

ANSTEY SWAMP, KARNUP

Boundary Definition: protected area boundary

SECTION 1: LOCATION INFORMATION

Bush Forever Site no. 379

Area (ha): bushland 270.2 (Site also includes open water.)

Map no. 75, 80

Map sheet series ref. no. 2033-II SW

Other Names: Submission Area 10; part of Rockingham Lakes Regional Park

Local Authorities (Suburb): City of Rockingham (Karnup)

SECTION 2: REGIONAL INFORMATION

LANDFORMS AND SOILS

Spearwood Dunes

Sands derived from Tamala Limestone (Qts: S7)

Tamala Limestone (Qtl: LS1)

Wetlands (within the Spearwood Dunes)

Holocene Swamp Deposits (Qhw: Scp)

VEGETATION AND FLORA

Vegetation Complexes

Spearwood Dunes

Karrakatta Complex — Central and South

Cottesloe Complex — Central and South

Wetlands

Herdsmen Complex

Floristic Community Types: *not sampled, types inferred

Supergroup 2: Seasonal Wetlands

*17 *Melaleuca raphiophylla* — *Gahnia trifida* seasonal wetlands

Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes

*24 Northern Spearwood shrublands and woodlands

*25 Southern *Eucalyptus gomphocephala* — *Agonis flexuosa* woodlands

WETLANDS

Wetland Types: sumpland, dampland

Natural Wetland Groups

Spearwood Dunes

Stakehill (S.4)

Wetland Management Objectives: Conservation (216.6ha)

Swan Coastal Plain Lakes EPP: 1.1ha + 45.6ha = 46.7ha (total)

THREATENED ECOLOGICAL COMMUNITIES

Not assessed

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: limestone area, open water, vegetated wetland, vegetated uplands

Vegetation and Flora: limited survey (DEP 1998, EPA and WAWA 1990, Keighery, GJ, 1996, Semeniuk, V&C Research Group 1991b)

Structural Units: mapping (EPA and WAWA 1990, Semeniuk, V&C Research Group 1991b)

Uplands — Sands derived from Tamala Limestone: *Eucalyptus gomphocephala* Forest to Woodland; Woodlands dominated by *Banksia attenuata* with scattered emergent *Eucalyptus marginata* and *E. gomphocephala* mixed with varying proportions of *Banksia ilicifolia*, *B. grandis*, *B. menziesii* and *Allocasuarina fraseriana*

Uplands — Tamala Limestone (possibly outside Site boundary): *Eucalyptus decipiens* Open Tree Mallee; Low Heath dominated by *Melaleuca systema*, *Acacia rostellifera*, *A. cyclops* and *Allocasuarina humilis*

Wetlands: Woodlands to Forests dominated by *Eucalyptus rudis* or *E. gomphocephala*; *Melaleuca preissiana*,

Banksia littoralis and *Acacia saligna* Low Woodland; *Melaleuca raphiophylla* Low Forest dominated by

Melaleuca teretifolia or *M. viminea*; Sedgeland dominated by *Lepidosperma longitudinale*, *Typha domingensis*,

Baumea articulata, *B. juncea* or *Gahnia trifida*

Vegetation Condition: >75% Excellent to Very Good, <25% Good to Degraded, with areas of severe localised disturbance (GJ Keighery pers. comm.)

Total Flora: 200 native taxa (Keighery, GJ 1996) (estimated >60% expected flora)

Significant Flora: not surveyed

Fauna: not known

Linkage: adjacent bushland to the south (Site 395, across road) and west (across road); part of Greenways 85, 89 (Tingay, Alan & Associates 1998a); part of a regionally significant contiguous bushland/wetland linkage (Part A, Map 7)

Bush Forever Site Description (from Bush Forever Volume 2 Government of WA 2000), for the Maps see Volume I

Other Special Attributes: wetland of 'regional significance' (Semeniuk, V&C Research Group 1991b); majority of Site included in Port Kennedy and Rockingham Parks proposal (Tingay, Alan & Associates 1997)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed: Indicative place (AHC 2000 D)

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation

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

ANSTEY SWAMP, KARNUP

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. 379 **Map no.** 99 **Map sheet series ref. no.** 2033-II SW

Other Names

Submission Area 10

Local Authorities (Suburb)

City of Rockingham (Karnup)

Ownership Categories

State Government, Private

Area (ha): total 287.3 (includes open water); bushland 270.2

Zoning

MRS: Parks and Recreation, Rural

TPS: Landscape, Rural

Lot/Location/Reserve numbers (Purpose),

Street name

0, 14, 702, 890, 894, 897, 898, 901 Mandurah Rd; 17, 94, 95, 96, 97, 99, 100, 103, 1394 Fletcher Rd

Crown Reserve

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Total Flora: 200 native taxa (Keighery, GJ, 1996) (estimated >60% expected flora)

Significant Flora: not surveyed

Fauna: no known information

Linkage: adjacent bushland to the south (BS395, across road) and west; part of proposed Greenway 102 (Tingay, Alan & Associates 1997a); part of a regionally significant contiguous bushland/wetland linkage (Volume 2A, Map 8)

Other Special Attributes: wetland of 'regional significance' (Semeniuk, V&C Research Group 1991b); majority of Bushplan Site included in Port Kennedy and Rockingham Parks proposal (Tingay, Alan & Associates 1997b)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

Not listed

SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS

Criteria: Representation of ecological communities, General criteria for the protection of wetland, streamline and estuarine fringing and coastal vegetation

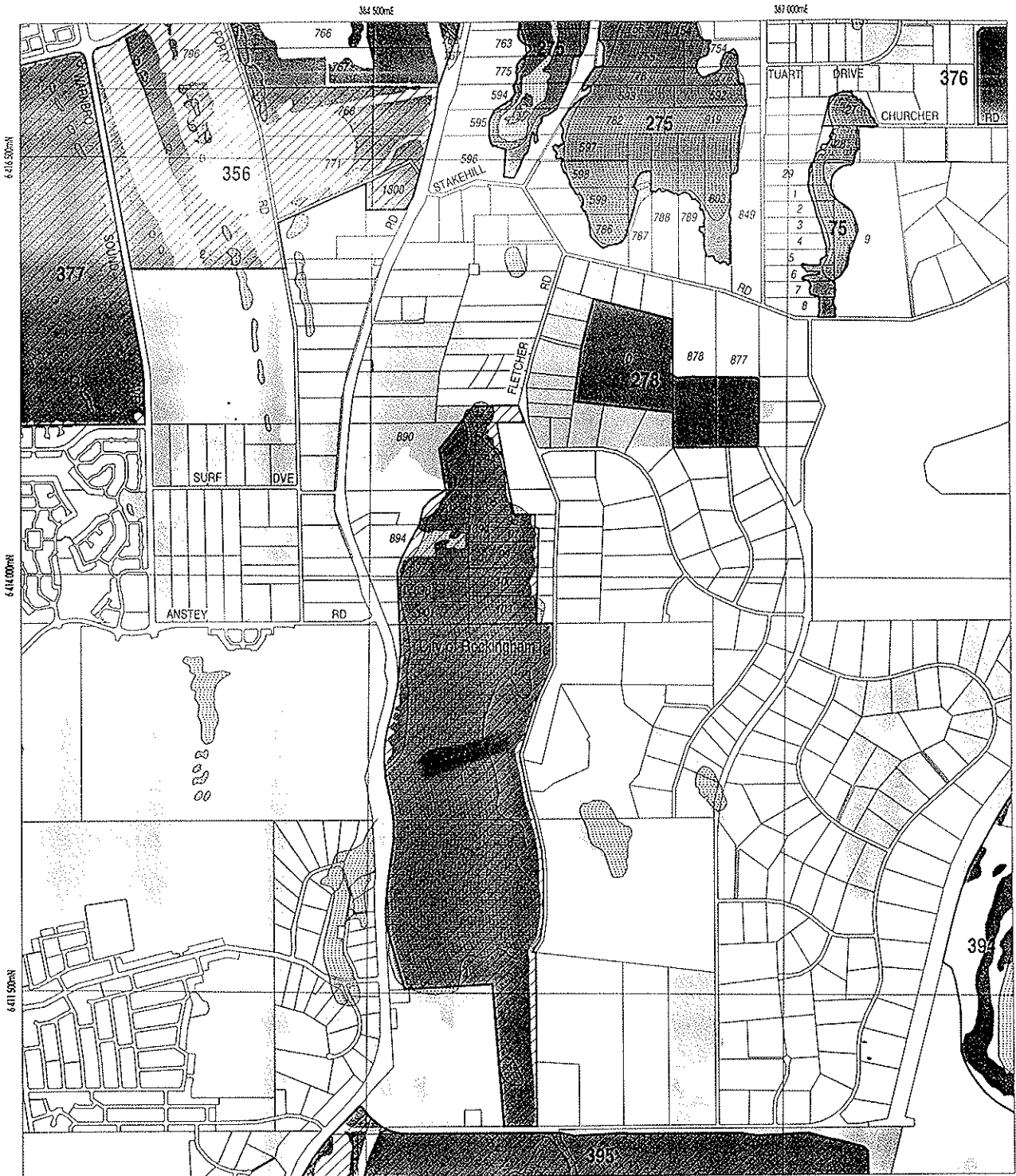
Opportunities and/or Constraints

Opportunities: Bushplan Site/part Bushplan Site subject to Swan Coastal Plain Lakes EPP; location of conservation category wetlands; under MRS Parks and Recreation Reservation and TPS Landscape Zoning, Crown Reserve

Constraints: private land; under General Mineral Resource Area (limestone)

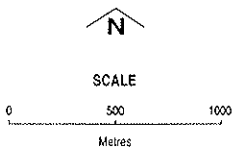
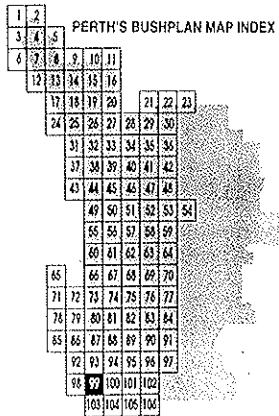
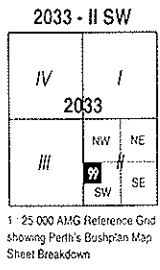
Recommendation: The care, control and management of this area for conservation purposes within Rockingham Lakes Regional Park is endorsed. The most appropriate mechanism for the protection of the remainder of this Bushplan Site be considered through the public comment period in consultation with the land owner(s).



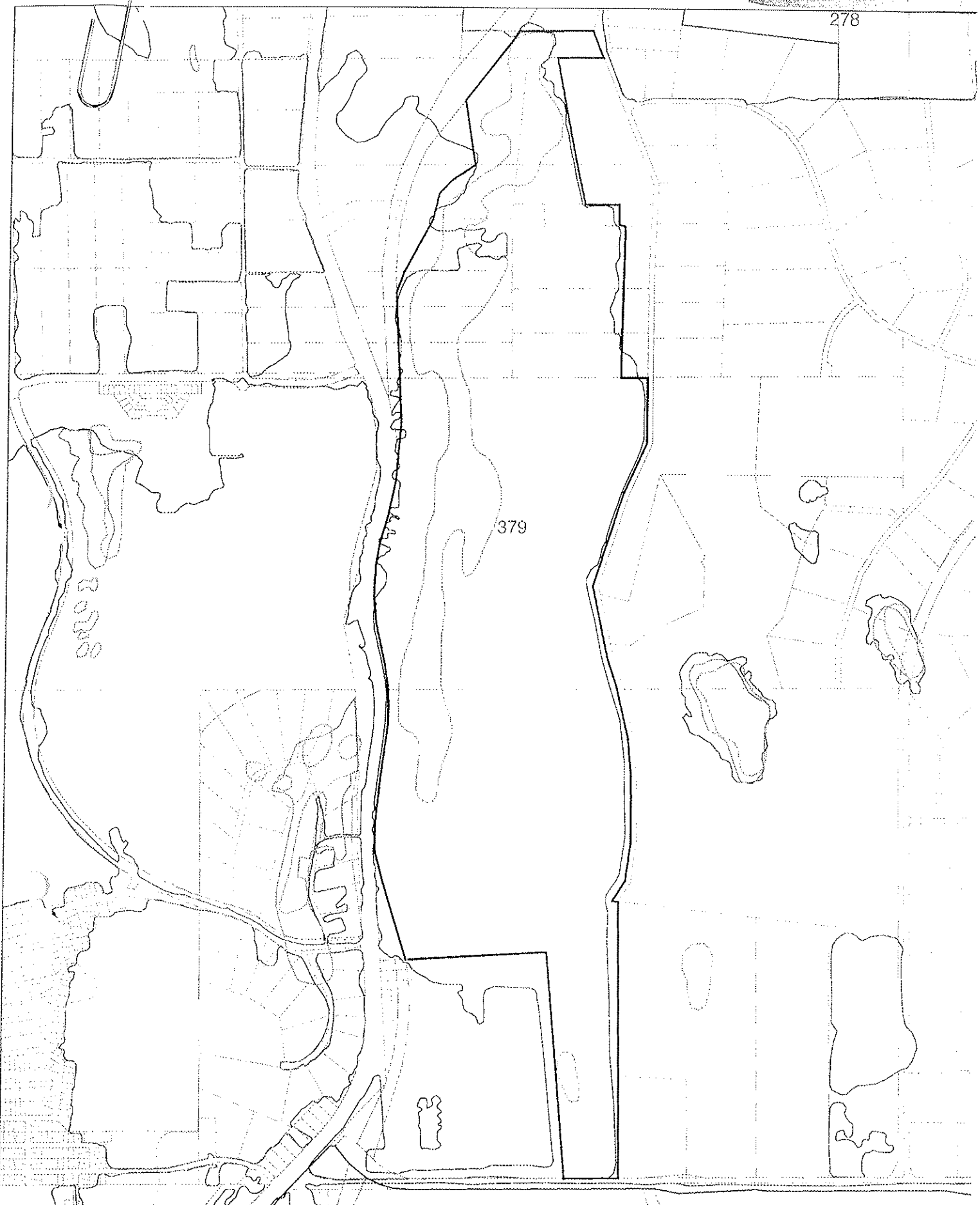


LEGEND

-  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



Produced by Project Mapping Section
Land Information Branch, Ministry for
Planning, Perth W.A. November 1998
nw-map177\envirom\busplan\buslv2_99.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



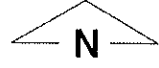
BUSHPLAN SITES CORRECTED

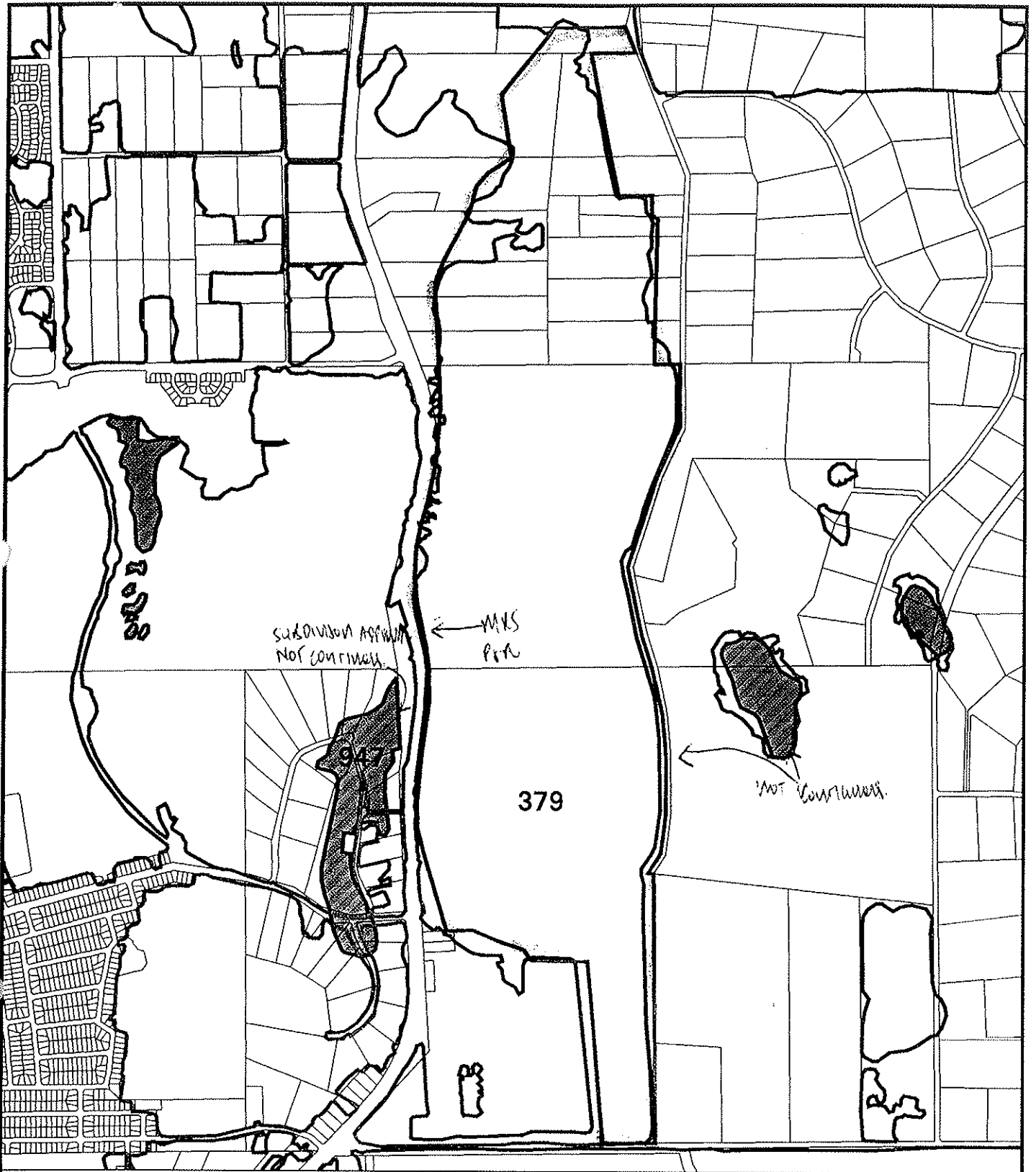


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COMMISSION








B 76 28/10/98





bp site 379

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

OK BJK 23/9

MFP INTERNAL USE ONLY

Prepared By: Andrea Zappacosta

Prepared For:

Map Ident: plot980603_1

Date: 03 Jun 98

Scale 1:21029

* Anstey Swamp, Bobdivis. Part of the proposed Rockingham Lakes Regional Park. It is owned by the MFP and is zoned for Park and Recreation. It is fully documented in the Semeniuk study and by the EPA in its original report on the Secret Harbour project.

STREETSMAP
MAP #159

Bushplan # 379
ANSTEY SWAMP

Secret
Harbour

Golden Bay



5102 WA 3165 (C) METRO REGIONAL AREA & EXT. RUN 8 (5079-5160) 1:20000 11-DEC-92 920676

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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 Amstey Swamp, Baldiuis

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: Baldiuis

e) Local Council: Rockingham

f) Site Name (if any):

g) Approximate size of the area (ha): 500ha

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

See South West Corridor Structure Plan Review Working Paper NO.3 Figures 10 + 11

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?

Widening of Mandurah Rd. Rapid Transit Route

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

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?

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?

If yes, please give details of the work *Semeniuk Studies, MFP/PER.*

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
- e) 'Enrichment plantings' that is plantings of species not found in that community
- 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



41
BS379
FB178

CITY OF ROCKINGHAM

Civic Boulevard, Rockingham
Western Australia

OUR REF: TP11-2-44 PM.mw
YOUR REF:

ENQUIRIES TO: Mr Monks

23rd April 1999

Manager
Environmental Planning Branch
Ministry for Planning
469 Wellington Street
PERTH WA 6000

MINISTRY FOR
PLANNING
27 APR 1999
805-2-1-32PH12
FILE

Dear Sir

Re: Submission on the Draft Perth's Bushplan

I refer to your letter dated the 27th November 1998 inviting comment on the draft Perth's Bushplan. The report and plans were presented to Council at its ordinary Meeting held on the 23rd March 1999, where it was resolved to submit the following comments, which are divided into four sections:-

1. Principles and Recommendations.
2. Comments on specific sites nominated in the City of Rockingham.
3. General Comments.
4. Implementation.

1. PRINCIPLES AND RECOMMENDATIONS

The retention of regionally and locally significant bushland is an important measure that has the support of the City of Rockingham, and the draft Perth Bushplan provides important information and recommendations to achieve this objective.

The methodology used to establish which sites are of regional significance is clear, once the reporting structure of the various volumes of the documents is understood.

Council has attended a number of briefing sessions organised by the Ministry for Planning and WAMA and these sessions have played a very important role in understanding both the implications of the recommendations of Perth Bushplan, and the views of the various parties that are affected by the Report.

- (xiii) Bushplan Site No. 367* Penguin, Seal, Bird and Gull Islands and Shag Rock

These sites are part of the Shoalwater Islands Marine Park and are reserved in the MRS as 'Parks and Recreation'. The sites are subject to a management strategy prepared by CALM which is responsible for protection and ongoing management.

- (xiv) Bushplan Site No. [redacted] - Doghill Road Bushland, Baldivis

This site contains significant remnant vegetation and is wholly contained within private ownership. It is appropriate that Council, the Bushplan Co-ordinator and the Ministry for Planning liaise with the landowners on a negotiated planning solution that enables the retention of the significant vegetation whilst catering for the aspirations of the affected landowners.

Council's Rural Land Strategy permits subdivision of lots in the precinct within which these lots are located, to a minimum size of 2ha, however, it is a usual part of any planning process to identify physical features worthy of preservation and this should also occur in this instance.

It should be noted that Council has received copies of submissions from two of the affected landowners. Council supports the need for all the above parties to meet to determine the future development potential of the various landholdings, after taking into account the significant on-site vegetation.

- (xv) Bushplan Site No. [redacted] - Port Kennedy

The Port Kennedy area is reserved in the MRS as 'Parks and Recreation' and is an 'A' Class Reserve for Scientific Purposes. The site is also part of the Rockingham Lakes Regional Park, for which CALM is currently preparing a Management Plan.

- (xvi) Bushplan Site No. [redacted] - Anstey Swamp, Karnup

Anstey Swamp is currently reserved 'Parks and Recreation' in the MRS. The swamp is also an EPP and Conservation status sumpland and is appropriately nominated as a Bushplan site.

- (xvii) Bushplan Site No. [redacted] - Folly Pool, Baldivis

Folly Pool is vested with the Water Corporation and as such, management responsibilities should primarily rest with this authority, in consultation with other relevant authorities, including the City. The site is a nominated EPP and Resource Enhancement status sumpland.

PORT KENNEDY Q

BS 377

ANSTEY SWAMP Q

BS 379

Proposed Port Kennedy and Rockingham Parks Management Framework

Includes the Port Kennedy Scientific Park,
Lake Richmond, Anstey Swamp, Paganoni Swamp,
Tamworth Hill Swamp, Lake Cooloongup
and Lake Walyungup

PAGANONI SWAMP Q

BS 395

LAKES COOLOONGUP + WALYUNGUP Q

BS 356



CITY OF ROCKINGHAM



WESTERN AUSTRALIAN
PLANNING COMMISSION



DEPARTMENT OF CONSERVATION
AND LAND MANAGEMENT



PORT KENNEDY
BOARD OF
MANAGEMENT

Prepared for

By

Alan Tingay
& Associates



August 1997

LAKE RICHMOND Q

BS 358

TAMWORTH HILL SWAMP Q

Q

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