

DECOURCEY WAY BUSHLAND, MARANGAROO

Boundary Definition: protected area/bushland boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 328

Area (ha): bushland 32.8

Map no. 34

Map sheet series ref. no. 2034-II NW

Other Names: Marangaroo Golf Course

Local Authorities (Suburb): Shire of Wanneroo (Marangaroo, Madeley)

System 6 (1983): M12 part System area bushland, only bushland described

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

Karrakatta Complex — Central and South

Floristic Community Types

Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau

20a *Banksia attenuata* woodlands over species-rich dense shrublands

WETLANDS

No wetlands mapped

THREATENED ECOLOGICAL COMMUNITIES

Endangered (floristic community type 20a)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated uplands

Vegetation and Flora: limited survey (Gibson *et al.* 1994 (Golf 01))

Structural Units

Uplands: *Banksia attenuata* Low Woodland with scattered emergent *Eucalyptus marginata* over species-rich

Mixed Low Open Heath

Vegetation Condition: >75% Very Good, <25% Good, with areas of severe localised disturbance

Total Flora: 56 native taxa, 7 weed taxa (plot-generated list only) (estimated >50% expected flora)

Significant Flora: none recorded

Fauna: structured survey for birds (28 species), native mammals (1 species), reptiles (13 species) and amphibians (1 species) (How *et al.* 1996). Significant bird species: category 1 (1), category 3 (1) and category 4 (1)

Linkage: adjacent bushland/canopy to the east; part of Greenway 10 (Tingay, Alan & Associates 1998a)

Other Special Attributes: recommended to be declared as an A-class Nature Reserve for the protection of flora and fauna in Gibson *et al.* 1994; recommended for protection in study of City of Wanneroo (Trudgen 1996); Threatened or Poorly Reserved Plant Community (EPA 1994 GIS)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Subject to protection under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, Rarity, Scientific or evolutionary importance

Recommendation: Site with Some Existing Protection; the existing care, control and management intent of the reserve is endorsed. The purpose of the reserve should be amended to include conservation and appropriate mechanisms applied in consultation with the management body (see Table 3, Volume 1).

DECOURCEY WAY BUSHLAND, MARANGAROO

Boundary Definition: protected area/bushland boundary

SECTION 1: CADASTRAL INFORMATION

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

Bushplan Site no. 328 **Map no.** 45 **Map sheet series ref. no.** 2034-II NW
System 6 (1983): M12 part System area bushland, only bushland described

Other Names

Marangaroo Golf Course

Local Authorities (Suburb)

Shire of Wanneroo (Marangaroo, Madeley)

Area (ha): total 32.8; bushland 32.8

Zoning

MRS: Parks and Recreation, Urban, Important Regional Roads

TPS: Rural, Residential Development

Lot/Location/Reserve numbers (Purpose),

Street name

11139 Brookland Cr; 500, 12651 street not identified

Crown Reserve

Ownership Categories

Local Government, State-Government

SECTION 2: REGIONAL INFORMATION

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WETLANDS

No wetlands mapped

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Endangered (floristic community type 20a)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated uplands

Vegetation and Flora: limited survey (Gibson *et al.* 1994 (Golf 01))

Structural Units: *Banksia attenuata* Low Woodland with scattered emergent *Eucalyptus marginata* over species-rich Mixed Low Open Heath

Vegetation Condition: >75% Very Good, <25% Good, with areas of severe localised disturbance

Total Flora: 56 native taxa, 7 weeds (plot-generated list only) (estimated >50% expected flora)

Significant Flora: none recorded

Fauna: multiple and structured surveys by Western Australian Museum of Natural Science for birds (28), native mammals (1), reptiles (13) and amphibians (1) (How *et al.* 1996). Significant bird species: category 1 (1), category 3 (1) and category 4 (1)

Linkage: adjacent bushland/canopy to the east; part of proposed Greenway 11 (Tingay, Alan & Associates 1997a)

Other Special Attributes: recommended to be declared as an A-class Nature Reserve for the protection of flora and fauna in Gibson *et al.* 1994; recommended for protection in study of City of Wanneroo bushland (Trudgen 1996); Threatened or Poorly Reserved Plant Community (EPA 1994 GIS)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, Diversity, Rarity, Scientific or evolutionary importance

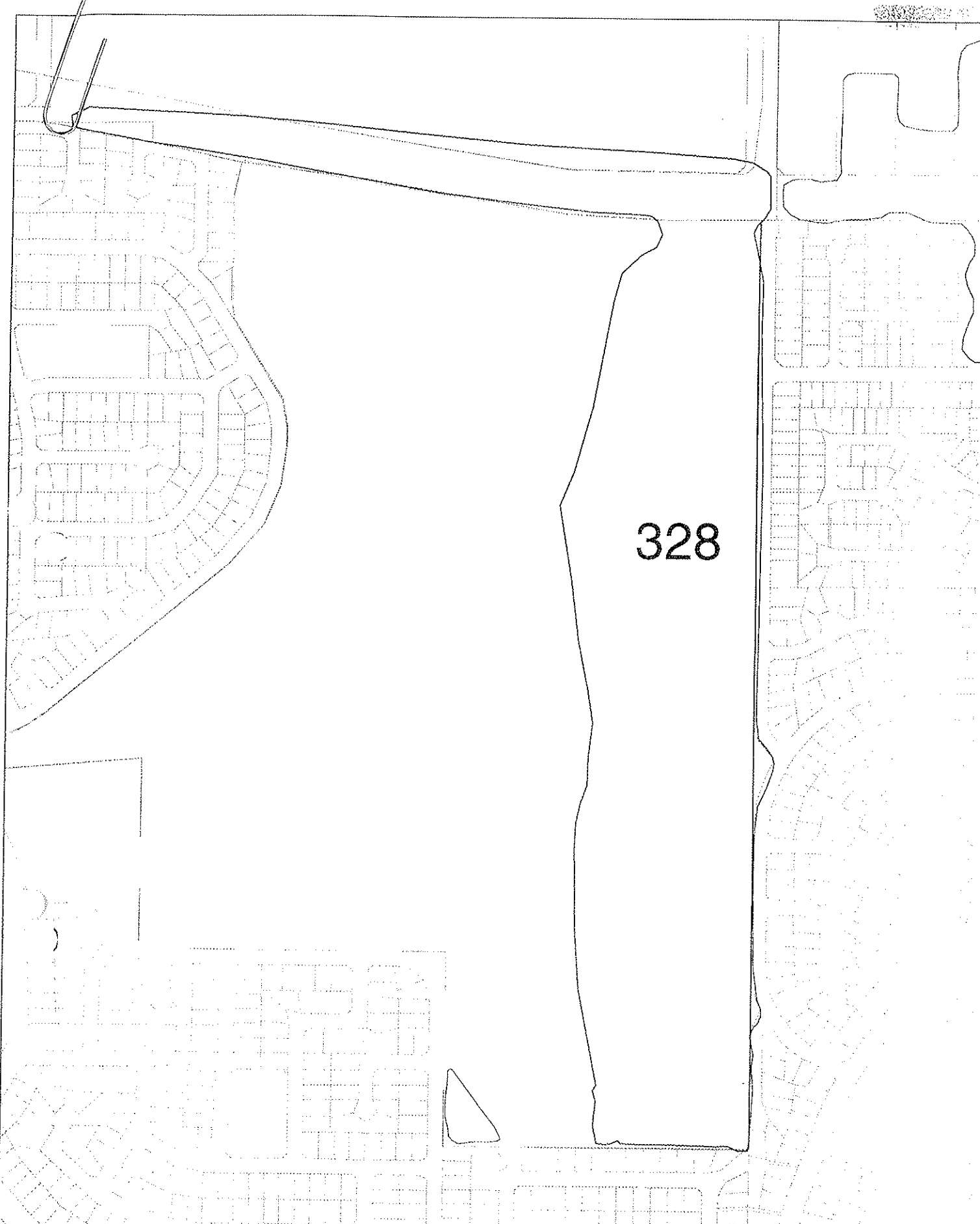
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site location of Scheduled Fauna; under MRS Parks and Recreation Reservation, Crown Reserve

Constraints: under MRS Urban Zoning, MRD regional road requirements

Recommendation: The most appropriate mechanism for the protection of this Bushplan Site be considered through the public comment period in consultation with the land owner(s). This may include — The existing care, control and management intent of the reserve is endorsed. Long-term security and support for conservation management of the Bushplan Site be enhanced by: amending the purpose of the reserve to include conservation; and applying appropriate mechanisms in consultation with the reserve management body.





328

BUSHPLAN SITES CORRECTED



**WESTERN
AUSTRALIAN
PLANNING
COMMISSION**



**CUSTOMER
FOCUS
WESTERN AUSTRALIA**

B 76 22/10/98



(COMMON?)

FOLLOW AG VEG ✓ NT/BL

40 CADASTRE
IRVE ①

NT/BL 25/9
Eastern boundary no need
to exclude road portions
road already built
part of bushland.
Follow AgWA rem veg
? follow P+R boundary
except where veg
outside

328

P+R

AGWA

AGWA

AGWA

Cult

Eastern boundary follows
P+R as excised area
wood land as shown
Northern boundary
incorporate vegetation
line including the road
P+R in road P+R areas
Dotted line

bp site 328

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

MFP INTERNAL USE ONLY

Prepared By: Andrea Zappacosta

Prepared For:

Map Ident: plot980529_1

Date: 29 May 98

Scale 1:6837

- extent of northern boundary of 1km
- assume road to be built in future?

Not all Park
boundary includes some
Urban ? time to agree to
West.

BJK 22/5/97





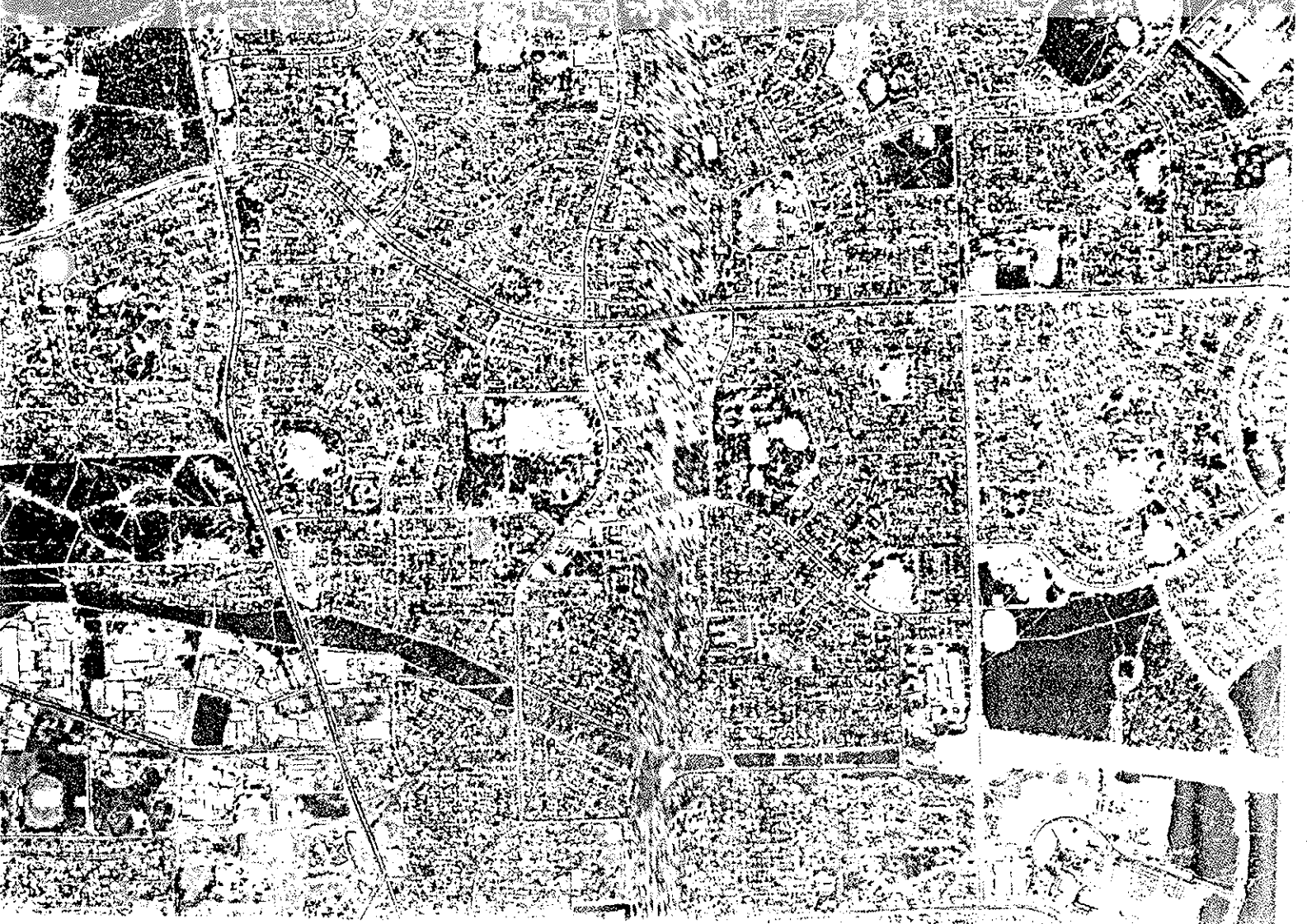
MIL RESERVE A20091,
MARANA A200

Area of NA

Common Use Area 200
- 20 833 NA

golf course remains

STUDY AREA 204 II NW
Aug 1991



01/12/92

AREA INFORMATION

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

Conservation Area
Nature Reserve
Reserve No
National Park
Reserve No
Local Government <i>M12 Marangaroo</i>
Reserve No <i>A20091</i>
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	<i>69</i>	hectares
Completely Degraded	<i>48.177 ha</i>	<i>golf course</i>
<i>many tracks, adj dieback</i>		

AREA MAPPED FLORISTIC UNITS

Units	Site (Condition)	Code	Bound	Area (ha)
<i>20a</i>	<i>φ1 (3.5)</i>		<i>B</i>	<i>20.833</i>

Boundaries determined by use of

aerial photograph	<i>Metro Perennial Area Run 10 5025 4/12/92</i>
orthophoto	<i>2034 11 NW Aug 1991</i>
vegetation map	
soil map	

CALM map Metro 3

BK MARANGAROO GOLF COURSE

Boundary Definition: management boundary, management/bushland boundary, bushland boundary, conservation wetland boundary

SECTION 1: CADASTRAL INFORMATION

Bushplan site no.: 328 **Map no.:** **Map sheet series ref. no.:**

System 6 (1983): M12 Part System area bushland, only bushland described

Some Other Commonly used Names: **Area (ha):** Total: 84.419, Bushland: 26.871

Local Authorities (Suburb)

City of Wanneroo (Marangaroo)

Zoning

MRS: Parks & Recreation, Urban, Important Regional Roads

TPS: Rural, Residential Development

Ownership Categories (Purpose)

Private Person

Multiple Ownership

Vacant Crown Land

Lot/Location numbers, Street name

103 Aylesford Dr, 53, 54 Horton Cr, 64 Addington Wy

11139 Brookland Cr, 10394 Giralt Rd

?

SECTION 2: REGIONAL INFORMATION**GEOMORPHOLOGY AND SOILS****Spearwood Dunes**

Sands derived from Tamala limestone (Qts: S7)

VEGETATION AND FLORA**Vegetation Complex****Spearwood Dunes**

Karrakatta Complex - Central and South

Floristic Community Types:

Supergroup 3 - Uplands, centred on Bassendean Dunes and the Dandaragan Plateau

20a *Banksia attenuata* woodlands over species rich dense shrublands

WETLANDS

No wetlands mapped

THREATENED COMMUNITIES

Endangered (floristic community type 20a)

SECTION 3: SPECIFIC SITE DETAILS

Landscape features: vegetated uplands

Vegetation and Flora: limited survey (Gibson et al 1994, Golf 01)

Structural units:

Banksia attenuata Low Woodland with scattered emergent *Eucalyptus marginata*.

Remnant Vegetation (canopy only): not applicable

Vegetation Condition: >75% Very Good with <25% Good with areas of severe localised disturbance

Total Flora: 56 natives, 7 weeds (site generated list only), total natives 130 (estimated, Keighery 1995-1996)

DRF/Priority and significant flora: none recorded

Fauna

No known information.

Linkage: fragmented linkage to east (Landsdale Threatened and Poorly reserved) available (?rd reserve).

Special Attributes:

- recommended to be declared as an A class Nature Reserve for the protection of flora and fauna in Gibson et al 1994
- recommended for protection in study of City of Wanneroo bushland (Trudgen 1996)
- Threatened &/or Poorly Reserved Plant Community (EPA 1994).

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: INCLUSION CRITERIA AND RECOMMENDATIONS

Criteria met for inclusion: Representation of ecological communities, Diversity, Rarity, Scientific or evolutionary importance,

Opportunities &/or Constraints: Private land, MRS Urban zoning, Mineral Lease

Recommendation:

CONTACT DR N. GIBSON CALM WOODVALE for further information:

Flora list for M12 Reserve A20091, Marangaroo

(extracted from Swan Coastal Plain database, Golf01, 14/12/95).

Department of Environmental Protection System 6 Update: Site Based Flora List for M12 Reserve A20091, Marangaroo

(extracted from the CALM Swan Coastal Plain database, Golf01, 14/12/95)

Anthericaceae

- Caesia occidentalis
- Chamaescilla corymbosa
- Thysanotus thyrsoides
- Thysanotus triandrus

Asteraceae

- * Hypochaeris glabra
- * Ursinia anthemoides

Campanulaceae

- * Wahlenbergia capensis
- Wahlenbergia preissii

Crassulaceae

- Crassula colorata
- Crassula pedicellosa

Cyperaceae

- Mesomelaena tetragona
- Schoenus subflavus
- Tetraria australiensis
- Tetraria octandra

Dasypogonaceae

- Kingia australis
- Lomandra hermaphrodita
- Lomandra sericea

Dilleniaceae

- Hibbertia hypericoides

Droseraceae

- Drosera sp. scps

Epacridaceae

- Astroloma stomarrhena

Goodeniaceae

- Goodenia caerulea

Handwritten notes:
GOLF 01
= An eastern side of plain list

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Flora list for M12 Reserve A20091, Marangaroo

(extracted from Swan Coastal Plain database, Golf01, 14/12/95).

Lechenaultia biloba

Haemodoraceae

Conostylis setigera
Haemodorum laxum
Haemodorum spicatum

Iridaceae

Patersonia babianoides
Patersonia occidentalis
Patersonia rudis

Mimosaceae

Acacia lateriticola
Acacia myrtifolia
Acacia teretifolia

Myrtaceae

Baeckea camphorosmae
Beaufortia bicolor
Calothamnus sp. scps
Eremaea pauciflora
Eucalyptus marginata subsp. elegantella
Melaleuca trichophylla

Papilionaceae

Bossiaea ornata
Daviesia decurrens
Gompholobium knightianum
Hovea trisperma
Nemcia dilatata

Pittosporaceae

Pronaya fraseri

Poaceae

* Aira caryophyllea
* Briza maxima
* Lolium rigidum
Neurachne alopecuroidea

Proteaceae

Dryandra armata
Dryandra nivea
Hakea cyclocarpa
Hakea ruscifolia
Hakea stenocarpa

GOLF

M12

CONTACT DR N. GIBSON CALM WOODVALE for further information.

Flora list for M12 Reserve A20091, Marangaroo

(extracted from Swan Coastal Plain database, Golf01, 14/12/95).

Petrophile squamata

Restionaceae

Loxocarya fasciculata

Stylidiaceae

Levenhookia pusilla

Thymelaeaceae

Pimelea sp. scps

Xanthorrhoeaceae

Xanthorrhoea acanthostachya

Xanthorrhoea gracilis

M12
GOLF

FOR INTERNAL USE ONLY from Gibson *et.al* 1994

1

CONTACT DR N. GIBSON CALM WOODVALE for further information.

Flora list for M12 Reserve A20091, Marangaroo (extracted from Swan Coastal Plain database, Golf01, 29/1/96).

Department of Environmental Protection System 6 Update: Site Based Flora List for M12 Reserve A20091, Marangaroo

(extracted from the CALM Swan Coastal Plain database, Golf01, 29/1/96)

Anthericaceae

Amocrinum preissii
Thysanotus thyrsoides
Thysanotus triandrus

Apiaceae

Trachymene pilosa

Asteraceae

* Hypochaeris glabra
Millotia tenuifolia
Podotheca chrysantha
* Ursinia anthemoides

Casuarinaceae

Allocasuarina humilis

Colchicaceae

Burchardia umbellata

Cyperaceae

Mesomelaena pseudostygia
Schoenus curvifolius

Dasypogonaceae

Dasypogon bromeliifolius
Lomandra hermaphrodita
Lomandra suaveolens

Dilleniaceae

Hibbertia crassifolia
Hibbertia huegelii
Hibbertia hypericoides

Droseraceae

Drosera erythrorhiza
Drosera menziesii

FOR INTERNAL USE ONLY from Gibson *et.al* 1994

2

CONTACT DR N. GIBSON CALM WOODVALE for further information.

Flora list for M12 Reserve A20091, Marangaroo (extracted from Swan Coastal Plain database, Golf01, 29/1/96).

Drosera paleacea scps subsp. *paleacea*

Epacridaceae

Astroloma pallidum
Conostephium preissii
Leucopogon conostephioides
Lysinema ciliatum

Goodeniaceae

Lechenaultia floribunda
Scaevola repens var. *repens*

Haemodoraceae

Conostylis aculeata
Conostylis setigera
Haemodorum laxum
Phlebocarya ciliata

Haloragaceae

Gonocarpus pithyoides

Iridaceae

* *Gladiolus caryophyllaceus*
Patersonia occidentalis

Lauraceae

Cassytha sp. scps

Loganiaceae

Mitrasacme paradoxa

Mimosaceae

Acacia huegelii

Myrtaceae

Calytrix angulata
Calytrix fraseri
Eucalyptus marginata
Hypocalymma robustum

FOR INTERNAL USE ONLY from Gibson *et.al* 1994

3

CONTACT DR N. GIBSON CALM WOODVALE for further information.

Flora list for M12 Reserve A20091, Marangaroo (extracted from Swan Coastal Plain database, Golf01, 29/1/96).

Papilionaceae

- Bossiaea eriocarpa
- Daviesia triflora
- Gompholobium tomentosum
- Hardenbergia comptoniana
- Jacksonia densiflora
- Nemcia capitata
- * Trifolium campestre
- * Trifolium sp. scps

Poaceae

- * Aira caryophyllea
- * Briza maxima
- Danthonia occidentalis

Proteaceae

- Banksia attenuata
- Banksia ilicifolia
- Petrophile linearis
- Stirlingia latifolia

Restionaceae

- Alexgeorgea nitens
- Hypolaena exsulca
- Loxocarya flexuosa
- Lyginia barbata

Stylidiaceae

- Stylidium bulbiferum
- Stylidium calcaratum
- Stylidium piliferum

56 natives

7 weeds



M12 Reserve A20091 Marangaroo

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

AHC: National Estate- Listed / Interim / Notified

National Trust: Heritage Classification

BS328

22/4

PB142



Ministry for Planning

MEMORANDUM

TO: Kieron Beardmore

FROM: Alan Kleidon

SUBJECT: SUBMISSION ON BUSHPLAN FILE NUMBER/S:

DATE: 20 April 1999

Handwritten notes:
 21/4
 [Signature]

Kieron

Please find attached a submission on Bushplan.

The submission reflects my state of knowledge at this time. It is not intended as a final statement but rather as a means of initiating further dialogue.

Yours sincerely

Alan Kleidon
Letter120

SUBMISSION NO. 1180

MPP RECORDS
 22 APR 1999
 805-2-13 20/12
 RECEIVED

225

SUBMISSION ON BUSHPLAN

Prepared By Ministry for Planning - Transport Planning Branch

20 April 1999

GENERAL ISSUES TO BE RESOLVED

A number of Bushplan sites cover areas of land that are reserved in the Metropolitan Region Scheme for regional road purposes. These regional roads are generally considered as necessary for the benefit of the community. Construction of the road would generally destroy the bushland within the reserve.

It is ironic that to date, regional road reserves have preserved bushland when the adjacent land has been cleared. Where this is the case, Bushplan implies that the WAPC should realign regional road reserves to use cleared land and thereby preserve the vegetation in the existing regional road reserve.

At this stage Bushplan gives insufficient guidance to resolve the above issue. The only guidance that is given is *"Where a future road route or other land requirement for infrastructure is at an early stage of planning, government agencies should investigate the scope for realignment or relocation."* Bushplan does not define *"an early stage of planning"*.

While road authorities may take all possible measures to protect vegetation, it is clear that roadworks require vegetation to be cleared. It is also clear that once the surrounding area is built up, there is little scope to realign to avoid vegetation.

If it is decided to realign certain regional road reserves to avoid valuable bush areas, this action should be taken in advance of urban development. This course of action would cause a considerable financial liability upon the Western Australian Planning Commission.

SITE SPECIFIC ISSUES AND EXAMPLES

Since the release of Bushplan, a number of sites where Bushplan areas conflict with regional road reserves have come to the attention of Transport Branch. Two of these sites and the practical issues related to these sites are set out below. This is simply an account of items that have come to my attention since the release of Bushplan. It is not an exhaustive list of sites where this issue occurs.

Hepburn Avenue Reserve and Bushplan Site 328

Bushplan site 328 includes a significant area of the reserve for the future construction of Hepburn Avenue.

Aerial photography clearly shows the points below:

- If Hepburn Avenue is constructed within the regional road reserve then the bushland within the reserve would be unavoidably destroyed.
- Realignment of the future to Hepburn Avenue would cause the road to encroach onto sporting facilities and previously unaffected private property.

Both of the approaches suggested in the above points are expected to be unacceptable. In view of this, I seek the Commission's view about how this and other similar situations should be resolved.

Tonkin Hwy / Reid Hwy and Bushplan Site 480

The intersection of Tonkin Highway and Reid Highway is planned as a 4 way freeway intersection requiring construction over the whole reserve set out for this intersection. Recent consultation with Main Roads WA and relevant local Government agencies indicate that a lesser ultimate standard of construction would not be supported.

Bushplan site 480 is entirely within this future construction area and would in the long term be completely destroyed.

In view of the above, Bushplan site 480 will not be preserved and therefore should not be considered in Bushplan.

CONCLUSION

There appears to be many locations in the Perth Metropolitan Region where there is a conflict between Bushplan and reserves for public infrastructure. Bushplan documentation openly acknowledges this and suggests that these situations can be resolved. It is important to resolve these situations before Bushplan is finalised. To achieve this would require detailed investigation and an informed decision about each of the locations where conflict exists.