

LAMBERT LANE BUSHLAND, WUNGONG

Boundary Definition: bushland (part taken to cadastre)/bushland group boundary (Areas of bushland within the boundaries of the Site are not accurately mapped. The boundary has been drawn to include any unmapped bushland.)

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 264

Area (ha): bushland 8.3

Map no. 67

Map sheet series ref. no. 2133-IV SW

Other Names: Submission Area 269; Location 5 (Keighery, BJ, and Trudgen 1994)

Local Authorities (Suburb): City of Armadale (Armadale; Brookdale)

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Foothills

Colluvial Deposits (Qc: Csg)

VEGETATION AND FLORA

Vegetation Complexes

Foothills

Forrestfield Complex (Ridge Hill Shelf, Darling Plateau)

Floristic Community Types

Supergroup 1: Foothills/Pinjarra Plain

3a *Eucalyptus calophylla* — *Kingia australis* woodlands on heavy soils

Supergroup 2: Seasonal Wetlands

WETLANDS

Wetland Types: palusplain, creek

Natural Wetland Groups

Pinjarra Plain

Keysbrook (P.1)

Wetland Management Objectives: Conservation (3.7ha), Resource Enhancement, Multiple Use

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Critically Endangered (floristic community type 3a)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: vegetated upland, vegetated wetland

Vegetation and Flora: limited survey (DEP 1999, Gibson *et al.* 1994 (Lamb 01-02), Keighery, BJ, and Trudgen 1992)

Structural Units: mapping (Keighery, BJ, and Trudgen 1992)

Upland: *Eucalyptus calophylla* and *E. lanepoolei* Low Open Woodland; *Eucalyptus calophylla* and *E. lanepoolei* Low Open Woodland; mixed Open Low Heath

Wetlands: not known

Vegetation Condition: >90% Excellent to Very Good, <10% Good to Degraded, with areas of severe localised disturbance

Total Flora: 107 native taxa (plot-generated list only)

Significant Flora: *Synaphea acutiloba* (3); *Lomandra spartea*, *Eucalyptus lanepoolei*

Fauna: Significant mammal species: Quenda (Friend 1996 D)

Linkage: no adjacent bushland; part of Greenways 106, 128 (Tingay, Alan & Associates 1998a)

Other Special Attributes: Threatened or Poorly Reserved Plant Community (EPA 1994 GIS); recommended to be managed as a flora conservation area (Keighery, BJ, and Trudgen 1992); contains plant communities representative of the eastern side of the Swan Coastal Plain; part Site Category One Middle Canning Catchment Study (Evangelisti & Associates *et al.* 1995)

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, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation.

Recommendation: Proposed Parks and Recreation Reservation (see Table 3, Volume 1).

LAMBERT LANE BUSHLAND, WUNGONG

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SECTION 1: CADASTRAL INFORMATION

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

Bushplan Site no. 264	Map no. 77	Map sheet series ref. no. 2133-IV SW
Other Names Submission Area 269; Location 5 (Keighery, BJ, and Trudgen 1994)		Area (ha): total 15.1; bushland 8.3
Local Authorities (Suburb) City of Armadale (Armadale, Brookdale)	Zoning MRS: Rural TPS: Landscape, Parks and Recreation, Public Purposes, Rural	
Ownership Categories Local Government	Lot/Location/Reserve numbers (Purpose), Street name 106 Stone St; 49, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97 Wilson St; 98 Lambert L Crown Reserve	

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

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VEGETATION AND FLORA

Vegetation Complexes

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Floristic Community Types

Supergroup 1: Foothills/Pinjarra Plain

3a *Eucalyptus calophylla* — *Kingia australis* woodlands on heavy soils

Supergroup 2: Seasonal Wetlands

WETLANDS

Wetland Types: palusplain, creek

Natural Wetland Groups

Pinjarra Plain

Keysbrook (P.1)

Wetland Management Objectives: Conservation (11.8ha), Resource Enhancement, Multiple Use

Swan Coastal Plain Lakes EPP: none identified

THREATENED ECOLOGICAL COMMUNITIES

Critically Endangered (floristic community type 3a)

SECTION 3: SPECIFIC SITE DETAIL

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Upland: *Eucalyptus calophylla* and *E. lanepoolei* Low Open Woodland; *Eucalyptus calophylla* and *E. lanepoolei* Low Open Woodland; mixed Open Low Heath

Wetlands: no known information

Vegetation Condition: >90% Excellent to Very Good, <10% Good to Degraded, with areas of severe localised disturbance

Total Flora: 107 native taxa (plot-generated list only)

Significant Flora: *Synaphea acutiloba* (3); *Lomandra spartea*, *Eucalyptus lane-poolei*

Fauna: no systematic survey. Significant mammal species: Quenda (Friend 1996 D)

Linkage: no adjacent bushland; part of proposed Greenways 12, 144 (Tingay, Alan & Associates 1997a)



Other Special Attributes: Threatened or Poorly Reserved Plant Community (EPA 1994 GIS); recommended to be managed as a flora conservation area (Keighery, BJ, and Trudgen 1992); contains plant communities representative of the eastern side of the Swan Coastal Plain; part Bushplan Site Category One Middle Canning Catchment Study (Evangelisti & Associates *et al.* 1995)

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, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation,

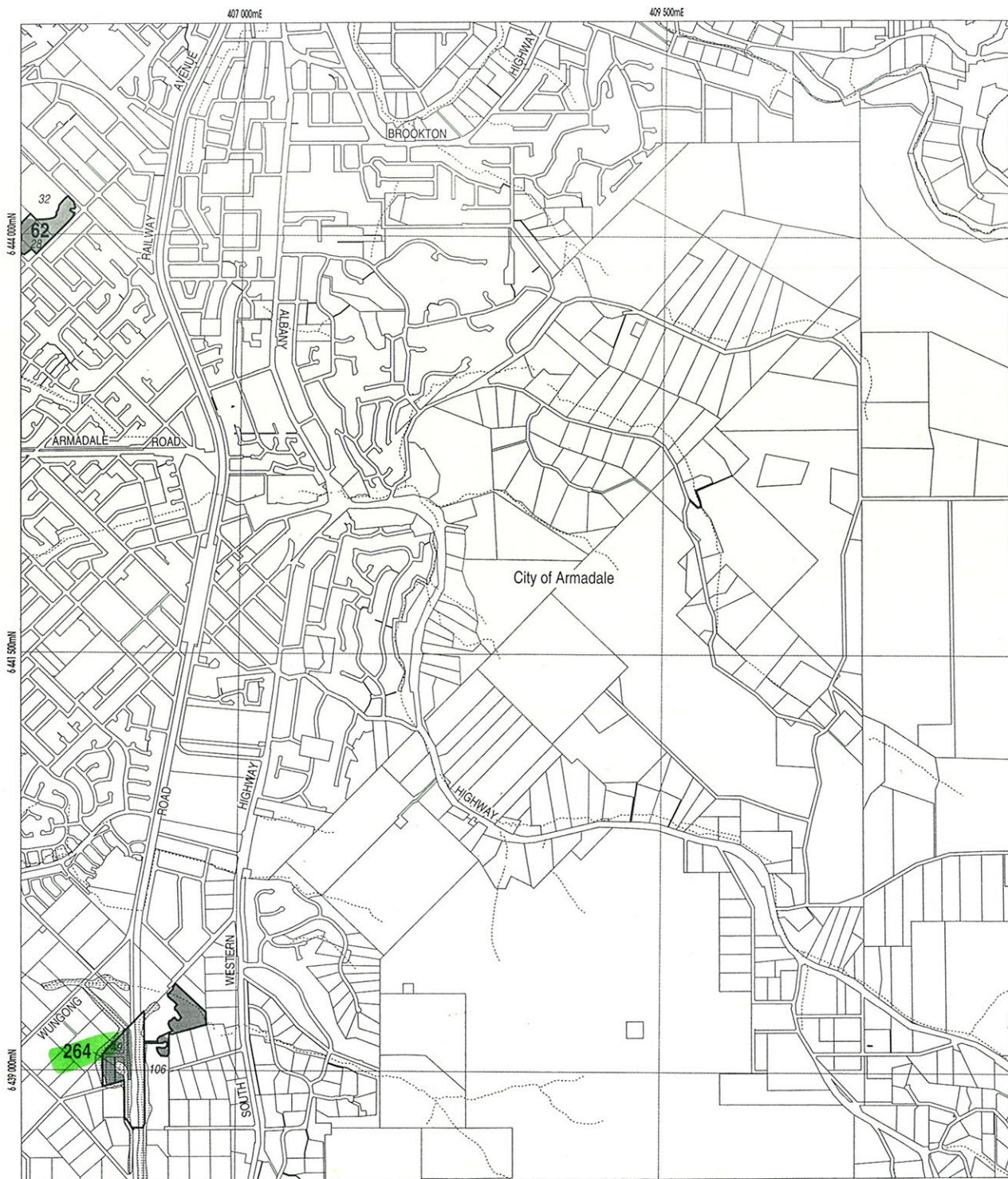
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site subject to Swan and Canning Rivers EPP; location of conservation category wetlands; under TPS Landscape Zoning and Parks and Recreation Zoning, Crown Reserve

Constraints: under General Mineral Resource Area (shale)

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 to be enhanced by: amending the purpose of the reserve to include conservation; and applying appropriate mechanisms in consultation with the reserve management body.





LEGEND

472 Bushplan Sites With Regionally Significant Bushland

Other Native Vegetation

Conservation Category Wetlands

Bushplan Sites With Some Existing Protection

696 Lot Number, Location Number

Channel Wetlands

Local Government Boundary

2133 - IV SW

NW	NE	
IV		I
SW	SE	
2133		
III	II	

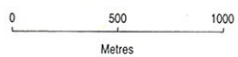
1 : 25 000 AMG Reference Grid showing Perth's Bushplan Map Sheet Breakdown

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
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100
101	102
103	104
105	106



SCALE



Produced by Project Mapping Section
 Land Information Branch, Ministry for
 Planning, Perth W.A. November 1998
 ntw-map9/environ/bushplan/bushv2_77.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

264

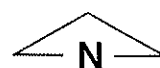
BUSHPLAN SITES CORRECTED



WESTERN
AUSTRALIAN
PLANNING
COMMISSION



B BK 27/10/98.





264

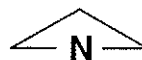
BUSHPLAN SITES CORRECTED



WESTERN
AUSTRALIAN
PLANNING
COMMISSION



*BJK 24/8
See v03
connections*



CITY OF ARMADALE

Office: 7 Orchard Ave, Armadale, WA 6112, Locked Bag No.2, Armadale, WA 6992
Phone: (08) 9399 0111 Fax: (08) 9399 0184



City Living
Country Style

BS264

PB088

Cur Ref: PSC/27 JR
Enquiries: James Robinson

9 April, 1999

PERTH'S BUSHPLAN
MINISTRY FOR PLANNING
ALBERT FACEY HOUSE
469 WELLINGTON ST
PERTH WA 6000

Dear Sir

COMMENTS ON PERTH BUSHPLAN

The Draft Perth Bushplan was received by Council on 15th February 1999.

This submission details Council's response, provides information regarding specific Bushplan sites and comments on matters that should be taken into account in Bushplan's general recommendations.

Council's response

In response to Perth's Bushplan Council resolved that:

- Properties identified in Perth's draft Bushplan be identified in Council's constraints plan in order to trigger appropriate referral in the event of development proposals being received.
- Council's Environmental Officer and Technical Services Directorate be advised of the Bushplan sites with a view to taking the recommendations into account in their respective works programs; and
- That consultants Hames Sharley preparing the new Town Planning Scheme be advised of the Bushplan sites.

Information regarding specific Bushplan sites

The following matters are identified to be taken into account in the revision and finalisation of Bushplan.

Site 26 Map 70 - Lot 22 Clifton St Kelmscott

The Ministry is advised that lot 22 Clifton Street which is owned by the City is currently subject to negotiations for sale to a private party. A proposal for an Aged Care hostel is also fairly well advanced in the application process, having received support in principle from Council for the purpose of advertising for public comment as a "Use Not Listed" under Town Planning Scheme No 2. This process has included referral of the proposal to the DEP, SRT and WAPC.

Site 264 Map 77

The Ministry is advised that Reserve 14217 which is vested in the City is currently leased to the Wallangara Pony Club.

SLIP/10/10/10
467

14 APR 1999
805-2-1-32PT12
FILE

LAMBERT INTERIM PROTECTION AREA

extracted from Keighery, B.J. and Trudgen, M. (1992) Remnant Vegetation on the Alluvial Soils of the Eastern Side of the Swan Coastal Plain

Location 5 - Lambert Lane. Location Map 11. Vegetation Map Area 3, p 84.

Veg: ml LW Cond: Very Good to Good with patches Completely Degraded

GENERAL COMMENTS

Much of the Marri and *Eucalyptus lanepolei* Low Woodland to the west of the railway line is in Very Good to Good Condition with Completely Degraded patches. The degradation is the result of too many tracks, rubbish dumping and gravel mining. The completely degraded areas are invaded by: **Cytisus proliferus* (Tagasaste) **Leptospermum laevigatum*, **Eragrostis curvula*, **Rhynchelytrum repens* (Natal Red Top), **Babiana disticha*, **Oxalis pes-caprae*, **Pennisetum* sp and **Pennisetum clandestinum* (Kikuyu).

To the east of the line there are patches in Good Condition but the vegetation is generally in Poor to Completely Degraded Condition. Remnant

Eucalyptus lanepolei occurs to the South Western Hwy and into the Caravan Park to the east of the Hwy. The same vegetation type extends along the Railway, east and west of the line gradually changing to Marri Woodland. Vegetation along the line to Moore St both sides and Eleventh Rd on the east has patches in Good Condition but the condition is generally Poor as disturbance has led to invasions by **Eragrostis* and **Watsonia*.

This small area of bushland, approx 4 hectares, to the west of the railway line in Very Good Condition was identified by this study as an important conservation area and is being surveyed in detail in the Swan Coastal Plain Survey. A separate publication on the vegetation and floristics of this Location will be prepared as part of the Swan Coastal Plain Survey.

Site 5a

**ml LW Marri and *Eucalyptus lanepolei* Low Open Woodland over
Kingia australis and *Hakea trifurcata* Open Shrubland over Low
Shrubland over Open Herbland over Open Sedgeland**

Comments: *Eucalyptus lanepolei* (in clumps from one lignotuber) scattered clumps *Kingia australis* and *Hakea trifurcata*

Trees: *Eucalyptus calophylla*, 3, 4#*E. lanepolei*, *Nuytsia floribunda*

Shrubs: 4#*Kingia australis*, 4#*Hakea trifurcata*, *Xanthorrhoea preissii*, *Hakea ruscifolia*, 4#*Hakea auriculata*, 4#*Chorizema dicksonii*, *Daviesia decurrens*, *Calectasia cyanea*, +4#*Acacia drewiana*, 4#*Acacia teretifolia*, *Allocasuarina humilis*, *Petrophile striata*, *Dryandra sessilis*, *Andersonia lehmanniana*, *Hibbertia hypericoides*, 4#*Dryandra armata*, *Hakea incrassata*, 4#*Grevillea wilsonii*, 4#*Synaphea petiolaris*, *Hibbertia aurea*, *Nemcia capitatum*, 4#*Templetonia biloba*, 4#*Baeckea camphorosmae*, *Daviesia* sp

Grass: *Amphipogon turbinatus*.

Herbs: *Laxmannia squarrosa*, *Lomandra spartea*, *Borya* sp., *Drosera* sp, *Lechenaultia biloba*, *Stylidium brunonianum*, *Conostylis setigera*, *Thysanotus triandrus*, *Stylidium repens*, +4#*Conostylis caricina*, *Haemodorum laxum*, *H. paniculatum*, 3#*Gonocarpus pithyoides*

Sedges: 4#*Mesomelaena tetragona*, 3#*Mesomelaena stygia*, *Loxocarya fasciculata*, *Anarthria ?gracilis*, 5#*Cyathochaeta avenacea*,

CONDITION

Rating: **Very Good**

Comments: The presence of an intact dense shrub stratum on heavy soils has probably helped maintain the condition of the site.

Aerial Photograph: Run 13 5171

Soil: sandy loam over gravelly clay, P1e (Van Gool 1990)

Drainage: moderate

Aspect: Slight slope, west

Site 5b

ml W

Marri and *Eucalyptus lanepolei* Low Open Woodland over Low Shrubland

Trees: *Eucalyptus calophylla*, 3#, 4# *E. lanepolei*, *Nuytsia floribunda*

Shrubs: 4# *Hakea trifurcata*, *Xanthorrhoea preissii*, *Allocasuarina humilis*, *Acacia pulchella*, 4# *Acacia drewiana*, *Petrophile striata*, *Dryandra nivea*, *Hibbertia hypericoides*, 4# *Dryandra armata*, *Hakea incrassata*, 4# *Grevillea wilsonii*, *Synaphea* sp., *Daviesia triflora*
Adjacent: 4# *Kingia australis*

Herbs: Adjacent 3# *Gonocarpus pithyoides*, *Burchardia multiflora*, 4# *Tribonanthes brachypetala*, **Watsonia*

Sedges: 4# *Mesomelaena tetragona*, *Tetraria octandra*

CONDITION

Rating: **Patches Good generally Poor to Completely Degraded,**

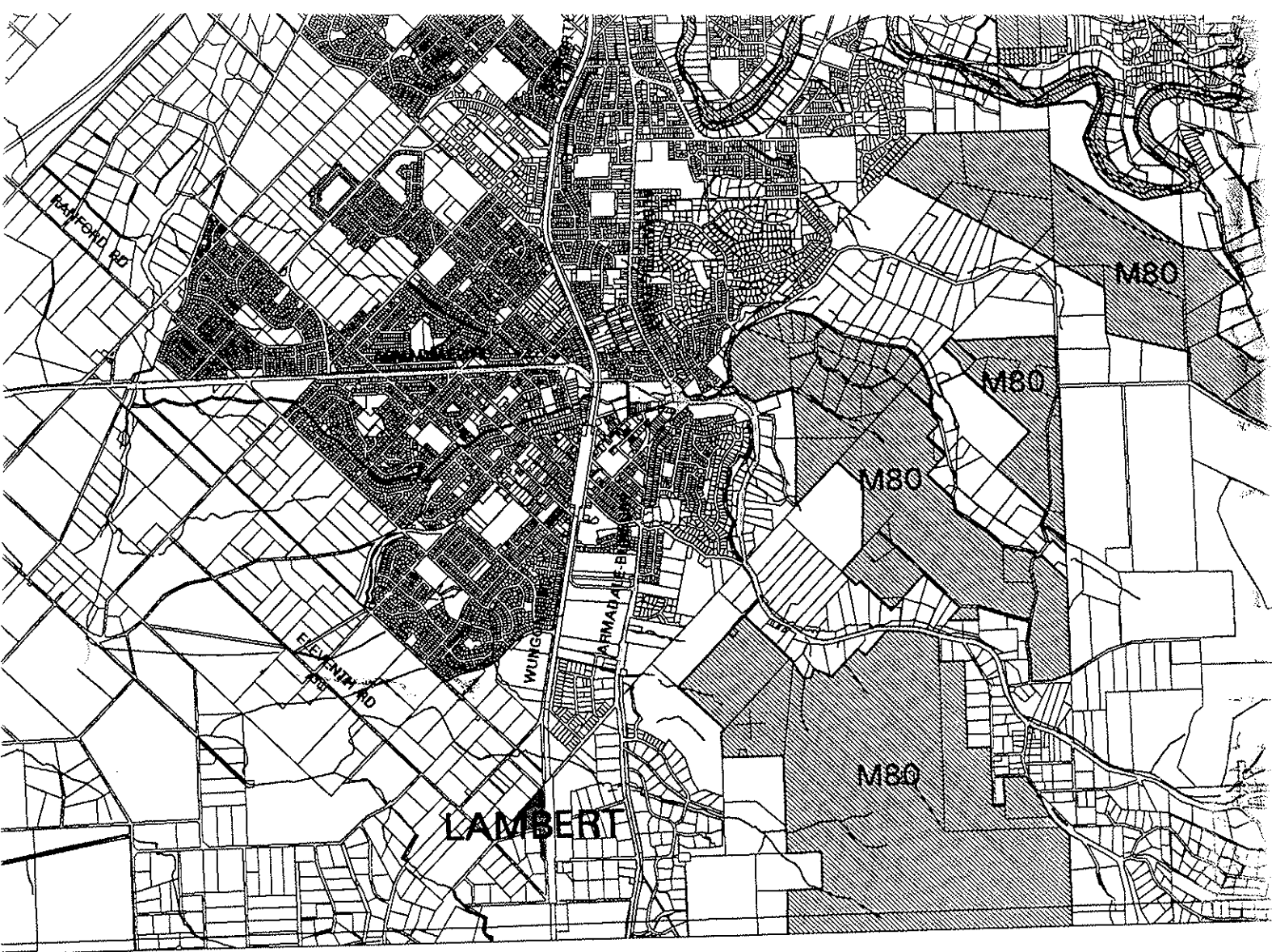
Comments: The presence of an intact dense shrub stratum on heavy soils has probably helped maintain the condition of the site.

Aerial Photograph: Run 13 5171

Soil: dark brown sandy loam over gravelly clay, P1e (Van Gool 1990)

Drainage: moderate

Aspect: flat



116.025

SYSTEM SIX RESERVE RECOMMENDATIONS
Digital data provided by the Department of
Environmental Protection.

Digital Cadastre data supplied by the
Department of Land Administration, Perth
Western Australia.

CHANNEL WETLANDS
Information provided by
Authority of Western Australia

Threatened or Poorly Reserved Plant Communities Requiring Interim Protection

From The Swan Coastal Plain

AREA INFORMATION

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

Conservation Area
Nature Reserve
Reserve No
National Park
Reserve No
Local Government
Reserve No
Other
Proposed Conservation Areas
Local Government
Reserve No 42044 'Government requirements'
Other DOLA

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

Units	Site (Condition)	Code G : LAMB	Bound	Area (ha)
3a	01 (1.5)	02 (1.5)		

Boundaries determined by use of

aerial photograph
orthophoto
vegetation map
soil map

Metro map 7

CONTACT DR N. GIBSON CALM WOODVALE for further information.

Flora list for Lambert (extracted from Swan Coastal Plain database, Lamb01-02, 107 taxa, 25/5/1995).

Department of Environmental Protection System 6 Update: Site Based Flora List for Lambert

(extracted from the CALM Swan Coastal Plain database, Lamb01-02, 107 taxa, 25/5/95)

Anthericaceae

- Borya scirpoidea
- Caesia micrantha
- Chamaescilla versicolor
- Thysanotus thyrsoides
- Thysanotus triandrus

Apiaceae

- Actinotus leucocephalus
- Hydrocotyle alata
- Hydrocotyle pilifera

Asteraceae

- Hyalosperma cotula
- Millotia myosotidifolia
- Olearia paucidentata
- Siloxerus humifusus
- * Ursinia anthemoides
- Waitzia paniculata

Campanulaceae

- Wahlenbergia preissii

Casuarinaceae

- Allocasuarina humilis

Centrolepidaceae

- Centrolepis aristata

Colchicaceae

- Burchardia umbellata

Cyperaceae

- Cyathochaeta avenacea
- Lepidosperma eastern terete scps (BJK&NG 232)
- Mesomelaena stygia
- Mesomelaena tetragona
- Schoenus nanus
- Schoenus subflavus
- Tetraria octandra

Dasypogonaceae

- Calectasia grandiflora
- Dasypogon bromeliifolius
- Kingia australis
- Lomandra hermaphrodita
- Lomandra odora
- Lomandra preissii
- Lomandra spartea

Dilleniaceae

- Hibbertia acerosa
- Hibbertia hypericoides

Droseraceae

- Drosera glanduligera
- Drosera heterophylla
- Drosera macrantha
- Drosera menziesii
- Drosera stolonifera

Epacridaceae

- Andersonia lehmanniana
- Astroloma pallidum

Euphorbiaceae

- Poranthera microphylla

Goodeniaceae

- Dampiera linearis
- Goodenia caerulea
- Goodenia micrantha
- Lechenaultia biloba

Haemodoraceae

- Anigozanthos humilis
- Conostylis caricina
- Conostylis setigera
- Haemodorum laxum

Iridaceae

- * Babiana disticha
- * Romulea rosea
- * Watsonia bulbifera

Lauraceae

- Cassytha pubescens scps
- Cassytha racemosa

Loranthaceae

- Nuytsia floribunda

Mimosaceae

- Acacia drewiana
- Acacia teretifolia

Myrtaceae

- Baeckea camphorosmae
- Beaufortia macrostemon
- Eucalyptus calophylla
- Eucalyptus lanepoolei
- Eucalyptus marginata
- Verticordia densiflora
- Verticordia pennigera

Orchidaceae

- Caladenia longicauda
- Caladenia sericea
- * Monadenia bracteata
- Prasophyllum drummondii

Prasophyllum parvifolium
Thelymitra crinita
Thelymitra nuda

Papilionaceae

Daviesia decurrens
Gompholobium marginatum
Nemcia capitata
Sphaerolobium vimineum
Templetonia biloba

Poaceae

* Aira cupaniana
* Briza maxima
Neurachne alopecuroidea

Portulacaceae

Calandrinia granulifera

Proteaceae

Dryandra armata
Dryandra nivea
Grevillea pilulifera
Grevillea wilsonii
Hakea auriculata
Hakea ceratophylla
Hakea incrassata
Hakea ruscifolia
Hakea trifurcata
Petrophile striata
Synaphea ? gracillima x acutiloba scps
Synaphea acutiloba
Synaphea aff. petiolaris scps
Synaphea gracillima
Synaphea petiolaris

Restionaceae

Anarthria gracilis
Loxocarya fasciculata

Rubiaceae

Opercularia vaginata

Rutaceae

Eriostemon spicatus

Stylidiaceae

Levenhookia pusilla
Stylidium brunonianum
Stylidium calcaratum
Stylidium petiolare
Stylidium repens

Violaceae

Hybanthus floribundus

Xanthorrhoeaceae

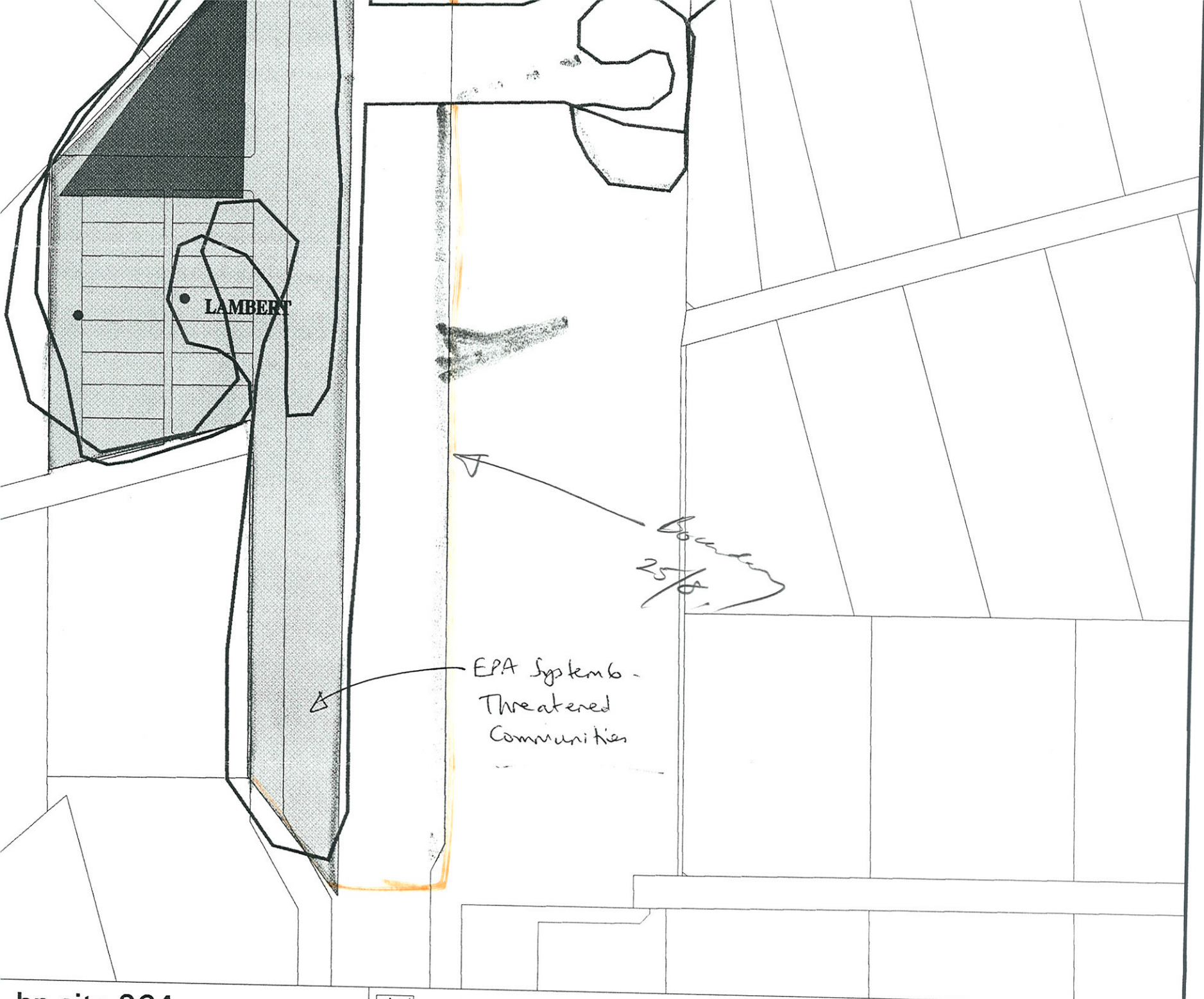
FOR INTERNAL USE ONLY from Gibson *et.al* 1994

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Flora list for Lambert (extracted from Swan Coastal Plain database, Lamb01-02, 107 taxa, 25/5/1995).

Xanthorrhoea preissii







LAMBERT

EPA System 6 -
Threatened
Communities

Boundary
25/8

bp site 264

-  Cadastre
-  Bushplan sites refno 1-500 SCP BOUNDARY THEME
-  AG VEG 1998 BOUNDARY THEME
-  Identified Sites CALM Threatened Flora Communities

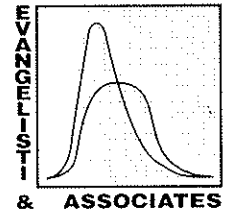
cliff boundary
as shown on
except for
road verge
opp

0_1	DATE: 29 Jun 98
ppacosta	Prepared For:
	MFP INTERNAL USE ONLY

125 m

Q? EXAM OF EPA SYSTEM 6 THREATENED COMMUNITIES





WATER RESOURCES MANAGEMENT PLAN

MIDDLE CANNING CATCHMENT

(STAGE 1 - VOLUME 1)

Prepared for the

Water Authority of Western Australia

By

Evangelisti & Associates
Consulting Engineers and Project Managers

in association with

Landvision
Consultants in Urban and Environmental Planning

and

The V & C Semeniuk Research Group
Environmental Scientists

October 1995

**SYSTEM 6 BUSHLAND SUBMISSION FORM
FOR CONSIDERATION IN THE UPDATE PROGRAMME**

If you wish to submit more than one area for consideration in the System 6 update, please use a separate form for each area.

Please fill in each section giving as much information as possible.

LOCATION, OWNERSHIP AND ZONING OF THE AREA

1. Location

Please give as accurate and detailed a description as possible of the site location
Please include either a hand drawn or copied map showing the area of the area

- a) Bordering Roads:
- b) Nearest Corner:
- c) Lot Number: Street Number:
- d) Town/Suburb/Location:
- e) Local Council:
- f) Site Name (if any):
- g) Approximate size of the area (ha):
- h) Please locate the area on a map and give us map references if possible:
.....
- i) Map: Streetsmart /UBD/Other:
- j) Map no.:
- k) Grid Ref:
- l) Please give any other information that may help us to find the location:
.....
- m) Are you aware of any development proposals that are likely to affect the area?
.....
.....

NOTE: Areas that have already been given development APPROVAL should not be nominated

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LOCATION, OWNERSHIP AND ZONING OF THE AREA

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Please give as accurate and detailed a description as possible of the site location

Please include either a hand drawn or copied map showing the area of the area

a) Bordering Roads: Lambert - Wilson

b) Nearest Corner: " "

c) Lot Number: ? Street Number:

d) Town/Suburb/Location: Wungong

e) Local Council: Armadale

f) Site Name (if any): Wungong (Fletcher Park)?

g) Approximate size of the area (ha): 4 ha

h) Please locate the area on a map and give us map references if possible: Map attached

i) Map: Streetsmart / UBD / Other:

j) Map no.: 126

k) Grid Ref: C x 2-3

l) Please give any other information that may help us to find the location:

m) Are you aware of any development proposals that are likely to affect the area? No

NOTE: Areas that have already been given development APPROVAL should not be nominated

Please fill out those questions that you can answer

2. Who owns the area? (If owned by the person/s making the nomination please indicate)

? Armadale Shire?

3. If you own the area, and may be interested in participating in conservation on private land initiatives please indicate (and leave your name and address at the end of this submission form)

4 .What is the area zoned? (please indicate whether zoning is Town Planning Scheme or Metropolitan Region Scheme)

CAN YOU TELL US A LITTLE ABOUT THE PHYSICAL CHARACTERISTICS OF THE AREA

5. Why do you consider this area important? (Refer to Guiding Issues paper),

Botanically rich - especially for remnant vegetation on East side of Swan Coastal Plain

6. What is/are the soil type/s and colours ?

Type: Sand/Clay/Gravel/Loam/Silt

Colour: White/Grey/Brown/Orange/Yellow/Red/Black

7. Does the area have any special features such as unusual landforms / landscapes that still retain their natural vegetation? (Yes/No)

If yes, what are they? Lovell groups of the Eucalyptus gum - (Eucalyptus lanepoolaei) an unusual gum on foothill

8. Is the area a wetland or does it include a wetland? No.

If yes, what kind of a wetlands is it?

- a) lake
- b) river
- c) stream
- d) swamp
- e) estuary
- f) seasonally wet
- g) other

9. What percentage of the wetland is open water in summer?

CAN YOU TELL US A LITTLE ABOUT THE VEGETATION /FAUNA ON THE NOMINATED AREA.

10. What percentage of the area is indigenous vegetation? 90% ?

11. If the area includes regions cleared of native bushland please indicate reasons for the inclusion.

12. Has any previous flora or fauna survey work been done on the area?

..... yes.....

If yes, please give details of the work..... "Keighery and Trudgeon"
"Remnant vegetation on the Alluvial soils of the
Eastern side of the Swan Coastal Plain"
(unpublished report)

13. How would you rate the condition of the native bushland? (see attached table)

- a) pristine
- b) excellent
- c) very good
- d) good
- e) degraded
- f) completely degraded
- g) don't know

14. Please indicate the disturbances affecting the area and where appropriate the percentage of the area disturbed.

- a) Partial clearing
- b) fragmentation
- c) Selective removal of species: timber cutting, wildflower picking, mowing dieback and other plant diseases
- d) Fire regime, including intensity, season and frequency A small fire Next Last
- e) 'Enrichment plantings' that is plantings of species not found in that community Summer.
- f) Weed invasion
- g) Animal impact: horses, foxes, rabbits, cats, dogs, camels, goats etc
- h) Soil movement, both removal and dumping
- i) Changes in water regimes; flooding, drainage and watering
- j) Salinity
- k) Fertiliser drift and along waterways nutrient influx
- l) Mining, including that for road works Small area of gravel extraction

m) Grazing: stock, overgrazing by feral or native mammals

(h) Proliferation of tracks, fire breaks and walk trails

(o) Off-road vehicle use

p) Use as service corridors by the SEC, Main Roads, Water Authority.

(Source: B Keighery. Bushland Plant Survey, September 1994)

15. Does the area contain any plant species of special interest that you know of?
(eg. declared rare flora, priority taxa, outlier populations) *yes*

Do you know what they are? *Eucalyptus Lane-poolei*
(I suspect many other species)

16. Do you know of any native animals that use the area?

Can you list those you know of? (birds, mammals, reptiles, amphibians etc)

I can provide a bird list.

17. Is the area used by any native animals of special interest? (eg. endangered species, large/important populations).....

If yes, please name them and indicate source of information

.....
.....

CAN YOU TELL US A LITTLE ABOUT THE SURROUNDING AREA

18. Are there any bushland areas (including wetlands) near to this area?

yes

If yes, how close are they? *adjacent. East side of*
Railway line. (Fletcher Park)

Are they already conservation reserves? *I dont think so.*

What is their approximate size? *12 ha +*

19. Does the submitted area link other bushland areas? *yes (by road verge)*
& railway line verge.

Please attach any additional information about the area which may be of use when assessing it.

Table 2: Vegetation Condition Scale

Modified from Trudgen 1991 by B. J. Keighery for the Swan Coastal Plain Survey 1993.

1 = 'Pristine'

Pristine or nearly so, no obvious signs disturbance.

2 = Excellent

Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species

For example damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.

3 = Very Good

Vegetation structure altered, obvious signs of disturbance.

For example disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.

4 = Good

Vegetation structure significantly altered by very obvious signs of multiple disturbance.

Retains basic vegetation structure or ability to regenerate to it.

For example disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.

5 = Degraded

Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management.

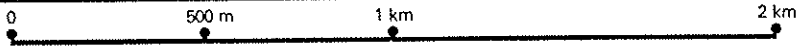
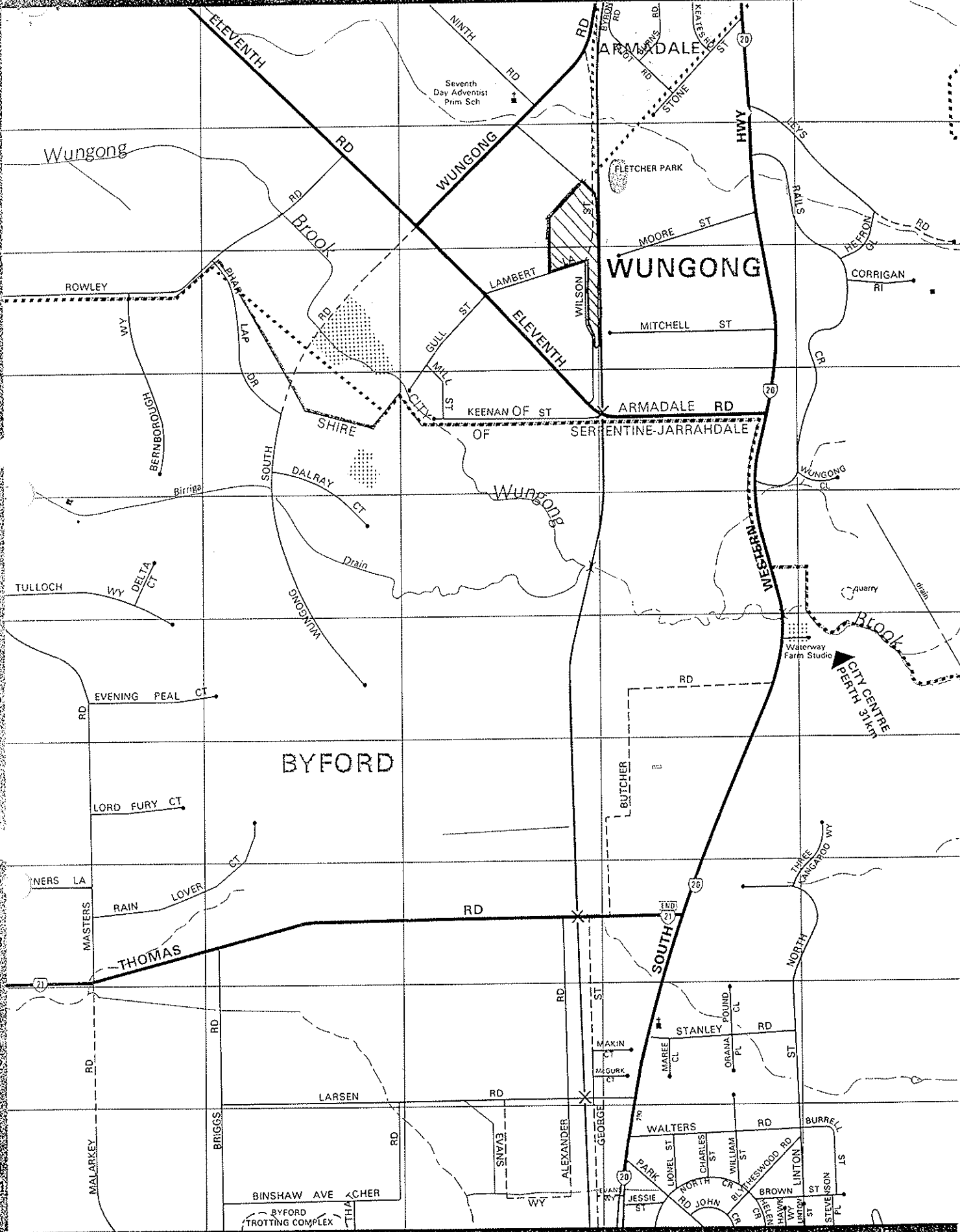
For example disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.

6 = Completely Degraded

The structure of the vegetation is no longer intact and the area is completely or almost completely without native species.

These areas are often described as 'parkland cleared' with the flora composing weed or crop species with isolated native trees or shrubs.

Source: B Keighery. Bushland Plant Survey, September 1994



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