Dallimore	Date	07/07/97
Your Fax	51 6187	Our Fax	066-625826
From	Peter St.Clair Forester - for District Forester - CASINO	Phone	(066) 62 4499
No of Pages	54 (including this cover page)		



Message

RE: CAMIRA SF Cpts 73-78

Please find enclosed report on Flora and Fauna in the above compartments prepared by Robert Kooyman.

Field notes will follow by mail.

Licensing of this area is considered urgent so that Government can maintain commitments to industry.

Thank you.

State Forests of
New South Wales

Casino District
PO Box 688
CASINO NSW 2470
Phone (066) 624499

Rebu

DONELLA, 23 Pages
Field Notes coming
Regards Retn.

FAXED

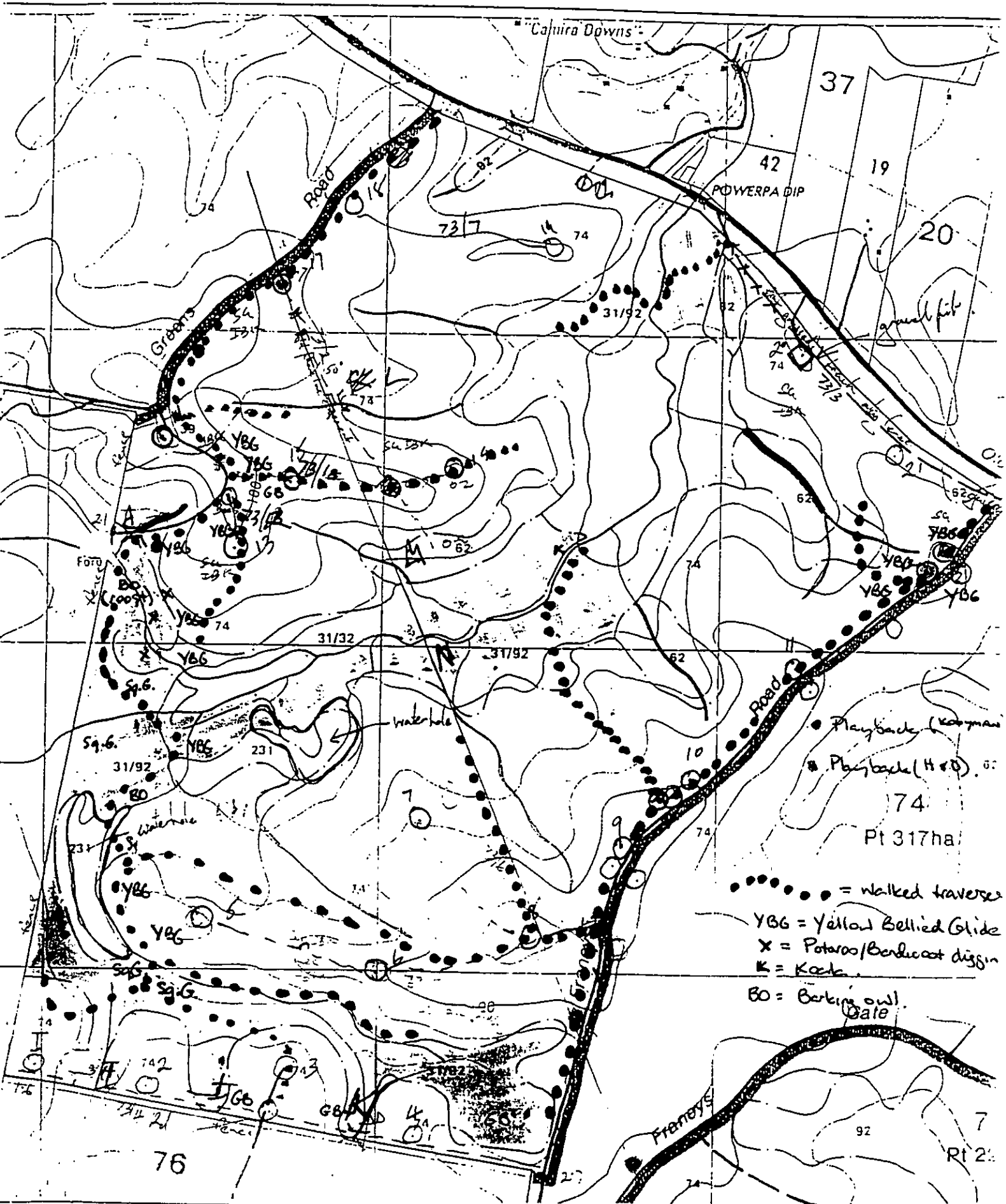
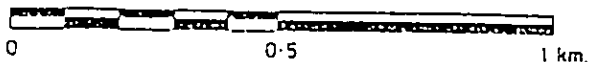
Compartment 73

Scale — 1:15 000

CB / 18

Contour interval 10m

G N



..... = walked traverses
 YBG = Yellow Bellied Glider
 X = Potaroo/Bandicoot digging
 K = Koala
 BO = Barking owl

Compartment boundary

Special emphasis

Compartment 74

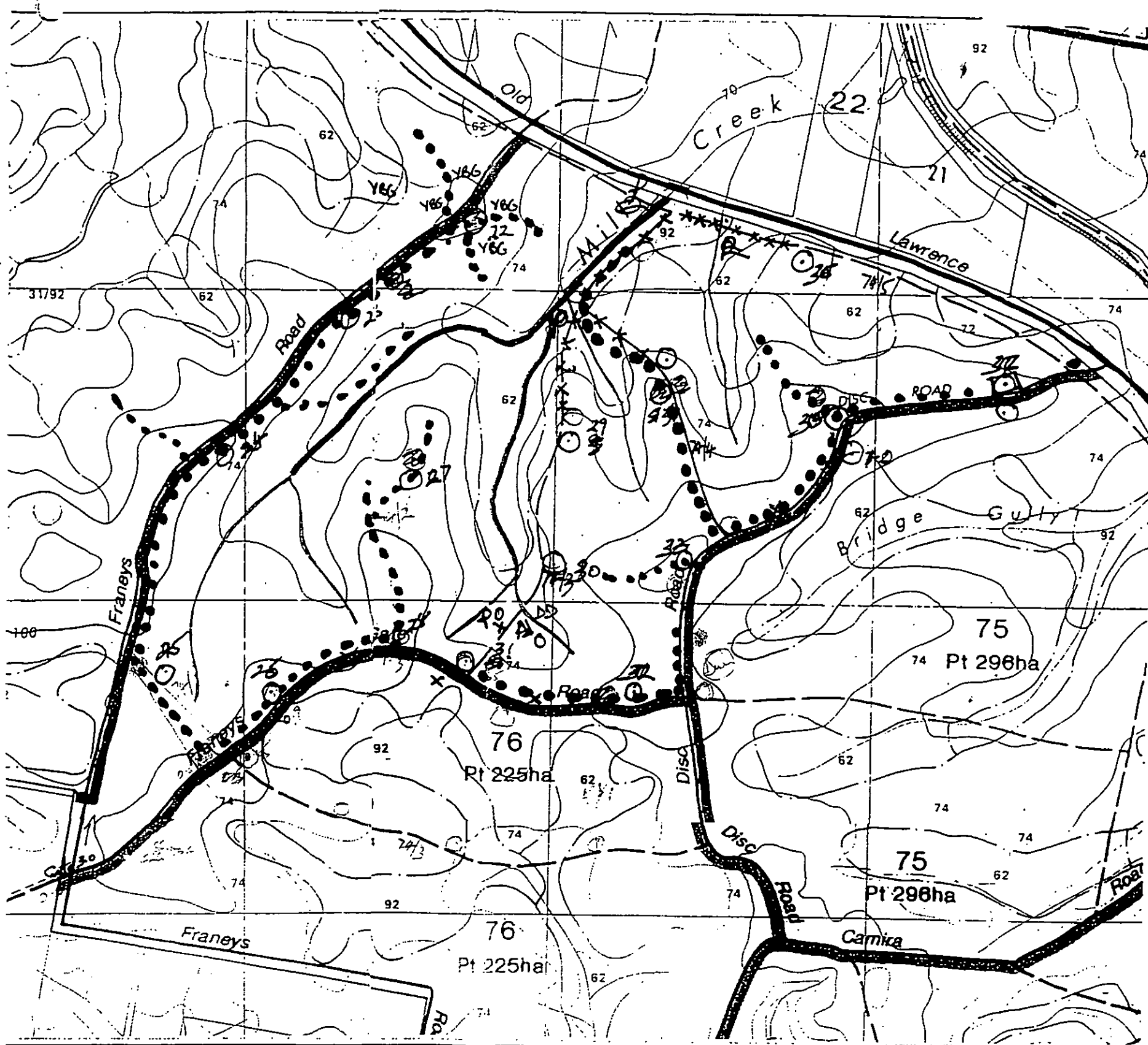
74

Scale — 1:15 000

CS / 18

Contour interval 10m

G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red

Special emphasis

P.O. = Powerful owl

..... = walked traverses

YBG = Yellow bellied Glider

X = Potoroo (prints, diggings, sightings).

• Playback (Kooymai)

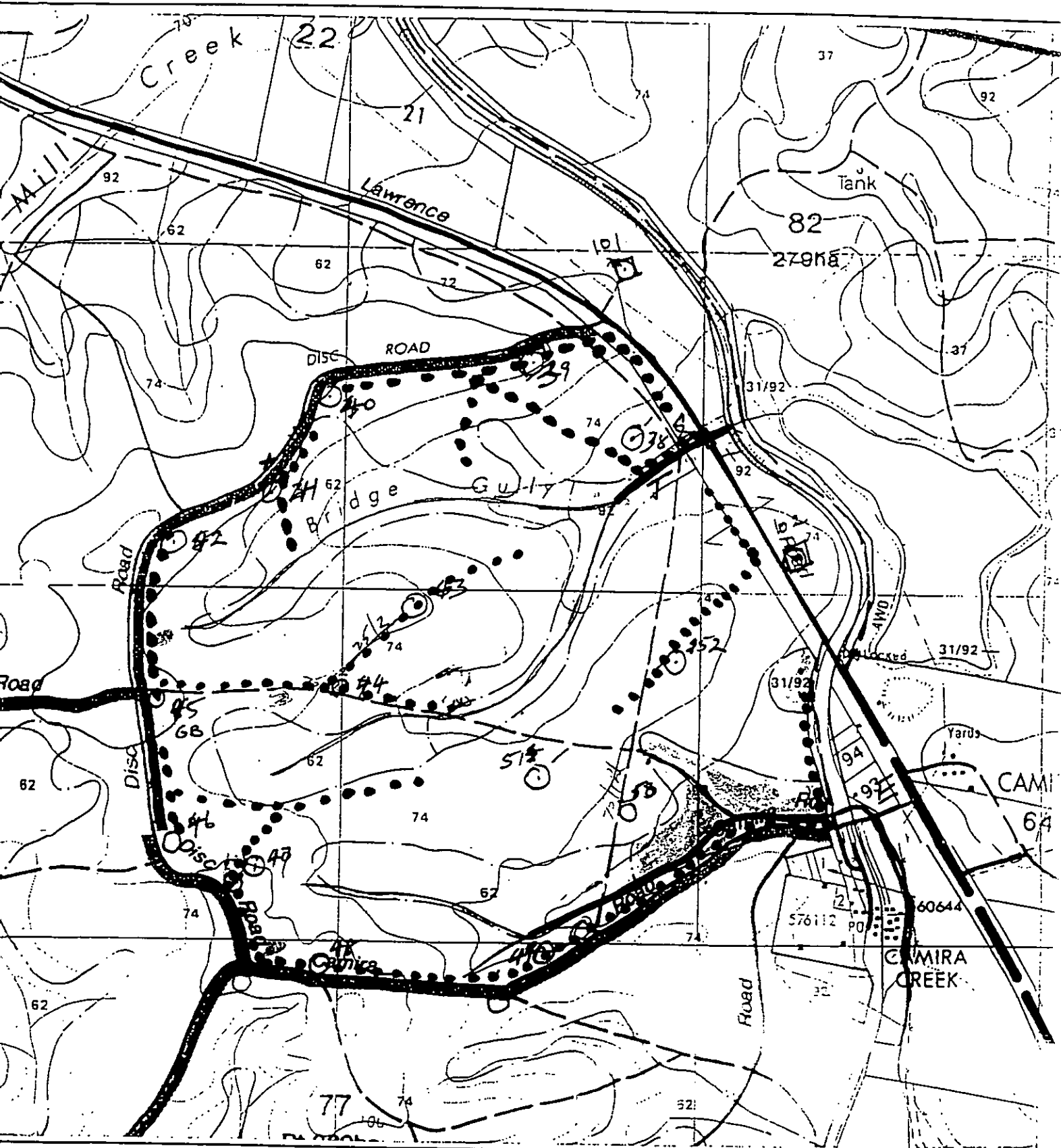
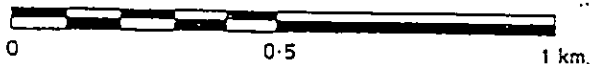
• Playback (H&D).

Compartment 75

Scale — 1:15 000

CS / 18

Contour interval 10m



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red

Special emphasis

●●●●● = Walked traverses

x = Potoroo

GB = Glossy Black Cockatoo

● PLAYBACK (Kooymans).

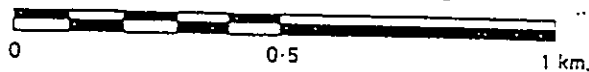
● PLAYBACK (H&B)

Compartment 76

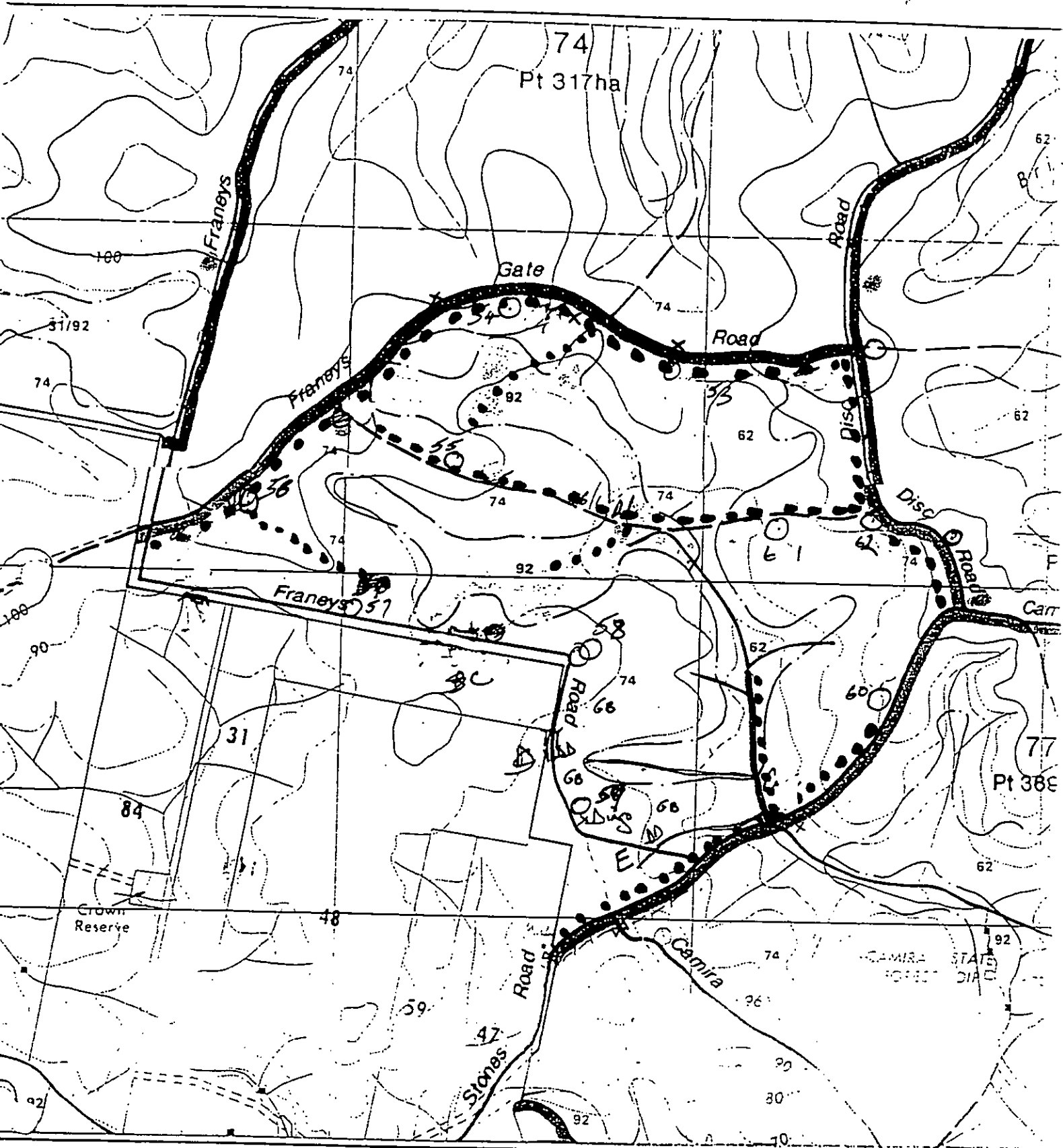
Scale — 1:15 000

CB / 18

Contour interval 10m



G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather drains shown in rec

Special emphasis

••••• = walked traverses

X = Potoroo sightings

GB = Glossy Black Cockatoo (feed areas).
= Playback site.

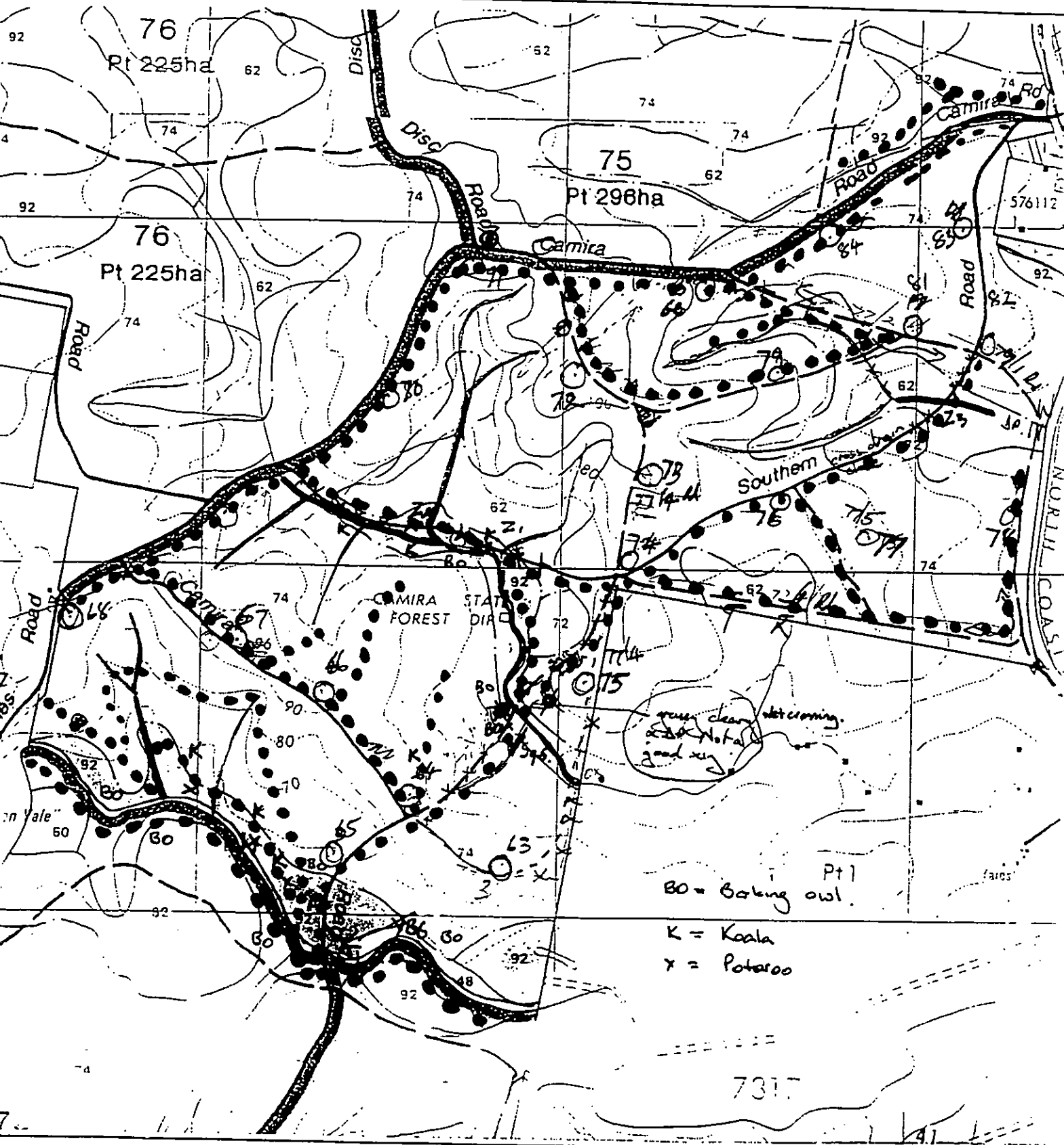
Compartment 77

Scale — 1:15 000

CB/18

Contour interval 10m

G N



Compartment boundary

Filter strips

Protection strips

Road, minor road, dump site

Wet weather dumps shown in red
PLAYBACK STRIPS

Special emphasis

●●●●● = walked traverse

K = KOALA

x = Potoroo diggings

GB = Glossy Black Cockatoos

YBG = Yellow bellied Gliders

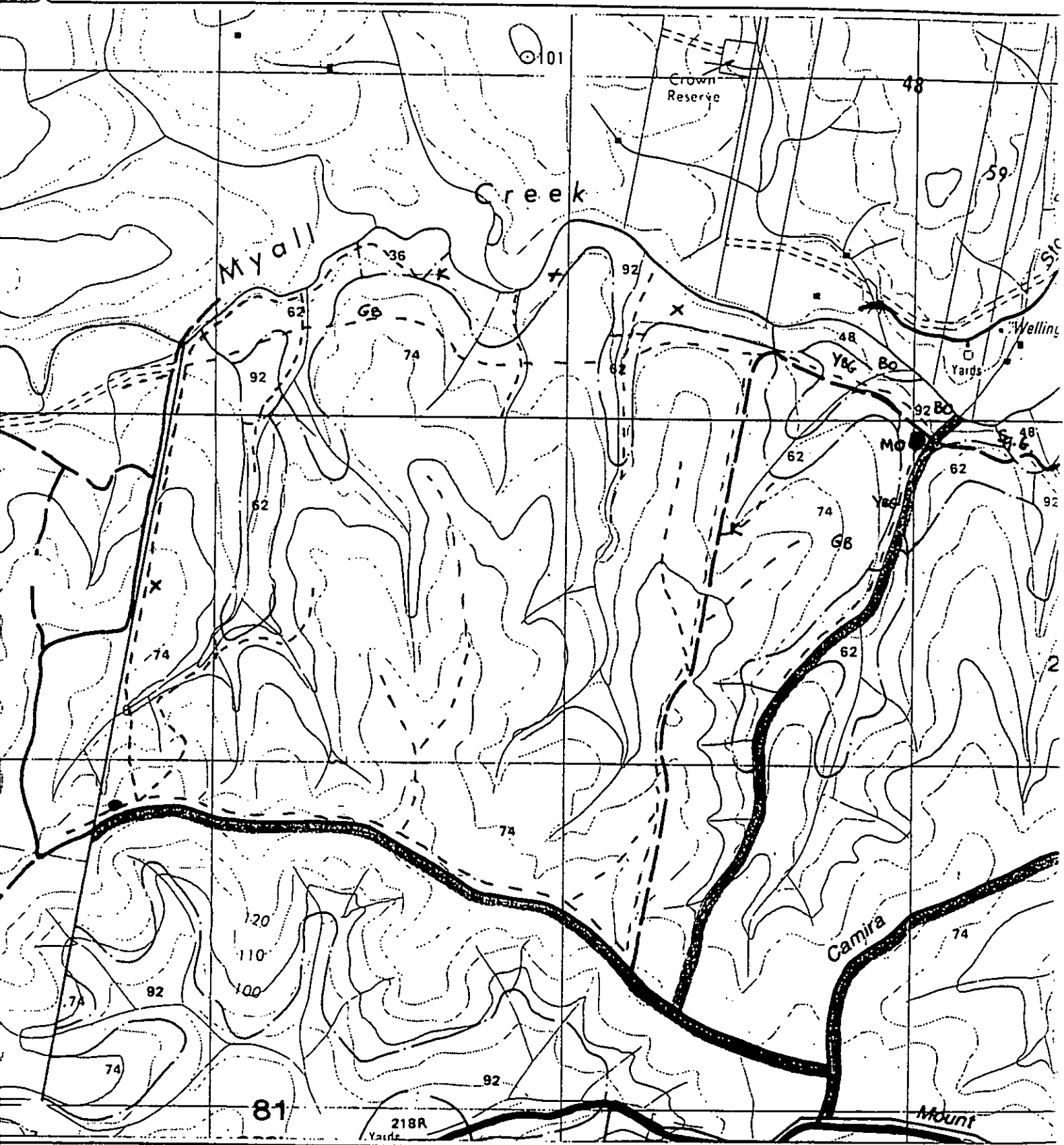
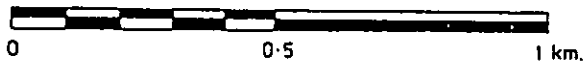
BO = Barking owl.

Compartment 78

Scale — 1:15 000

CB/18

Contour interval 10m



Compartment boundary
 Filter strips
 Protection strips
 Road, minor road, dump site
 Wet weather dumps shown in red

Special emphasis

MO - Masked Owl.

--- = walked traverse

GB - Glossy Blade

x Potoroo/bandicoot diggings.

YBG - Yellow bellied Glider. K - Koala

COMPOSITE SPECIES LIST.

- C. Eucalyptus tereticornis* (o-vc)
C. E. grandis
C. E. (Corymbia) intermedia (o)
C. E. siderophloia (o-vc)
C. E. (Corymbia) maculata (o-vc) ... (heavily)
C. E. Pruniqua (o-a)
C. E. umbra (vo)
C. E. (chede) fidalia (vo)
C. E. Esmerina glauca (o-c)
sc/c. Allocasuarina torulosa (o-vc)
C/c. Leptospermum succulentum (R-o)
C/c. Angophora subvelutina (R-b)
sc/c. Leptospermum confertum (vo)
sc/c. Acacia falcata (o-c)
C/c. Syncarpia glomulifera (vo-r)
sc. Acacia fimbriata (o-vc)
C/c. Melaleuca quinquenervia (R-o)
sc. Acacia concinna (o)
sc/c. Petalostigma pubescens (R-o)
Persea stralderiana (o-c)
sc. Acacia irrorata subsp. irrorata (o-c)
sc/c. Banksia integrifolia (R-o)
sc. Melaleuca alternifolia (o-vc)
Bursaria spinosa (o-c) crude.
Phedimus elatus subsp. *beckleri* (o) cr.
Goodenia rotundifolia (o)
Alphitonia excelsa (o-c)
Rapanea variabilis (o) cr.
Notelea longifolia (o-c)
Callistemon viridifolius (o-c) cr.
Jacksonia scoparia (R-o) cr.
Oxylobium ilicifolium (vo-c)
Baekea densifolia (o-a)
B. linearis (o-a)
Glochidion ferdinandi (vo-c) cr.
Breynia oblongifolia (o)
Acmena smithii (o)
A. smithii var. *minor* (o-vc)
Cleodendron tomentosum (vo)
Dubautia myrsinoides (R-vo)
- Sarcopetalum harveyanum* (vo)
Grevillea robusta (R)
Daviesia umbellata (R)
Dodonea triquetra (o-c)
Hibbertia diffusa (vo-o)
Daviesia genistifolia (vo-o)
Opercularia diphylla (vo)
Ozothamnus diosmifolius (R-vo)
Pittosporum revolutum (vo)
Phyllanthus sp. virgatus (vo) (small)
Lomatia sibirifolia (R-o)
Malichus urceolatus (R)
Monotoca scoparia (o)
Hibbertia obtusifolia (o)
Putterlickia cinnamomifolia (o-e)
Putterlickia villosa (vo-vc)
Gonocarpus micranthus subsp. *micranthus* (o) swamp/
Ranunculus inundatus (o) swamp/
Persicaria strigosa (o) swamp/
Excoecaria cupressiformis (R)
Pimelea latifolia var. *div.* (vo)
Tataneumata padaqui (b-r)
Dodonea triquetra (R-o)
Wikstroemia indica (vo)
- Specimen: CAM. 972-5-01 —
 Specimen: CAM. 972-5-02 —
Plectranthus parviflorus (o-c)
Pimelea linearifolia (o-a)
Pimelea sp. glauca (o-o)
Croton voreauwii (o) cr.
Pomax umbellata (o-c)
Pottosania sericea (R)
Catalpa alba (R) chede/
Lobelia trigonocaulis (o-R)
Richardsonia sp. brailiensis (o)
Viola sp. hederacea (o-)
Hibbertia sp. marginata chede.../
Centella asiatica (vo-e)
Physcia sambucifolia (vo)
Leptospermum polygalifolium (R-o)
Phyllanthus tenellus (vo)
Goodenia hederacea var. *hederacea* (vo-c)
Phyllanthus gunnii (o)
Spermocoe brachystema (recollected)
Trachymena incisa (vo)
Billardiera scandens var. *sericata* (o-vo)
Lomandra filiformis (R)
L. multiflora (vo)
Velleia paradoxa (vo-o)

Robert Koonman
5/97.

(Pg 1)

- Phyllanthus triellus* (o) ferre
Billardiera scandens (o-c)
Smilax australis (o)
Eutrepia latifolia (o-vo)
Parrisia straminea (o-c)
Kennedia rubicunda (o)
Glycine clandestina (o)
Dioscorea transversa (R-o)
Geitophesium cynosuroides (R-o)
Morinda javanica (c) cr.
Pandanus paniculatus (o) cr.
Stephania japonica var. *diversa* (c)
Hardebergia violacea (c)
Diplocladus palmatus (vo-a)
Cyperus tetraphyllus (o-)
Cyperus sp. biflorus (R) chede.
Lepirina articulata (R-)
Scirpus polytachyus (vo-o)
Juncus sp.
Juncus sp. carinatus (o-c)
Persicaria praetensis (R-o)
Cyperus sp. biflorus (o)
Lomandra longifolia (o-c)
** Cyperus sp. aff. agnatus* ()
(recollected... not confirmed/likely)
Ludwigia peploides subsp. *montevideensis* (vo)
Laxmannia gracilis (vo)
Xanthorrhoea sp. latifolia (vo-c)
Entolasia aff. whitiana *strigata* (o-c)
Imperata cylindrica (vc-o)
Themelia australis (o-c)
Opismia sp. acuminata (o-c) cr.
Lepidosperma laterale (vo-o)
Gahnia aspera (vo)
Cymbidium medidum (o)
Catalpa cataracta (R)
Cyperus eragrostis (o)
Adiantum hispidulum (R-o)
Phedimus esculentum (vo-c)
Cheilanthes sieberiana (o-c)
Christella dentata (R-c)
Cymbopogon sp. refractus (o)
Cissus hypoglauca (o)
Amyema caryocarpus (o)
Eragrostis sp. (o)
Lomandra multiflora (R-o)
Entolasia strigata (o-R)
Botriocla (decipiens) (vo)
Eleocharis sp. (o-c)
Pterostylis nutans (vo-a) var. *nutans*

Camia S.F. Cnpts. 73-78.

SPECIES LIST.

Robert Kooyan (P32)
5-6/97.

Grevillea (spaff.) ^{quadricauda} ~~beccabunga~~ (R) [3 plants].

Epilobium bilbidiericum sub.sp. cinereum (vo)

Philadelphum lanuginosum (o-vo).

Cissus opaca (vo)

Rentia sp.

Clematis arabica (o-vo).

(?) terrestrial orchid: specimen of seed pod only----

Desmodium rhytidifolium (o)

Galactia sp. (vo) ches!

Dennardium brachypodium (o).

Glycine clandestina (o-cl).

Pattersonia sericea (R)

Lepironia articulata (R)

Hydrophila angustifolia (R-vo).

Zieria cytisoides (vo-R)

Conospermum ericinum ^{form?} (vo-R).

Hakea sp. salicifolia? (floridata) (vo-R)

Maytenus sp. bilaculata (vo)

Schizaea sp. bifida (R).

Callistemon schignus (vo).

Daviesia ulicifolia (o-vo).

Lissanthus sp. B. (R)

Persicaria dichotoma (R)

Hibbertia aspera (R-vo) ches! (no flower).

Babingtonia (Baehia) virgata (vo)

Putterlickia myrtoides (o-vo)

Pimelea sp. glauca (o).

CAMERA S.F. cmpts. 73-78. REDGUM (sandy riparian)
swamp

Robert Kooyun.
5/97.

- C. Eucalyptus tereticornis (o-c)
- c/c Lophostemon suaveolens (o-vc)
- c/sc. Melaleuca quinquinervia (vo-c) ±
- c/sc. M. alterifolia (o-c).
- C. Eucalyptus grandis (o) ±

- c/sc. Acacia falcata (b-c).
- c/sc. Carneria glauca (o-c)

(o-c).

- sc. Allocasuarina teretifera (vo).
- sc. Acacia irrorata var. irrorata (o).
- sc. Alphitonia excelsa (o-vc).
- Bursaria spinosa (o-c)
- Zieria sp. ^{reduced - fuzzy leaves...} cythoides (small leaves) check specimen...
- Trochocarpa laurina (R-o).
- sc. Acmerra smithii (o-c).
- sc/c Banksia integrifolia (o-vc)
- sc. Acacia fimbriata (o)
- sc. Callistemon viminalis (R-o)
- Pimenta latifolia var. altior (o)
- sc. Persoonia stricklandensis (o).
- Phelodendron doctus atq. beckeri (vo-o).
- sc. Glochidion ferdinandi (o).
- Braynia oblongifolia (o-)

- Stephania japonica var. diandra (o-c).
- Parsavia straminea (c).
- Geitogelesium cynosuroides (R-o)
- Markea jarmoides (c)
- Parakea parakea (ot-c)
- Diplazium palmatum (vo-R)
- Dioscorea transversa (R-vo).
- Cissus hypoglauca (o).

- Caladrea catarata (R).
- Ordibacera: collected specimen...

- Pholidium exultans (o-c).
- Cyperus eragrostis (o-c).
- Cyperus tetraphyllus (vo)
- C. sp. bifax (R)
- C. sp. (R-o) same sp.
- Juncus carinatus (o-o)
- Juncus sp. (vo).
- Lomandra longifolia (o-c).
- Entolasia sp. ^{whitiana} (o-c).
- E. stricta (o-c).
- Oplismenus sp. ^{acutus} (o-c).
- Scirpus polytachyus (R).
- Persicaria praetermissa (R-o)
- Patteraria saricifolia (R).
- Pratia purpurea (o).
- Viola v.
- Ludwigia peploides ^{subsp. montevideensis} (vo)
- Laxmannia gracilis (vo).
- Lepidosperma laterale (o).
- Calamagrostis aspera (vo-o).
- Adiantum hispidulum (o).
- Chorizanthe sibirica (vo-o).
- Christella dentata (R-c).
- Lepidostichum articulatum (R-)
- Hygrophylla angustifolia (R-vo). specimen:

SAND AREAS — MOIST — WET
MOIST — Dry

DEIR ± *Euc. tereticornis* (r-o).

c. *Eucalyptus polularis* (o)

c. E. *granifolia* (o-c)
intermedia

c/x. *Angaphara* (vo-o).

s/c *Acacia falcata* (c)

s/c *Banksia integrifolia* (o-vc)

s/c *Alphitonia excelsa* (o-c)

s/c *Allocasuarina teretifolia* (o-c)

s/c *Acacia fimbriata* (o-c).

s/c *Petalostigma* (o-c)

s/c *Leptocarpum polygalifolium* (o) — check specimen. *trivernum*.

Bryonia dolanifolia (o-vo).

Hibbertia diffusa (o)

Dodonaea triquetra (o-c).

Hibbertia sp.

Phorix eximientum (o/c)

Imperata cylindrica (vc).

Themeda arctostachys (o)

Cymbopogon refractus (o).

Eurostaphis latifolia (o).

- *Entolasia arctica* (o-vo).

Chailantia sibirica (o).

Caladenia sp. *catantia* (o-c) — *Stomoxys oecumia*.

MOIST — WET

c. *Eucalyptus tereticornis* (vo-c).

s/c *Melaleuca alternifolia* (o-vc)

s/c M. *quinquineria* (o-vo).

c/x *Leptocarpum succulentum* (vo-c) * localised.

s/c *Acacia falcata* (o)

s/c *Banksia integrifolia* (o-vc)

s/c *Casuarina glauca* (o-vc)

s/c *Alphitonia excelsa* (o).

Zieria sp. (vo-o).

Duboisia myoparoides (o).

s/c *Acronia similis* (o-c) *crata*.

Stephania japonica var *discolor* (o-c).

Cissia hypoglauca (o).

add: sedges, & aquatic & semi-aquatic plants etc....

NS. * — terrestrial orchids need seasonal survey:

- this area could be very interesting....

CAMILA S.F. Field notes and composite species list (fauna).
mpts. 79/-78

recorded by: R.M. Kooymann 5/17.

Brush-tail possum (common).

ringtail possum.

Green tree snake

goanna (common)

Litoria nasuta,

L. lewini,

Crinia parasignifera,

Lygodactylus tasmannicus,
..... ant'd below

barking owl

frogmouth (tunn)

glossy black cockatoo

galah

eastern roseella

scarlet breasted lorikeets,

rainbow lorikeet,

painterly button quail

laughing kookaburra,

currawong.

noisy friar bird (red & blue anthead)
red on throat, brown tree creeper.

blue faced honeyeater

tree creeper (white throated)

tree creeper (brown)

willie wagtail

gray fantail,

lewis honey-eater,

golden whistler,

yellow robin,

variegated wren,

firetail finches, (red breasted)

yellow tailed black cockatoo

noisy miner,

varied sitella,

magpie,

mudlark,

gray goshawk,

wedge tailed eagle,

brown goshawk,

jacking winter,

wonga pigeon.

* black necked stork (Jabiru)

wood duck

* Koala

* YBG

* Squirrel glider,

greater glider

sugar glider

feather tail glider (not recorded but likely)

eastern gray kangaroo,

swamp wallaby,

red necked wallaby,

whip tail wallaby (pretty face).

rufous bellbird (not positively recorded).

phascogale (not positively recorded).

echidna,

* Tataroo (long nosed) ✓.

dog,

Bandicoot (long nosed) ✓

rabbit,

- *Miniopterus australis* - H.P.

cat,

- *Saccolaimus flaviventris* - Sauer.

cattle,

- *Nictophyes (gouldii)* - Spot.

- *Rhinidophus megaphyllus*... (Sauer).

... also likely ... *Rattus* spp. (fuscipes, turneyi etc)

Melomys spp.

Antechinus spp.

Pseudomys spp. (*gracilicaudatus*)

Eastern spinbill.

Mistletoe bird.

White winged chough (28-finger group).

fuscon honeyeater

black faced cuckoo shrike,

owlet nightjar,

white throated nightjar,

rainbow bee-eater,

peaceful dove,

bar shouldered dove,

garganey,

thornbill (yellow) or yellow rumped.

no: good habitat for brush black-knee... *Pseudophryne* spp.

* and Masked owl... ✓

bitoranii, *caricaceae*.

no: - water birds not surveyed *Litoria* spp. *fallax*,

add: 5/17 Lake lorikeets.

* Powerful owl - no. record. '97

* Masked owl - no. record. '97.

whistling kite (outside S.F.) (known near) * - *Litoria brevipalmata* (remains

brush goshawk

square-tailed kite (outside S.F.)

- *Anas*. Kestrel

lewini, *phyllochroa*, *canadensis*,

nasuta.

Lechriodactylus fletcheri (calli).

Mixophyes fasciolatus.

very likely to occur - seasonality of sampling is limitation with this species. Oct - Jan. (storm).

MAPS: 1:25,000 CMA TOPO.

CLEARFIELD: 9439-1-S

WHIPPOUR: 9439-2-N

Casino District
Reporting of Schedule 12 Fauna Sightings

CAMIRA S.F. Cnpts. 73-78.

ROBERT KOORMAN.

Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Description of Fauna Sighted - eg adult, juvenile, breeding female, call only etc	AMG Reference	General Comments (eg at log dump, road side, Forest Type etc)
13/5/97	CAMIRA	78/79	1	MASKED OWL	CALL (Play back)	4 931 00	6761950
21/5/97	CAMIRA	73	1	YBG	CALLS (sighted)	4 915 50	6766500
		73	1	YBG	"	4 916 25	6766550
		73	1	YBG	"	4 915 75	6766300
28/5/97	CAMIRA	73	1	YBG	"	4 913 00	6766250
		73	1	YBG	"	4 912 00	6765950
28/5/97	CAMIRA	73	1	Squirrel Glider	calls	4 912 00	6765700
28/5/97	CAMIRA	74/75	1	Potoroo	seen (spotlight)	4 947 00	6765300
28/5	CAMIRA	73	1	YBG	calls -	4 914 75	6765850
29/5		73	1	YBG	(several seen) -	4 917 00	6765820
		73	1	YBG	calls	4 912 50	6765600
		73	1	YBG	calls	4 913 00	6765050
28/5	CAMIRA	77	1	Potoroo	seen on road	4 943 80	6761920
29/5	CAMIRA	73	1	Squirrel Glider	seen (spot)	4 912 00	6765350
29/5	CAMIRA	73	1	Squirrel Glider	calls	4 911 50	6765050
27/5	CAMIRA	78	1	Squirrel Glider	seen / near creek calls	4 930 50	6762020
3/6	CAMIRA	73/74	1	YBG	calling (several sighted) ...	4 934 00	6766300
3/6			1	"	"	4 936 50	6766275
3/6			1	"	"	4 937 00	6766350
3/6		74	1	YBG	calls	4 937 50	6766200
21/6		78	1	YBG	calls	4 928 75	6762150
21/6		77	1	YBG	calls (Mall Gb)	4 942 75	6761850
		77	1	YBG	calls "	4 945 00	6761925
18/6		79/77	1	YBG (3)	calls / spotlight	4 941 80	6761900
		79	11	YBG	V-notch (x 3)	4 943 20	6761580
		79	11 / 1	YBG	DEN site (area)	4 942 00	6762035
28/5	CAMIRA	74/76	1	Potoroo	spotlight	4 939 10	6764700

*) Type of Inspection

1. Night Time Surveys
2. Follow-up Clearance Inspection
3. Rejects Inspection
4. Regeneration Inspection
5. Road Line, Dump Sites Inspection
6. Timber Assessment

7. Marking Boundaries, Filter Strips or Conservation Areas
8. Reports from Log Faller
9. Head Disposal Burning
10. Harvesting Planning
11. Other

MAPS 1: 25,000 CMA TOPO

CLEARFELL - 9439-1-S

WHIPPOEIA - 9439-2-N Casino District
Reporting of Schedule 12 Fauna Sightings

MAY/JUNE 1997.

CAMIRA S.F.

Roger Kooyman

Date	State Forest	Cpt No.	Type of Inspection (*)	Species of Fauna Sighted	Description of Fauna Sighted - eg adult, juvenile, breeding female, call only etc	AMG Reference	General Comments (eg at log dump, road side, Forest Type etc)
18/6/97	CAMIRA	77	11	KOALA	(scats, scratches,	4 94125	67622 25
		77	1	KOALA	(calls at night).	4 94250	67621 00
		77	11	KOALA	scats, scratches	4 93950	67624 00
		77	11	KOALA	scats	4 94650	67623 75
		77	11	KOALA	scats	4 94500	67631 00
		77	1	KOALA	calls	4 94620	67631 00
		77	11	KOALA	scats	4 94750	67631 10
18/6		78	11	KOALA	scats	4 91750	67623 00
		78	11	KOALA	scats	4 92500	67617 50
5/6 - 6/6		78	11	Glossy Black Ant	seen/heard	4 92750	67616 00
		78	11	"		4 91500	67623 20
		76	11	"	FEED SITES	4 93800	67632 25
		76	11	"	FEED SITES	4 93875	67633 25
		76	11	"	FEED SITES.	4 93750	67636 00
		77	11	G.B.C.	seen/heard	4 95320	67638 00
		75	11	G.B.C.	seen/heard	4 93900	67646 50
		73	11	"	" "	4 91750	67654 00
		73	11	"	" "	4 91825	67646 00
		73	11	"	" "	4 91500	67647 00
		73	11	"	" "	4 91650	67665 75
* DISCINGS ONLY -							
5/6 to 6/6		78	11	POTOROO	Possible discings	4 90810	67614 50
		78		"	" "	4 92000	67624 00
		78		"	" "	4 92325	67623 00
		77		"	" "	4 95800	67637 20
		74/76		"	" "	4 93550	67648 50

(*) Type of Inspection

- | | |
|-------------------------------------|--|
| 1. Night Time Surveys | 7. Marking Boundaries, Filter Strips or Conservation Areas |
| 2. Follow-up Clearance Inspection | 8. Reports from Log Faller |
| 3. Rejects Inspection | 9. Head Disposal Burning |
| 4. Regeneration Inspection | 10. Harvesting Planning |
| 5. Road Line, Dump Sites Inspection | 11. Other |
| 6. Timber Assessment | |

TUES. MAY 13th, 1997. — NW corner 79, NE 78.TRACK (JUST ON COR. SANDS) — along Myall Crk. — weather: fine, cool, no wind — light breeze $\frac{1}{2}$ m.p.h.LISTEN 15 mins —: *Litoria laxei*,
6:15pm *Litoria* sp.
*Crinia signifera*Robert Koayman
(FA, SPNSW),- large macropod (2.8m)
Ringtail possum (catt).

6:30pm — walking spotlight transect — east along Myall Crk Trk. (cmpt. 79).

50m — *Mixophyes fasciatus* — an ark. (Adult).

350m — Dingo (on track) — yellow/male.

500m — large macropods ... (heard).

- bandicoot) *dissinge* along track — sandy areas ...
potoroo

- long nosed? bandicoot — (sneeze warning) ...

- captured *Crinia parasignifera* ... *Upsetalia fusca* ...(key out flags — *Limnodynastes dumerilii* (no rec data) rest of description fits accurately,
return to capture sites... gray/brown, obscure darker streaks ...
creamy to orange glandular strips ...
orange (red light) — plank4pm — finish — Barking owl — an ark. on drive back to bag off flags ...
(large — gray/brown — heard owl).
- START western walking spotlight ...* START PLAYBACK CALLS FOR — MASKED OWL — RESPONSE — long, clear call, low
(so low & loud it startled me!) & loud / directly overhead.
- while tape playing (brief pause)
NO record of — AM6 — 493100 6761950
playback site. MAP: 9439-2-N
1:25,000 Top. YBG — no response

10:15pm (end playback).

Squirrel glider — no response (not heard on walkway)
Powerful owl — no response.- Walk western part of Trk. (250m). (Potoroo *dissinge* — ... heard small
- no result... collected another *Limnodynastes dumerilii* macropod. ?
- 11pm. END. set up camp — 11:30pm

FAX: 066 -625826

TO: SPNSW CASINO.

ATTN: PETAR STILJANIĆ

FROM: Rob Koayman —

NB: FULL MOON SAMPLE

CAMILLA S.F.

21/5/97

Robert Koenigman.

INCIDENTAL FAUNA RECORDS AND SURVEY RESULTS

1. cmpt. 73 - collected - Caninus x familiaris (Dingo)?
2. footprints in muddy area near bee-site (cmpt. 73) - Pademelon... Thylogale sp. or Parma wallaby?
3. footprints on soft section of Green's Rd. — carefully measured and compared to Rufous Bettong — 100% fit..... size, pad alignment, toe distances etc.... (shapes)

Add: Limnodynastes terra-reginae (to frog list). Swamp wallaby
Litoria pall. fallax (very small / pale brown). Eastern grey kangaroo

[Barking owls - calling 21/5/97 - 2 sets of calls at 4:50pm (sun just setting).
Cmpt. 73 - near Ford / Bidders Bight. Called during Flara survey)
5:30pm - moon rise / sunset - moon (full). BO's calling at dusk...
- FULL MOON SO WILL TARGET - M.O. / YBG playback - CWR terrestrial - spotlight.
WEATHER: FINE, little cloud, warm-cool. no wind early...

6:00 pm - LISTEN - 30 mins. — Barking owl
Cmpt. 73. Litoria fallax Limnodynastes sp.
Bidders Bight Ford / Green's Rd. Litoria lesuei Crinia signifera
Litoria (sp.) ... crickets

6:40pm - Playback calls - Masked owl - no response
YBG - no response.

7:00 - 7:15 - listen - distant YBG... (calls)
Fox calling..

START: DRIVING / SPOTLIGHT SAMPLE.

FORD at Bidders Bight - Green's Rd 0m - 300m (beesite top of hill)

7:30pm Stop - listen - YBG - glide call, seen in spotlight.
(large spotted gum). marked
H - YBG.

NB: Spotted gum in glowers (bud).

300m - 600m - stop - listen - nothing heard

600m - 900m - stop - listen - YBG - distant (150°) - Playback calls -
(along power line & road clearing) Masked owl - no response
YBG - no response.

1.9kms - END. (Old Tattersfield Rd).

— ROAD SAMPLE. - CMPT. 73 to Disc Rd - to CMPT. 79/78.

END. 9:45pm. set up camp... 10:15pm. — YBG calling (< 30m.) Red gum / Flooded gum
Cmpt. 79 (near creek). Sp. Gum...

• YBG' calling intermittently throughout the night.

• Barking owls calling around midnight.

* NB: EXCELLENT HABITAT FOR LITORIA BARVIPALMATA — SEASONAL — late Spring, early Summer!

Limnodynastes spp. - terra-reginae, dumerillii, tannerianus, peroni,
Urolophus spp. - fusca, laevigata. — Lechriodus fielderi - (calls only).

Litoria spp. - fallax, lesuei, phyllachra, canaliculata, nana, — Mixophyes fasciolatus.
Crinia signifera -
Crinia parvisignifera - Pseudophryne bibronii. Pseudophryne coriacea.

CAMIRA S.F. 22/5/97

FAUNA Survey etc..

Robert Kooyman.

Cmpt. 79/80 - Camira Rd.... Relocate YBG incision tree (Date Derogates AMG!)

NS: Haven't been able to relocate it...?.. 1km down Rd.

Whiparié - 1:25,000
933 607...

Sandy section of road toward top - (M. M. M. Rd)
Footprints: Dog, feral cat, and fox.

- Check for Alphitania... mitterae.

Cmpt. 73 - Eastern grey kangaroos.
Swamp wallaby
Fuscous honeyeater.

CMP. 77 - 6pm. On Redgum flat - S.E. ... - Full moon. O, weather: fine, clear, no wind.
Litter - 30 mins... frogs - Crinia signifera
Crinia parsignifera
Litoria sp.

Playback calls - Masked owl - no response
YBG - no response
KOALA - no response.

end. 7:30pm...

START WALKING SPOTLIGHT TESTS - 8pm.

1. Follow Redgum flat - Sugar Glider - calling.
Dingo X - spotlight.
Whiptail wallabies - spotlight.

Return - 9:00 pm..... set up camp - 9:30pm.

Playback calls - Masked owl - no response.
Barking owl - long sequence of persistent calls in response to 'playback' tape.
Bird flew up to Redgum nearby....

... spotlighted - watched while calling continued
no. Chest markings appeared quite bold in spotlight (through binoculars 10x25).

Powerful owl - no response.
YBG - no response.
Squirrel Glider - no response.

10:00 pm - ENO - Barking owl still calling!

Lam. - Squirrel Glider - calls...?

* Digings - Potoroo
Bandicoot

27th May, 1997..

CANISA S.F.

Robert Kauffman

cnpt. 78.

Weather: fine, cool, clear, no cloud, no moon.

* Set up ANABAT 5 with Computer - several calls. (Training session).
Myall Ck - set up.... two harp traps in creek - 7:15pm - (Harvey/Douglas)

- 4 (four) *Miniopterus australis* (one trap). forelimbs less than < 44 mm (36 mm).
- body length 45mm.... Captured in harp trap -

* released / recorded on ANABAT direct to LAPTOP Computer.... (release calls only)

8:20pm: walking spotlight transect:

listen: 10 mins - Didgo howling.....

small macroglossid near creek. (heard). - Potaroo?
Whip tail wallabie... (along tk).

cnpt. 79/78 boundary - walk into cnpt. 78. along Myall Ck tk.

- str. Boobook owl. (2) - very quiet night.

- *Nictophilus (gouldii)* - flying in spotlight beam.

* 9:30pm - End transect..... return walk.... 10pm.

Check Harp traps on creek. - Squirrel Glider calls - near creek. -

Set up ANABAT for driving sample - 10pm. moon-rise \odot - $\frac{1}{2}$ moon.

START. 10:30pm. Kevin & Noel on ANABAT.

RK - call playback & driving sample. - S.W. corner - cnpt. 78.

Masked owl - no response.

YBG - no response.

listen-:

END 11:15pm.

NB: cooler than last week, frogs now difficult to locate (many spp. here)

Travel back to Myall Ck campsite - close to Harp traps - check traps then
set up camp. 12:00pm.

28/5. 7:30am - clear harp traps - 1 Common Bankswallow - *M. australis*.
- Habitat searches, owl roost searches, veg. survey....

Cyperaceae: *Cyperus* sp. triquetrous, single stem to terminal inflorescence, seed head. 15-30 cm. 20cm...
- wet areas, swampy edges, wet parts of grassy flats.... subject to inundation...

* Digging in sandy areas look like Potaroo.....

28th May, 1997.

CAMIRA S.F.
Cmpt. 78.

FAUNA SURVEYS.

Robert Kooyman.

- Release (*M. australis*) bat from Harp-trap.
- move to Cmpt. 73 - swamp area for ANABAT AND Walking Spotlight traverse.

weather: fine, clear, warm day,
cool night.
moon phase - : $\odot \frac{1}{2}$, after 10p-

8:30pm Walking transect START: Spotlight & ANABAT (Bitter's Bight).

LISTEN: Omnis — YBG³ calling — Spotted gum area just upshore.

THREAT: YBG, Sq.G., Potoroo, Belling.

Spotlight walk — 250m — YBG — Redgum / swamp type with *Banksia integ.*

spotlight — Whiptail wallabies — (>2) on drier ground.

Eastern gray — wetter areas.....

700m — YBG calling — approx. 80m.

1km (across creek) — Squirrel Glider (calls..... very intermittent....

- large opening — Sugar Glider(s) calling — (S.E.) YBG³ calling....

- Squirrel Glider(s) — on *Banksia integrifolia* etc....

Return to vehicles —: Whiptail Wallaby....

10:30pm — START PLAYBACK CALLS —:

- Marked owl — no response....

- Kooka — no response....

YBG — already called

Sq.G. — spotlight / calls.

end. 11:00pm.

Drive back — Disc Rd — *Long nosed Potoroo* on road — settled down in light — moved around — close up sighting with binoculars and unassisted eyesight — 100% Potoroo. >30 secs. viewing time.

→ Myall Gk crossing — *Mixophyes fasciolatus*. (11:35pm). *Potoroo — over crossing.....

- Check Harp-traps — both empty... 11:50pm. Return to camp — 12:00pm. END.

- Barking owls — calling.

* 29/5/97 — Pack up Harp-traps — 1 (one) *M. australis* — release tonight....
A.M.

* Most diggings along creek flats, swamp edges look like Potoroo.....
— this seems supported now by confirmed sightings of the animal.

29th/May, 1997. — RELEASE *M. Australis* — on dusk....

NB: for final report: It should be possible to retain all trees with hollows (regardless of size class) and full floristic diversity (overstory & understorey), in this operation.

THURSDAY 29th MAY, 1997.

NIGHT (FRANK'S SURVEYS).

CAMIRA S.F.
Cmpts. 73-78.

ROBERT KOOYMAL.

5:20pm - Release M. australis (bat)....

4:30pm → Barking owls (calling from Roost site on Myall Gk. Cmp. 78 boundary).

- START SPOTLIGHT (DRIVING) TRACKS -:

For mapping. - Cmp. 79. Myall Gk to YBG - V-notch tree - 250 metres.

- Myall Gk track - Cmp. 78/79. - YBG's calling.

- Barking owls / calling.

Cnr. Disc Rd and Old Tentfield Rd (Lawrence Rd).

7:00pm. Playback calls -:

Masked owl	- no response
YBG	- no response
Koala	- no response.

7:30pm - Litter: Smalls

To Batters Bight - Cmp. 73 - Target Survey - Squirrel Gliders..

8:00pm. Walk through Redgum / Barkian & swamp series Ft. 32. 1 km.

- YBG calls,

- several short calls - Squirrel Gliders (not located visually).

10:00pm. return walk.

* Travel to Cmp. 77. set up camp ... 11:00pm. END.

- Koalas calling.... (approx. 2am)... Redgum / adj. Sp.G. / BK. (along drainage line).

Fri. 30th May:

Frank's Rd. - sandy section of track.... read footprints - dog, cattle, cat,
(extensive).... 100% - * Potoroo (front & rear prints) ✓
- further up Rd. - Bandicoot tracks, (front & rear prints).
Cattle, dog. * Potoroo, larger macropods.
larger macropod (Whiptail)
bird tracks....

NEXT WEEK:

Fri. A.M. - Check YBG trees on - Green's Rd etc... check general area for V-notches etc.
- Batters Bight etc...

Tues. 3/6/97. CAMERA S.F.

Flores & Fauna survey -

Robert Kooyman.

weather: mostly fine, clear,
very light breeze,

Check YBG areas for V-noted, incision trees.

- marked several ... 74, (near boundary 72).

- Glossy Black Cuckoos (3) on bee-site corner on Green's Rd. (Capt. 72).
(YBG site - top end).

5:30pm: Road (73/74) Boundary. N^o end - YBG site.

5:48pm - YBG^s calling close by.... feral cat - several calls...

- drive down road (south) - Playback call site - ! listen 10 mins...

Kooka - no response

YBG - distant calls...

MASKED OWL - no response...

8pm - Frerays Gate Rd - 2 small macropods - Rufous Bettong.
(spotlight) .. Totaroo - just on side of road.

8:30pm END - set up camp - 9pm.

PLAYBACK calls - : MASKED OWL - no response
YBG - no response
Kooka - no response.

9:30pm. END.

Specimens collected:

Gladiola type water plant....?

Dandelion linguiforme (no name).

Solanum sp. (prostrate form).

Sorghum spp.??

Oxalis sp.

Diplazium sp.

Goodeniaceae:
(yellow flowered).

Well. 4/6. - Alternanthera sp. (check species).

Cinnamomum camphora. Velleia (paradoxa (0-2). (Goodeniaceae).

Euc. pitularis (sandy creek). Euphorbia sp. ... check.

- Check Potaroo tracks - Frerays Gate Rd. - 100% ✓.

Melaleuca alternifolia - swamp section - swamp - been cut.... many dead?

Field cormorant

White faced heron

Wood ducks

Plovers...

(Jabiru) Aliparis...

Blue faced honeyeater

leather headed.

Potaroo diggings.... mostly in sandy areas...

CAMIRA S.F.

Robert Keegan.

Thurs. 12th June, 1997.

FAUNA SURVEY

● - nearly $\frac{1}{2}$ moon. Fine, clear, warm day (23°C), cool night - $<15^{\circ}\text{C}$.
FRANEY'S GATE RD. cna. 74/76. - light breeze - to no wind

6:00pm - listen - 15 mins.... Brush-tail possum (calls).

6:15pm - Play back calls - Powerful owl - no response.

Ridge-top Spotted-gum.

Masked owl - no response (short call only/not too).

E. (henryi) fern...

Koala - no response

YBG - no response

Squirrel Glider - no response.

- Franeys Gate Rd - 1 km - Spotlight - driven....

Boundary trail (south....) toward Myall Gk.

7:30pm Playback site - : Masked owl - no response

Listen 10 mins:

Powerful owl - no response

- White-throated nightjar.

Koala - no response

- small macropods... (Potoroo)

YBG - no response

Squirrel Glider - no response.

8:20pm drive to campsite - spotlight

- Myall Gk camp 8:45pm. set up camp. 9pm

- YBGs calling ... around camp

*Get results of soil sampling -:

*NIGHT SAMPLES NEXT WEEK 16/6 - 20/6, ○ FULL MOON.
(depos to following weeks....)

18th June, 1997. CAMBIA SF (73-78). Robert Karyman.

NIGHT SURVEY: ○ FULL MOON. weather: no wind, partly cloudy, cool...

START: my camp - Myall Ck - boundary Cnpts. 76, 78.

(6:30 pm - 7:00) YBG^s calling wood ducks (flaw in, calls).

8:00 pm - walking Spotlight transect. (into Cnpt. 76).

- YBG calling along Myall Ck.

- Koala calling ---- (long duration... Playback crr. (Ker/Nod).
(at 60° - Som...?).

- Barking owl - calls...

Return walk. 9:30 end.

- YBG^s calling around camp. (den sites etc.... in this area).

CNPT. 78.... Bandicoot

* 19/6/97 - diurnal - Potoroo diggings / tracks on sandy areas adjacent Myall Ck.
Potoroos 90% on 'sandy' areas --- upslope & downslope...

Koala scats / scratches on Grey gum, Flooded gum, Red gum, BWD,
occasional Spotted gum & Stringybarks, IBK.

* CASINO OFFICE: 1. Core soil mapping etc.
2. Description (botanical) for *Gravillea* 'banyabba'. (D. O'Neil).

Flora: add: *Clonaria aristata* (vol).

* Specimen collected (Cnpt. 76) - marked with orange tape (toward western boundary - below mill....)
Gravillea spp. 'banyabba'. ✓

Cirsium sp. (vol).

Epilobium bithersianum subsp. *cinerum* (vol).

Phylidrum lauriginosum (summit / lagoon) etc...

Ruellia sp.

19/6/97 - Spotlight walk - Cnpt. 77 - Myall Ck. (west) ○ Full moon.

YBG^s calling - Ft. 48, 91, etc.

weather: light breeze, light cloud,
warm/cool.

Squirrel glider - calls.

Tues. 24th June, 1997 Carnies S.F. Robert Kanyan
 No moon (until later in night), weather: fine, clear, no wind, cool.
 CAPSIZ: Myall Ck — listen 5:30pm → 6:30pm

YBG^s - calling ... glided over camp ... settled in Flooded gum nearby;
 spotlighted for several minutes, calls to others nearby ... return calls
 from nearby, and Myall Ck (50m). Glides from Fig. gum to Redgum
 around camp...

Bardicot --- movement, snuffling & 'cough' (stom...

--- short call, sounded like Squirrel glider ... too brief...

Capt. 76.

- Walking Spotlight transect —: start. 7:30pm. Listen: 10 mins - nothing heard.

Track off Disc Rd (before Francy's Gate Rd) - nothing seen or heard.

return vehicle: 8:30pm.

* Redgum in flower - YBG^s feeding, birds very active during daylight.....
 - For calling near Myall Ck. (bottom Capt. 77).

Wed.
 25/6/97 - Capt. 78 - Potoroo tracks - western boundary (sandy soils....)

NB: In Report provide species lists etc. for faunal groups - type of record eg.
 --- then Records, habitat assessments, limits of sample ie.
 'rapid survey' design, seasonal constraints etc...

ANABAT (saw)
 Harp Larks
 Spotlight
 calls (listen)
 playade top
 tracks
 scats
 other ...

- all: Regent Honeyeater - likely ... not recorded yet!