

BANKSIA ROAD NATURE RESERVE, PEEL ESTATE

Boundary Definition: protected area boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 353

Area (ha): bushland 32.3

Map no. 71

Map sheet series ref. no. 2033-II NE

Other Names: Reserve C28167, Part Submission Area 13, part of Jandakot Regional Park

Local Authorities (Suburb): Shire of Serpentine-Jarrahdale (Oldbury), Town of Kwinana (Casuarina)

Includes CALM Managed Land: Reserve 28167 (Conservation of Flora and Fauna)

System 6 (1983): M100 All System area bushland, total area described

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Bassendean Dunes

Bassendean Sands (Qpb: S8)

Wetlands (within the Bassendean Dunes)

Holocene Swamp Deposits (Qrw: Sp1)

VEGETATION AND FLORA

Vegetation Complexes

Bassendean Dunes

Bassendean Complex — Central and South

Floristic Community Types

Supergroup 2: Seasonal Wetlands

13 Deeper wetlands on heavy soils

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

22 *Banksia ilicifolia* woodlands

23a Central *Banksia attenuata* — *B. menziesii* woodlands

WETLANDS

Wetland Types: dampland

Natural Wetland Groups

Bassendean Dunes

Jandakot (B.3)

Wetland Management Objectives: Conservation (1.9ha)

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated wetland, vegetated uplands

Vegetation and Flora: limited survey (Crook 1980, Gibson *et al.* 1994 (Bank 01–04), Trudgen 1990); detailed survey (Keighery, GJ, 1996)

Structural Units: mapping (Crook 1980)

Uplands: *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* Low Woodland with scattered emergent

Eucalyptus marginata; *Banksia attenuata*, *B. menziesii* and *B. ilicifolia* Low Woodland, with scattered

Eucalyptus marginata, *Melaleuca preissiana* and *Nuytsia floribunda*

Wetlands: *Hypocalymma angustifolium* and *Astartea* aff. *fascicularis* Open Heath with scattered low *Melaleuca preissiana*

Vegetation Condition: >90% Excellent, <10% Very Good (Gibson *et al.* 1994, Trudgen 1990)

Total Flora: 150 (Keighery, GJ, 1996) (estimated >75% expected flora)

Significant Flora: *Boronia crenulata*, *Gyrostemon subnudus* (southernmost population on Swan Coastal Plain, Keighery, GJ, 1996)

Fauna: limited survey for birds (25 species) and mammals (1) (Crook 1980). Significant bird species: category 3 (3) and category 4 (2)

Linkage: adjacent bushland to the north, east and west

Other Special Attributes: included in Jandakot Botanic Park Proposal (MfP 1995)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Entered in the Register of the National Estate

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Rarity, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation

Recommendation: Site with Some Existing Protection; the care, control and management of this Site (Reserve 28167) for conservation purposes within Jandakot Regional Park is endorsed (see Table 3, Volume 1).

BANKSIA ROAD NATURE RESERVE, PEEL ESTATE

Boundary Definition: protected area boundary

SECTION 1: CADASTRAL INFORMATION

(Lots, locations and derived information to be updated in the public submission period)

Bushplan Site no. 353 **Map no.** 89 **Map sheet series ref. no.** 2033-II NE

System 6 (1983): M100 All System area bushland, total area described

Other Names

Reserve C28167, Part Submission Area 13

Local Authorities (Suburb)

Shire of Serpentine-Jarrahdale (Oldbury), Town of Kwinana (Casuarina)

Ownership Categories

State Government

Area (ha): total 32.9; bushland 32.3

Zoning

MRS: Parks and Recreation, Rural

TPS: Rural, Landscape

Lot/Location/Reserve numbers (Purpose),

Street name

26 Coyle Rd; 442 Banksia Rd

Crown Reserve

Reserve 28167 (Conservation of Flora and Fauna)

CALM Managed Land

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Wetlands (within the Bassendean Dunes)

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Not assessed

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Linkage: adjacent bushland to the north, east and west

Other Special Attributes: included in Jandakot Botanic Park Proposal (MfP 1995)



SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Listed on the Register of the National Estate

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Rarity, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation

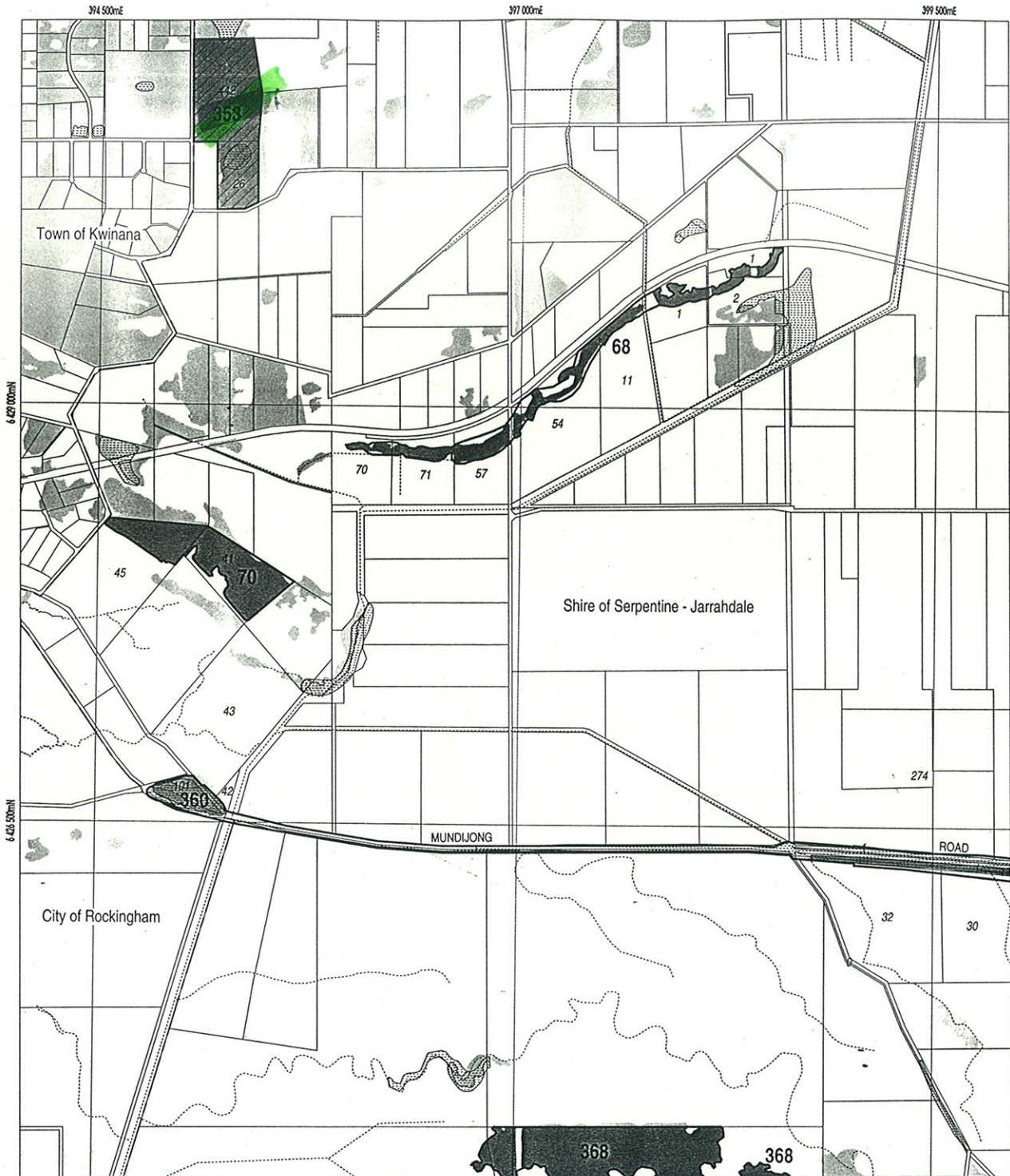
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site subject to Peel-Harvey Estuary EPP/SPP; location of conservation category wetlands; under MRS Parks and Recreation Reservation and TPS Landscape Zoning, Crown Reserve

Constraints: under General Mineral Resource Area (sand)

Recommendation: The care, control and management of this Bushplan Site (Reserve 28167) for conservation purposes within Jandakot Regional Park is endorsed.





LEGEND

- Bushplan Sites With Regionally Significant Bushland
- Other Native Vegetation
- Conservation Category Wetlands
- Bushplan Sites With Some Existing Protection
- Lot Number, Location Number
- Channel Wetlands
- Local Government Boundary

2033 - II NE

IV	I
2033	
NW	NE
SW	SE

1 : 25 000 AMG Reference Grid showing Perth's Bushplan Map Sheet Breakdown

PERTH'S BUSHPLAN MAP INDEX

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
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107	108
109	110

SCALE

0 500 1000

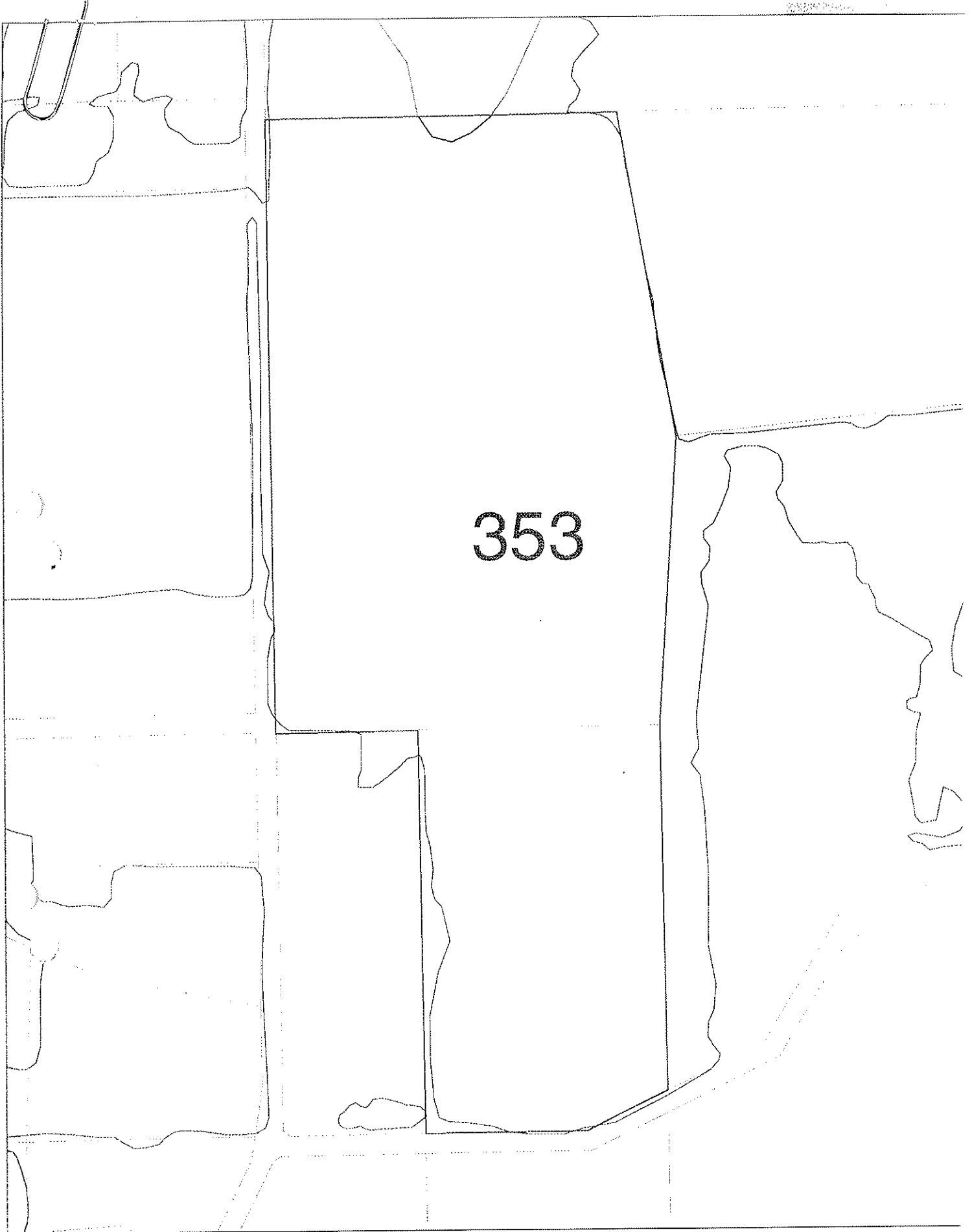
Metres

Produced by Project Mapping Section
Land Information Branch, Ministry for
Planning, Perth W.A. November 1998
ntw-map9/environ/bushplan/bushv2_89.dgn

Cadastral Data supplied by Department
of Land Administration, W.A.

Wetlands Data supplied by
Water and Rivers Commission

Native Vegetation Extent for Study Area
supplied by Agriculture Western Australia

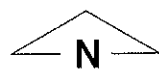


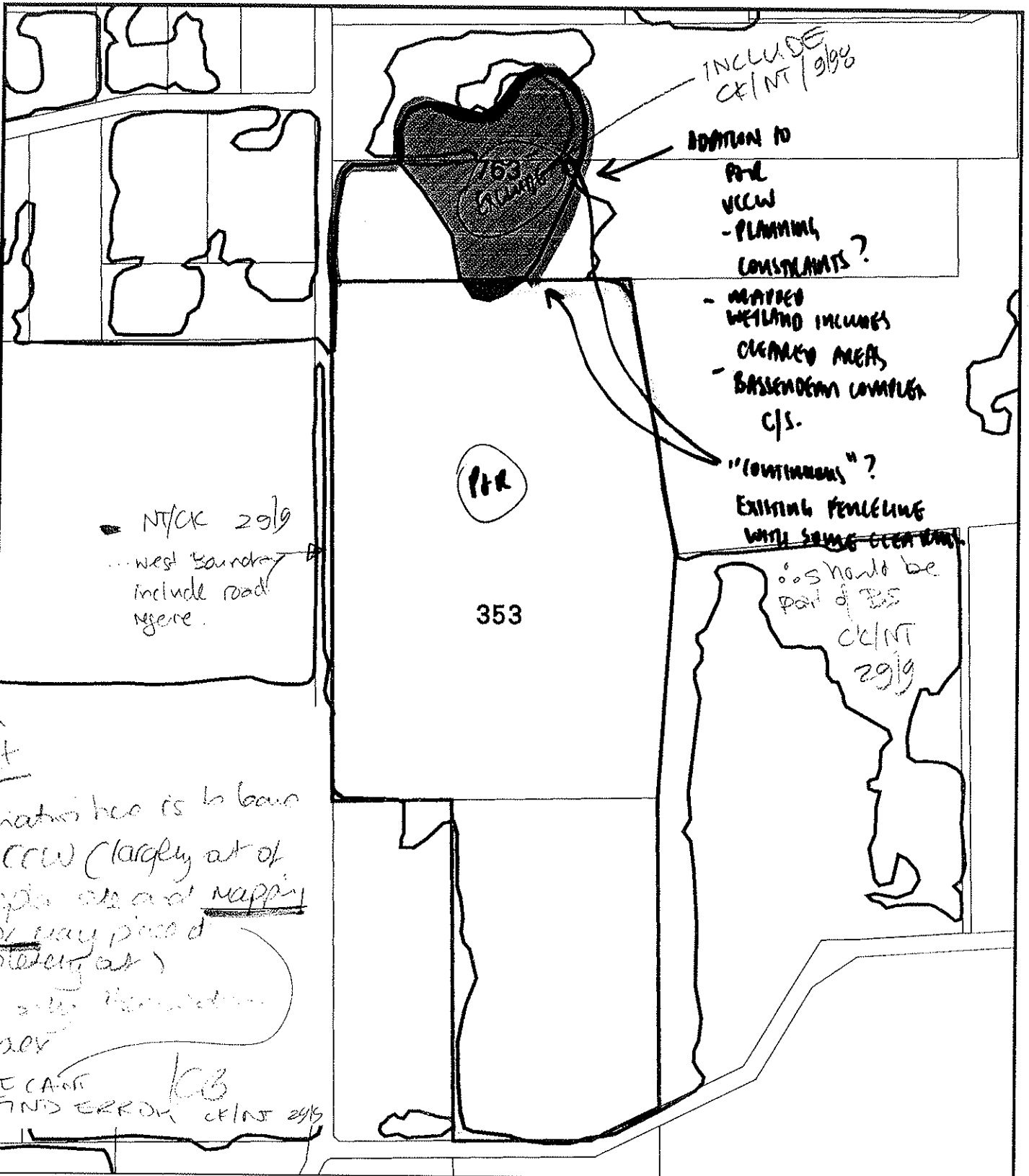
353

BUSHPLAN SITES CORRECTED



**WESTERN
AUSTRALIAN
PLANNING
COMMISSION**





INCLUDE
CC/NT 29/9

ADDITION TO
PRE
VECW
- PLANNING
CONSTRAINTS?

- MAPPED
WETLAND INCLUDES
CLEARED AREAS
- BASELINE COMPLEX
C/S.

"CONTINUOUS"?

EXISTING FENCING
WITH SOME GAPS

dots should be
part of BS
CC/NT
29/9

- NY/CX 29/9
... west boundary
include road
Ngere.

P/R

353






Gift

Indication here is to base
on CCW (largely at of
boundary area and mapping
error may place
a piece of it)

Also note the location
Complex

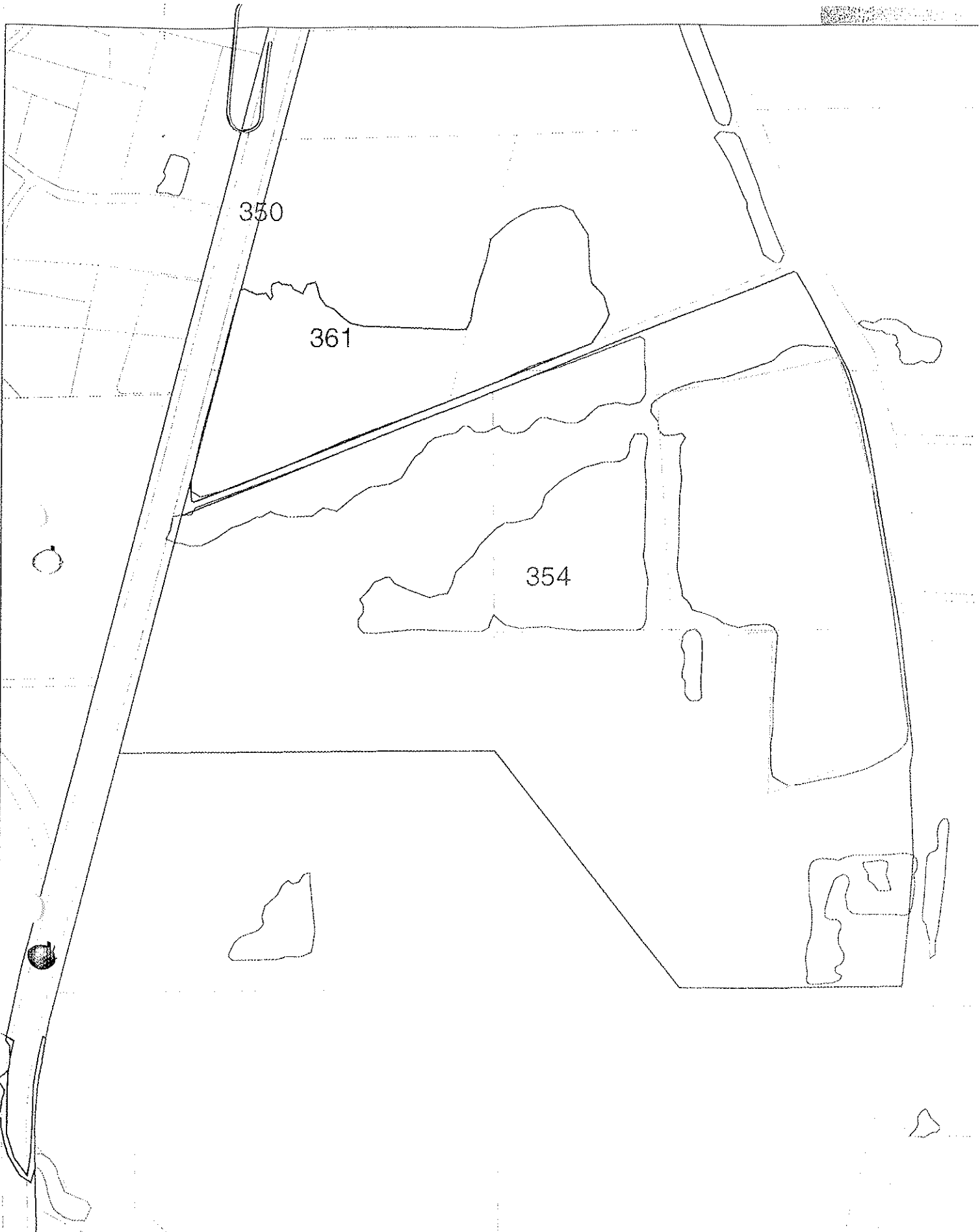
WE CAN'T
FIND ERROR CC/NT 29/9

bp site 353

-  AG VEG 1998 BOUNDARY THEME
-  Cadastre
-  Bushplan sites refno 1-500 SCP BOUNDARY THEME
-  cons category wetlands
-  Verified CCWs

MFP INTERNAL USE ONLY
Prepared By: Andrea Zappacosta
Prepared For:
Map Ident: plot980602_1
Date: 02 Jun 98
Scale 1:6415

29/9/98
CC/NT
• change boundary
to line road
② include CCW
+ adj bush



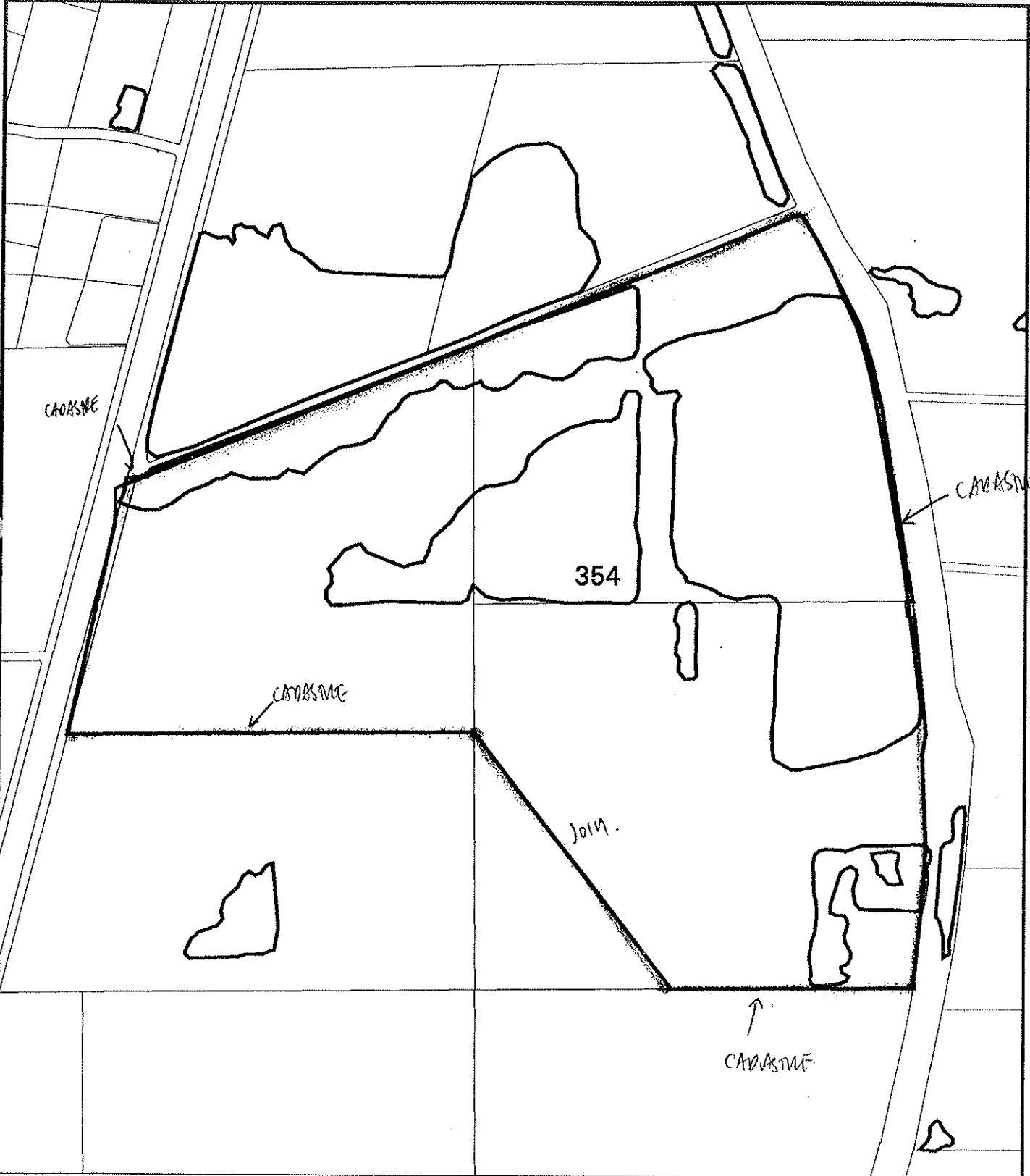
BUSHPLAN SITES CORRECTED



WESTERN
AUSTRALIAN
PLANNING
COMMISSION



B 61/27/1



bp site 354

- AG VEG 1998 - BOUNDARIES SCP
- Bushplan sites refno 1-500 SCP BOUNDARY THEME
- Cadastre

OK This is a management boundary, one of tens in Bushplan.

MFP INTERNAL USE ONLY
 Prepared By: Andrea Zappacosta
 Prepared For:
 Map Ident: plot980915_1
 Date: 15 Sep 98
 Scale 1:12769

AREA INFORMATION

System 6 Area (C or M) or Update Area (Update)

M100

Conservation Area	
Nature Reserve	South-west of Lyford
Reserve No	C28167
National Park	
Reserve No	
Local Government	
Reserve No	
Other	
Proposed Conservation Areas	
Local Government	
Reserve No	
Other	

Conservation Area

Nature Reserve	
Reserve No	
National Park	
Reserve No	
Local Government	
Reserve No	
Other	

TOTAL AREA

Bushland Area	hectares
Completely Degraded	

AREA MAPPED FLORISTIC UNITS

CAUM - some boundaries

Units	Site (Condition)	Code	U BANK	Bound	Area (ha)
13	01a (2)				
22	01 (1.5)				
23a	02 (2)	03 (-)			

Boundaries determined by use of

aerial photograph	Mewo Street Directory run to 5055 5/1/91
orthophoto	2033 11 NE Aug 1991
vegetation map	
soil map	

with M98

- to incorporating this area in the Shire's Conservation Zone Policy Area, through the Rural Strategy Review process. (Area 33.2 ha)
- xiii. Serpentine National Park & adjacent bushland Site 468 Vol 2 115-116 CALM managed land. Major need for weed control in National Park and adjacent state government lands.
- xiv. Kingsbury Drive Bushland Site 76 Vol 2 Pg 117 Council notes the importance of this vegetation and believes that protection and management of the site's vegetation is best achieved by working directly with the affected landowners. Consideration may be given to incorporating this area in the Shire's Conservation Zone Policy Area, through the Rural Strategy Review process. (Area 40.6 ha). One-to-one consultation with landowners is required.
- xv. Myara Brook Bushland Site 126 Vol 2 pg 118 -119, known locally as the Myara Brook Reserve; currently undergoing vesting change to be vested with Local Authority for the purposes of protection of Indigenous Flora and Fauna. Active management by local authority and community with support of federal and state government grants. Council supports retention of reserve, with assistance from State Government to fund management.
- xvi. Anketell Road Bushland Site 347, Vol 2 Pg 213-214; Shire supports inclusion of land within Jandakot Botanical Park, except for cleared areas which should be assessed for alternative or complementary uses. Council proposes to site the Oakford voluntary Fire Brigade and a small meeting place on a 4000 m2 lot on the Pony Way frontage. This site is surrounded by a clearing of over 20 ha. Usage of this small portion of the clearing for community uses is complementary to the protection of the remaining 558.1 ha.
- xvii. Modong Nature Reserve and adjacent bushland Site 348 Vol 2 pg 219 - Council notes the importance of this vegetation and the inclusion of private property.
- xviii. Duckpond Bushland Site 350 Vol 2 pg 222. Council notes the importance of this vegetation. Council believes that protection and management of the site's vegetation is best achieved by working directly with the affected landowners. Consideration may be given to incorporating this area in the Shire's Conservation Zone Policy Area, through the Rural Strategy Review process (area: 23.5 ha). One-to-one consultation with landowners is required.
- xix. Banksia Road Nature Reserve Site 353 Vol 2 pg 223-224. CALM estate.
- xx. Lowlands Bushland Site 358 & Site 359 Vol 2 pg 224-227. Council notes the inclusion of this site in Perth's Bushplan. These sites are two of three properties currently before the Ministry for Planning for rezoning to Conservation. It is important that the rezonings be finalized as a matter of priority, so that an example is set for the Perth Metropolitan Area.
- xxi. Henderson Road Bushland Site 378 Vol 2 pg 229-230. Council notes the importance of this vegetation. Assistance needs to be given to landowners to fence off vegetation from stock. Council believes that protection and management of the site's vegetation is best achieved by working directly with the affected landowners. Consideration may be given to incorporating this area in the Shire's Conservation Zone Policy Area, through the Rural Strategy Review process. One-to-one consultation with landowners is required.
- xxii. Yangedi Swamp and adjacent Bushland, Site 377, pg 230-231, Council notes the importance of this vegetation. Assistance needs to be given to landowners to fence off vegetation from stock. Consideration will be given to incorporating this area in the Shire's Conservation Zone Policy Area, through the Rural Strategy Review process. One-to-one consultation with landowners is required. The site also includes one property currently before the Ministry for Planning for rezoning to Conservation. It is important that the rezoning be finalized as a matter of priority, so that an example is set for the Perth Metropolitan Area and other landowners. One-to-one consultation with landowners is required.
- xxiii. Wungong Brook Site 266 Vol 2 pg 402-403 Council notes the importance of this vegetation. Protection of the vegetation should be achieved through its inclusion in the proposed public reserve.

CONTACT JOHN GIBSON CALM WOODVALE for further information.

Flora list for M100 Reserve C28167, south-west of Byford (extracted from Swan Coastal Plain database, 126 taxa, Bank 1-4, 4/5/1995).

Department of Environmental Protection System 6 Update: Site Based Flora List M100 Reserve C28167, south-west of Byford

(extracted from the CALM Swan Coastal Plain database, 126 taxa, Bank 1-4, 4/5/95)

Anthericaceae

Arnocrinum preissii
Caesia occidentalis
Chamaescilla corymbosa
Corynotheca micrantha
Laxmannia ramosa
Laxmannia squarrosa
Sowerbaea laxiflora
Thysanotus multiflorus
Thysanotus patersonii
Thysanotus sp. scps
Tricoryne elatior
Tricoryne tenella

Apiaceae

Actinotus glomeratus
Trachymene pilosa
Xanthosia huegelii

Asteraceae

Brachyscome iberidifolia
* Hypochaeris glabra
Lagenifera huegelii
Podotheca angustifolia
* Ursinia anthemoides
Waitzia suaveolens

Casuarinaceae

Allocasuarina fraseriana

Centrolepidaceae

Centrolepis drummondiana

Colchicaceae

Burchardia umbellata

Crassulaceae

Crassula colorata

Cyperaceae

Baumea vaginalis
Lepidosperma "coastal terete" scps (BJK&NG 231)
Lepidosperma angustatum
Lepidosperma scabrum
Mesomelaena pseudostygia
Schoenus clandestinus
Schoenus curvifolius
Schoenus pedicellatus
Schoenus rodwayanus
Schoenus subbulbosus

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Dasyogonaceae

- Dasyogon bromeliifolius
- Lomandra hermaphrodita
- Lomandra micrantha
- Lomandra preissii
- Lomandra suaveolens

Dilleniaceae

- Hibbertia hypericoides
- Hibbertia racemosa
- Hibbertia subvaginata
- Hibbertia vaginata

Droseraceae

- Drosera erythrorhiza
- Drosera macrantha
- Drosera menziesii
- Drosera paleacea spps subsp. paleacea
- Drosera pulchella

Epacridaceae

- Conostephium pendulum
- Conostephium preissii
- Leucopogon conostephioides

Euphorbiaceae

- Amperea ericoides
- Poranthera microphylla

Goodeniaceae

- Dampiera linearis

Gyrostemonaceae

- Gyrostemon subnudus

Haemodoraceae

- Conostylis aculeata
- Conostylis juncea
- Phlebocarya ciliata

Haloragaceae

- Gonocarpus pithyoides

Iridaceae

- Patersonia occidentalis

Lamiaceae

- Hemiandra pungens

Lauraceae

- Cassytha racemosa

Lobeliaceae

- Lobelia tenuior

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Loganiaceae

Mitrasacme paradoxa

Mimosaceae

Acacia "applanata" scps map

Acacia huegelii

Acacia stenoptera

Acacia willdenowiana

Molluginaceae

Macarthuria australis

Myrtaceae

Astartea aff. fascicularis sthst

Calytrix flavescens

Calytrix fraseri

Eremaea asterocarpa subsp. asterocarpa

Eucalyptus marginata

Hypocalymma angustifolium

Hypocalymma robustum

Melaleuca preissiana

Melaleuca teretifolia

Pericalymma ellipticum

Scholtzia involucrata

Orchidaceae

Caladenia flava

Leporella fimbriata

Lyperanthus nigricans

Pterostylis vittata

Thelymitra aff. pauciflora scps

Thelymitra macrophylla

Papilionaceae

Aotus procumbens

Bossiaea eriocarpa

Daviesia physodes

Euchilopsis linearis

Eutaxia virgata

Gompholobium tomentosum

Hovea trisperma var. trisperma

Jacksonia aff. sericea "swamp form" scps

Jacksonia sternbergiana

Poaceae

* Aira sp. scps

Amphipogon turbinatus

* Briza maxima

Danthonia occidentalis

Poa drummondiana

Stipa compressa

Stipa semibarbata

Polygalaceae

Comesperma calymega

Comesperma virgatum

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Proteaceae

Adenanthos cygnorum
Adenanthos obovatus
Banksia attenuata
Banksia ilicifolia
Banksia menziesii
Petrophile linearis
Stirlingia latifolia

Restionaceae

Hypolaena exsulca
Lepyrodia muirii
Loxocarya flexuosa
Lyginia barbata

Rubiaceae

Opercularia vaginata

Rutaceae

Boronia crenulata
Eriostemon spicatus

Stylidiaceae

Levenhookia stipitata
Stylidium brunonianum
Stylidium carnosum
Stylidium piliferum
Stylidium repens
Stylidium schoenoides

Xanthorrhoeaceae

Xanthorrhoea preissii

M100 Reserve C28167, South of Byford
Banksia Road Nature Reserve

Friends Advocate Management

Other Names:

Specific Study/studies Miscellaneous studies

Flora

Vegetation Map 1 2 3
Flora list 1 2 3 4
Significant Taxa done / suitable / doubtful

Fauna

Mammals 1 2
Birds 1 2 RAOU
Reptiles and Amphibia 1 2
Invertebrates 1 2

Vegetation Condition Map Sites Comment

Disturbance Factors Comment Management

Swan Coastal Plain Floristic Survey 4

AHC: National Estate - Listed Interim / Nominated / Notified NT (WA): Heritage Classification

Notes

M100 Reserve C28167, South of Byford
Banksia Road Nature Reserve

M100.1 Existing purpose and vesting of
Reserve C28167 is endorsed.

Implemented

Endorsement.

DFUD proposes that the area be included in
the Jandakot Botanic Park which was
proposed as a regional park in Metroplan.



WETLANDS CONSERVATION SOCIETY (INC)

c/- 14 Stone Court, Kardinya, WA 6163

6 atot

16 July 1995

The System Six Study Team
Department of Environmental Protection
141 St George's Terrace
Perth WA 6000

Dear Sir,

System Six Review

The Wetlands Conservation Society wishes to make a submission to the System Six Review. This submission is in two parts. Firstly some comments on the general principles and secondly some specific nominations.

(1) General Principles

The original System Six Red Book, published in 1983, included 19 general recommendations. Many of these are now irrelevant or outdated. Recommendations 1 - 6 relate to the management of State Forests. These have been overtaken by events. It is now clear that the only effective way to conserve State Forest is to place it in national parks or nature reserves. There is an urgent need to set aside a comprehensive and representative system of forest reserves and this should be part of a new general recommendation.

Recommendations 7 - 12 have also been overtaken by events. Many of the areas recommended for protection as reserves have been destroyed (eg. Casuarina M98, Buckland Hill M55, Port Kennedy M106, etc.) Many others have not been established because of CALM's reluctance to take on new reserves without additional funding. Perhaps these reserves should be vested in other authorities (eg. local government, community groups, LCDCs, etc.) if CALM are unwilling to accept them. The Port Kennedy LCDC has done an outstanding job of managing that reserve, for example, at little cost to the WA Government.

Recommendations 13 and 14 are still relevant and they should be supplemented by a recommendation about how this process will be funded. A regional improvement fund like the MRIF should be established to facilitate the acquisition of land for parks and recreation in regional areas.

Recommendations 15 - 17 need very careful attention. Although the Ministry for Planning has done quite a good job of identifying and resuming land for Regional

Parks, CALM has failed to co-operate and so far we still do not have any legally established Regional Parks. The WCS believes that the Regional Park Concept is extremely important in the System Six Area because of the multiple uses of reserves. The concept of a regional park as an area for conservation, recreation and landscape protection is now well established. We have least confidence in CALM's willingness to manage these Parks and we have proposed that MFP should continue to manage them until all of the policy and management issues have been resolved. We believe that funding should come from local authority rates, land tax and development tax. Ultimately a Regional Parks Authority may be the best body to manage them. Because they are so different to national parks and nature reserves the RPA should be quite different from the NPNCA and have its own budget. It should work closely with CALM, MFP and the local authorities.

Recommendations 18 and 19 are still relevant and have been partially implemented. However recommendation 18 does not specify which agency should fund and coordinate this task. This should be addressed in the update.

The General Recommendations should include an additional set which relate to the funding and implementation of the specific recommendations. We believe that there is a need for an implementation committee which will set priorities and review progress. A major review or progress report should be required every three years. A funding mechanism for implementation and management of the System Six conservation estate should be clearly identified in the general recommendations. The failure to do this was one of the main reasons why the original System Six exercise was so unsuccessful.

(2) Specific Recommendations

I am aware that the DEP has provided a detailed nomination form. However, we wish to nominate so many areas that it is quite impracticable for us to fill in such detailed forms. Most of the areas we wish to nominate are already documented in official Government reports, so the degree of detail requested is unnecessary. However, I would be happy to supply any additional information you require for any of the nominations we have made. Please call me on 337 7113 (h) or 360 2274 (w) or 310 1711 (fax) if you need further information.

Our specific recommendations for new areas to be included in the System Six Report are :

(a) The Spectacles Swamps near Kwinana. These are part of the Beeliar Regional Park and are fully described in the Planning Report for that Park. They are also zoned P & R in the MRS.

(b) Long Swamp on Hope Valley Road, Kwinana. This is also included in the Beeliar Regional Park. It is the last of the wetlands in the western chain of the Cockburn Wetlands. It is privately owned.

(c) Bollard Bulrush Swamp in Wellard. This is also part of the Beeliar Regional Park

- (d) Tamworth Hill Swamp in Baldivis. This is part of the proposed Rockingham Lakes Regional park. It is fully documented in the ecological study of the Rockingham lakes carried out by V and C Semeniuk for the Australian Heritage Commission. It is zoned for Parks and Recreation in the MRS and it is affected by a mining claim.
- (e) Anstey Swamp, Baldivis. This is also a part of the proposed Rockingham Lakes Regional Park. It is owned by the MFP and is zoned for Parks and Recreation. It is fully documented in the Semeniuk study and by the EPA in its original report on the Secret Harbour project.
- (f) Paganoni Swamp, Baldivis. This wetland is an outstanding conservation area. It is owned by the MFP and is zoned for Parks and Recreation. It is fully documented in the Semeniuk study and in the Wildflower Society's nomination of this reserve to the Register of the National Estate.
- (g) Lark Hill wetlands. This area lies adjacent to Port Kennedy M106 and contains some important wetlands and parallel dune formations. It is fully described by the Australian Heritage Commission in its listing of the area. The land is owned by the MFP and is zoned for Parks and Recreation. It is intended for inclusion in the Port Kennedy Scientific Park.
- (h) Jandakot Botanical Park. This area is fully documented by the MFP in its Planning study for the Jandakot Botanical Park. It includes some areas such as M97, M98, M99 and M100 which are already in the System Six Red Book. However, there are several other important reserves in this area which should be included in the System Six Report. All of this land is reserved for Parks and Recreation and most of it is owned by the State.
- (i) Piney Lake, Winthrop. This wetland was not included in System Six. However, it is part of the Beeliar Regional park and supports a diverse range of waterfowl and has some remnant vegetation. The City of Melville recently completed a management plan for this reserve.
- (j) Blue Gum Swamp, Mt Pleasant. This wetland is an important wildlife refuge. It is well managed by the City of Melville and is being rehabilitated by a local group. It has a management plan, prepared by the City of Melville. It could be incorporated into M73 as it is very close to Booragoon Lake.
- (k) Brixton Street Wetlands, Gosnells. These important wetlands should be added to M69. Their importance is well documented in the EPA assessment of the housing proposals for this area.
- (l) Ken Hurst Park, Leeming. This is an important area of wetland and banksia woodland adjacent to M94. It contains declared rare flora as indicated in the Floristic Study of the Swan Coastal Plain. The Murdoch Branch of the Wildflower Society has done a detailed flora survey of the site. Contact Diana Corbyn for details.

(m) Twin Bartram Swamp, Hird Road Swamp, Solomon Road Swamp and Gibbs / Russell Swamp in Jandakot. These small wetlands are the best remaining examples of the Jandakot suite of wetlands. They are reserved in the local open space system and are well documented by V. Semeniuk in the report to Gold Estates on Wetlands East of Thomsons Lake.

(n) Creery Wetlands. These important samphire marshes should be added to C50 (Peel Inlet). Their values are fully documented in the Bamford Report which was attached to the proposal for the Harbour City Canal Estate.

(o) Vasse - Wonnerup Regional park. The whole area of the Broadwater, Deadwater and the Vasse Wonnerup estuaries should become a regional park. This concept should be proposed in the System Six update.

(p) Cockburn Wetlands - Eastern Chain M93. The boundaries of this area should be modified to coincide with the boundaries of the Beeliar Regional Park.

(q) Folly, Maramanup, Duck and Beenyup Pools, Baldivis. These small pools on the Folly Drain are important breeding and feeding areas for wildlife. The Folly Drain is an important wildlife corridor and its conservation value should be recognised in the System Six Report.

(r) West Corio Swamp, Karnup. This is an important breeding area for the straw-necked ibis. It should be protected. The EPA did an assessment of it several years ago when sand mining was proposed.

(s) Serpentine River Valley. The entire length of the Serpentine River and its flood plain should be listed in the System Six Report. It is a major wildlife corridor and a habitat for many species. It should be recommended as a regional park.

(t) Wilbinga and Guilderton. Two large blocks of coastal heathland south of the mouth of the Moore River. The Wilbinga block was proposed as a land swap for M1 which has been approved for subdivision. These blocks are adjacent to C12 and together provide an outstanding opportunity to conserve the best remaining transect of coastal vegetation in the northern part of System Six.

If you require further information about any aspect of this submission, please contact me. I would like some feedback on your decision about these areas.

Yours faithfully,



Philip Jennings
President

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1991



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PROPOSED JANDAKOT BOTANICAL PARK
AN ASSESSMENT OF THE CONSERVATION
VALUES OF VEGETATION FLORA AND
WETLANDS BETWEEN JANDAKOT AND WELLARD

February 1990

BOWMAN BISHAW GORHAM
ENVIRONMENTAL MANAGEMENT CONSULTANTS

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smaller more colourful flowers. Grows in winter wet depressions.

Diuris purdei. Found in densely vegetated winter wet depressions on the Coastal Plain. Flowers from September to October after fires.

Drakea elastica (syn. Drakea jeanensis). Found in sandy soils near swamps, often in Banksia woodland on the Coastal Plain from Perth south to Capel but also recorded from the Murchison River. Flowers from September to October.

Drakea micrantha (M.S.). An undescribed species. Grows in open sandy patches on the sandy rises near swamps in Allocasuarina woodland. In the study area it is at the northern limit of its range. Flowers from September to October.

Drosera occidentalis. Found in damp soils on the margins of swamps and in winter wet depressions (in peaty sand). Flowering occurs from November to December. Lowrie (1989) considers it to be "rather common and easy to locate, given knowledge of it's growth cycle and habitat."

3.4.2 Priority Three Species Currently Known for the Study Area

Restio stenostachyus. Found in winter wet depressions and along watercourses. Although Marchant et al (1987) suggest this species could be endemic to the Perth region it is also known from the northern forest region.

Cartonema philydroides. A poorly known and poorly collected species occurring on the Coastal Plain from Guildford south to Capel with an occurrence at Kalbari (probably a separate species). This species may more common than was previously thought (G. J. Kieghery pers. comm.).

Thysanotus arbuscula. One of the fringe lilies, found in Banksia low forest, Jarrah-Marri forest and sandplain low scrub. Grows from 160 km north of Perth to c. 260 km south-east of Perth. Flowers from September to January.

Phlebocarya filifolia. Found in Banksia woodland on sandy soils from south Eneabba to south of Busselton (G. J. Kieghry pers. comm.). A poorly collected species now recognised to be more common than previously thought (Jandakot was previously thought to be the most southerly location for this species).

Jacksonia sericea. Apparently endemic to the Perth Region, found on calcareous and sandy soils of the Coastal Plain from Perth to Pinjarra. Flowers from December to February.

Gonocarpos pithyoides. Found in sandy soils on the Coastal Plain, extending north to Gingin in Banksia woodland. It appears to be poorly collected rather than uncommon.

3.4.3 Priority Two Species Currently Known for the Study Area

Lysinema elegans. This species has been collected from the Jandakot area in the past but has not been recollected there despite some searches. A population was recently found in the Moore River National Park (Griffin and B. Kieghery 1989) and may be the only extant population.

3.4.4 Priority Five Species Currently Known for the Study Area

Dodonaea hacketiana. This taxon is endemic to the Perth region (Marchant et al. 1987), growing from Perth to south of Jandakot.

3.4.5 Other Significant Flora

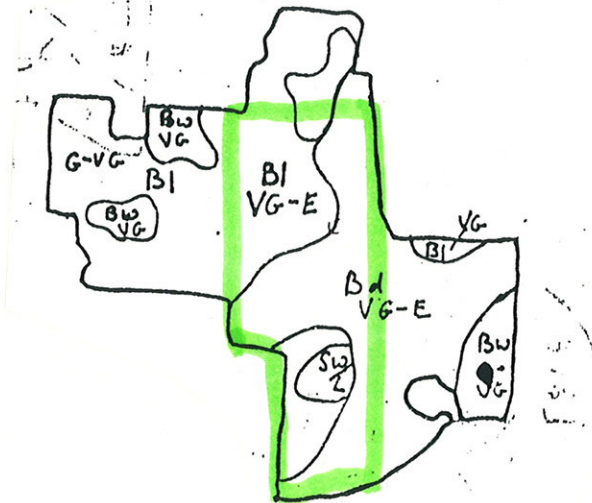
Evandra pauciflora. This species occurs sporadically (in suitable wetland habitat) from the Perth area south to Albany. Probably should be on the reserve list but is uncommon but probably not rare.

Department of Agriculture, Western Australia.

- Trudgen, M.E. (1984). The Leschenault Peninsula - a flora and vegetation survey with an analysis of its conservation value and appropriate uses. Bulletin of the Department of Conservation and Environment, Perth, W. A.
- Trudgen, M.E. (1987). A report on the vegetation of part of Neerabup National Park and adjoining privately owned land, with analysis of the conservation issues involved in a proposed land swap. Unpublished report prepared for Maunsell and partners, Perth
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- Trudgen, M.E. and Kieghery, B. (1990a). A report on the flora and vegetation of the Alkimos area and conservation issues affecting it. Unpublished report prepared for Landcorp.
- Trudgen, M.E. and Kieghery, B. (1990b). A report on the flora and vegetation of the Ningana area and conservation issues affecting it. Unpublished report prepared for Landcorp.
- Weston, A.S. (1989a). Vegetation and significant flora in lots 65 and 66 Anstey/Keane Roads Forrestdale City of Armadale. Unpublished report prepared for G.R. Crimp and partners.

Bowman, Bishaw + Gorham, 1990, Proposed Jandakot Botanic Park

M100 Banksia NR



~~1~~ ~~2~~ ~~3~~

MAP ONE: Significant Remnants of Native Vegetation

Sheet one : Northern Section of Study Area

KEY TO VEGETATION UNITS

Bassendean Complex-Central and Southern

Bd: Low woodland to low open forest of Banksia attenuata-Banksia menziesii with occasional Banksia ilicifolia, Allocasuarina fraseriana, Eucalyptus marginata and Nuytsia floribunda.

B1: Low open forest of Banksia menziesii-Banksia ilicifolia-Eucalyptus marginata with occasional Banksia attenuata.

Bw: Low open woodland to closed heath dominated by species of Myrtaceae. The tree species are predominantly Melaleuca preissiana or Banksia ilicifolia. The understorey include Hypocalymma angustifolium, Pericalymma ellipticum and Astartea fascicularis.

Sw: Woodland of Melaleuca preissiana-Melaleuca rhapsiophylla with occasional Eucalyptus rudis and Banksia ilicifolia. With sedgelands of Baumea and Leptocarpus species and closed heaths dominated by Myrtaceae species.

L: Woodlands of Melaleuca rhapsiophylla-Eucalyptus rudis with the occasional Melaleuca preissiana and Banksia littoralis. The woodlands are interspersed with sedgelands of Baumea, Leptocarpus and Typha and areas of open water.

Karrakatta Complex-Central and South

K: Woodlands of Eucalyptus gomphocephala-Eucalyptus calophylla-Eucalyptus marginata with admixtures of Banksia attenuata-Banksia menziesii and Allocasuarina fraseriana.

KEY TO CONDITION RATING

E = Excellent

VG = Very Good

G = Good

P = Poor.

VP = Very Poor

C = Cleared

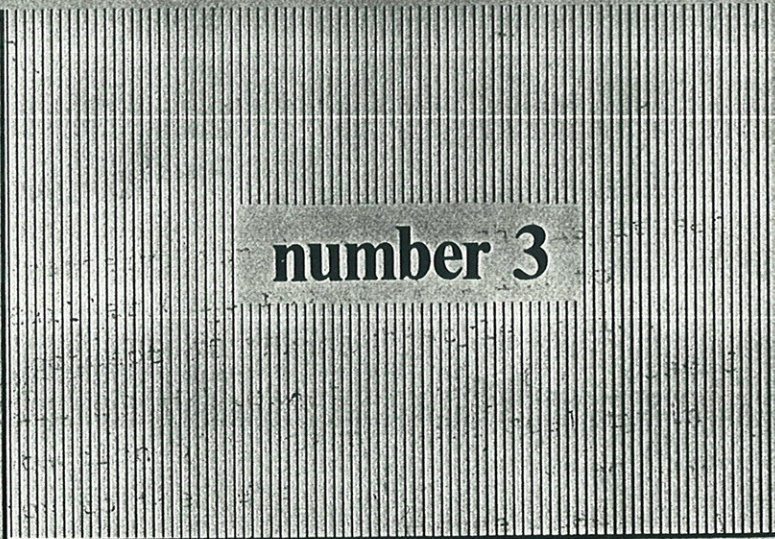
(See text for definitions)

SCALE: Approx. 1: 20,000

SOIL: Sp = Spearwood Sand; Gu = Guildford Formation
(All other areas Bassendean Sands)

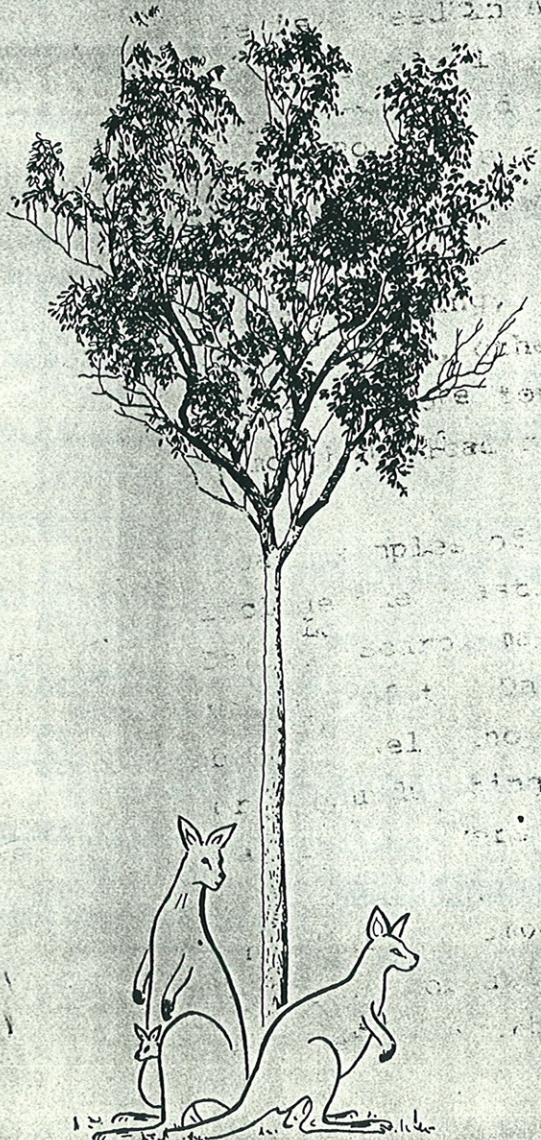
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DRAFT MANAGEMENT PLAN



number 3

Nature Reserves of the Shire of Serpentine-Jarrahdale



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by

Ian G. Crook

DEPARTMENT OF
FISHERIES AND WILDLIFE,
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BASS. S.

PIARRA

CASUARINA

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BASSEND S.

ANST. KEAN

348

BASS. S.

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~~BANKSLA~~

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