

## ENTERED ON GIS

**Name:** System Six Update Programme – Flora Survey Information – Reserve 1167  
**Date:** 03/05/2006  
**Capture Author:** Thomas Leong / Ian Steward

**Comments:**

*Polygon*

Created to match documented study area with high level of accuracy

Accuracy Levels:

- High = Document contained visual and or described spatial references easily copied, resulting in little or no polygon boundary errors
- Acceptable = Document contained visual and or described spatial references with complex boundaries, resulting in minor boundary errors
- Low = Document contained little or no visual and or described spatial references, resulting in polygon boundary errors

*Attributes*

Report Info – author unclear/not listed, entered as unknown

Custodial/Contact – Captured without problems

Content – Captured without problems

### 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: ..... CAPEL .....

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:  
..... WITHIN OUTLINED AREAS .....

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?  
..... Areas are being investigated for rural  
strategy Plan. Strong pressure for subdivision .....

**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) .....  
*Norvics Landowners*

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) ..... *Rural*

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)  
..... *Some of the last remaining areas of Bonhalla woodland surrounding swamps, winter wet areas*

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? ..... *Some winter wet areas remain in virtual untouched condition. Vegetation contains *Hibiscus stolaris*, *Acacia floggeliformis*, *A. semi-trilata**

8. Is the area a wetland or does it include a wetland? *yes* ..... *Pultanea chinensis*

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? ..... *None* .....

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

10. What percentage of the area is indigenous vegetation? ..... *50%* .....

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 .....

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

- m) Grazing: stock, overgrazing by feral or native mammals
  - n) 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) ..... <sup>Yes.</sup> .....

Do you know what they are? ..... *Acacia flaggeliformis, Pultenaea shrylandii, Franklandia tridactata, orchids.* .....

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

Can you list those you know of? (birds, mammals, reptiles, amphibians etc)  
 ..... *Swarms nesting - ~~Rush~~ swamp Rush Swamp* .....

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?  
 .....

If yes, how close are they? .....

.....

.....

Are they already conservation reserves? .....

What is their approximate size? .....

19. Does the submitted area link other bushland areas? .....

.....

.....

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

The enclosed plans are from a draft Rural Strategy document.

Plans P1 & BU8 contain several areas high quality Banksia woodland and a linked wetland system. I have not seen elsewhere some of the vegetation systems so completely intact.

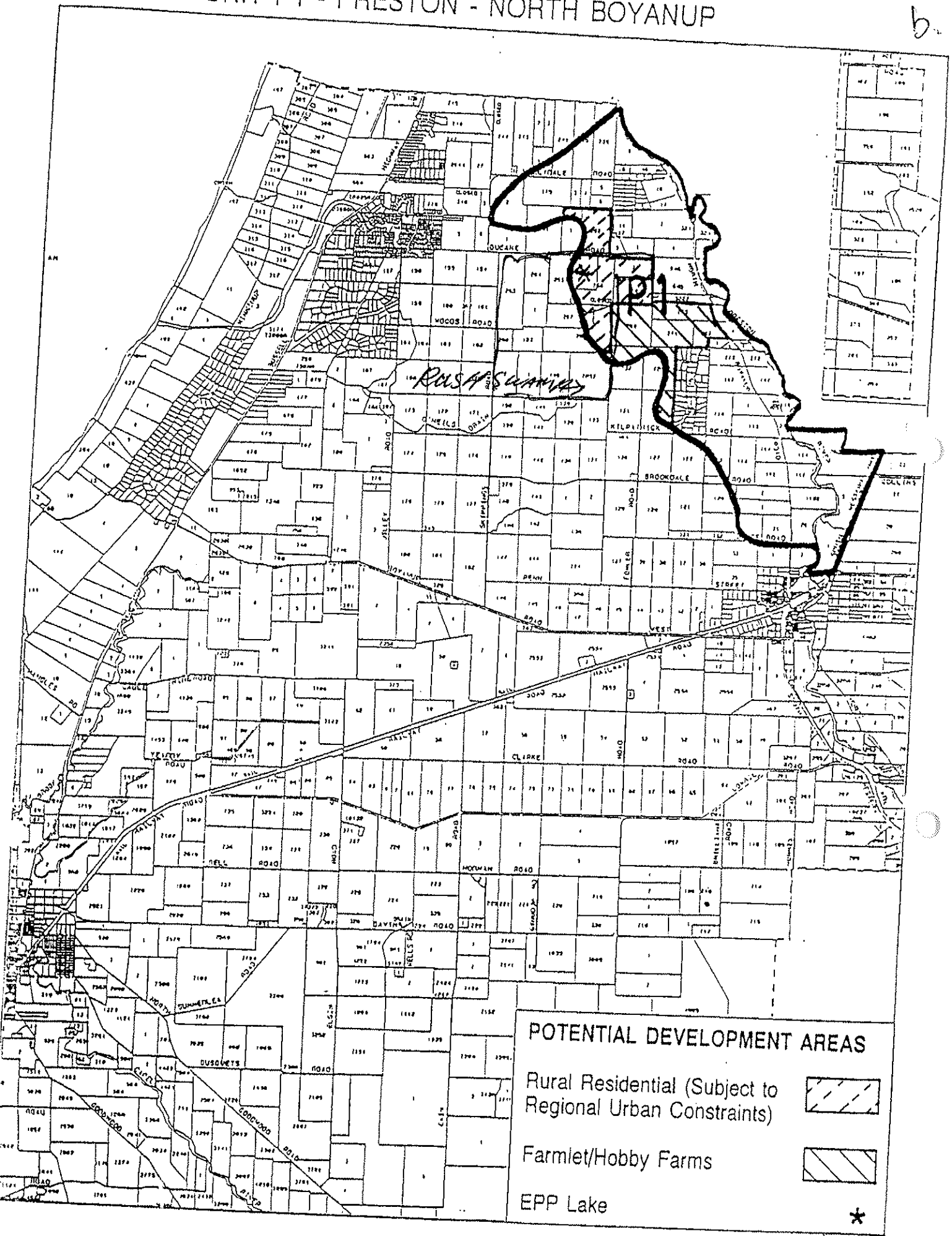
For some reason Rush Swamp which is the most important wetland is not included as a E.P.P. site.

Plan BU7 contains Muddy Lake.



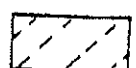
# PLANNING UNIT P1 - PRESTON - NORTH BOYANUP

b.

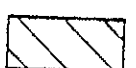


## POTENTIAL DEVELOPMENT AREAS

Rural Residential (Subject to Regional Urban Constraints)



Farmlet/Hobby Farms



EPP Lake





**Department of Environmental Protection System 6 Update: Site Based Flora List for Reserve 1167, Shire of Capel (Subm no. 34)**  
(153 taxa, R116701-03, B.J. Keighery, 11/6/96)

Anthericaceae

Agrostocrinum scabrum  
Caesia micrantha  
Sowerbaea laxiflora  
Thysanotus multiflorus  
Thysanotus sp. manglesianus/patersonii scps  
Tricoryne elatior

Apiaceae

Trachymene pilosa  
Xanthosia candida  
Xanthosia huegelii

Asteraceae

Craspedia sp. scps (Perth Flora, GJK 13121)  
\* Hypochaeris glabra  
Lagenifera huegelii  
\* Ursinia anthemoides

Casuarinaceae

Allocasuarina humilis

Colchicaceae

Burchardia congesta

Cyperaceae

Evandra pauciflora  
Isolepis marginata  
Lepidosperma squamatum  
Schoenus aff. brevifolius/breviculmis/brevisetis scps  
Schoenus curvifolius  
Schoenus rodwayanus  
Tetraria octandra

Dasyogonaceae

Dasyogon bromeliifolius  
Lomandra caespitosa  
Lomandra hermaphrodita  
Lomandra sericea  
Lomandra sonderi

Dilleniaceae

Flora  
list

Hibbertia commutata  
Hibbertia hypericoides  
Hibbertia perfoliata  
Hibbertia racemosa  
Hibbertia vaginata

Droseraceae

Drosera erythrorhiza  
Drosera paleacea  
Drosera pallida  
Drosera sp. scps

Epacridaceae

Andersonia lehmanniana  
Astroloma pallidum  
Conostephium pendulum  
Leucopogon conostephioides  
Leucopogon propinquus  
Leucopogon striatus  
Lysinema ciliatum

Euphorbiaceae

Monotaxis occidentalis  
Phyllanthus calycinus  
Poranthera microphylla

Goodeniaceae

Dampiera linearis  
Lechenaultia expansa  
Scaevola phlebopetala

Haemodoraceae

Anigozanthos manglesii  
Conostylis aculeata  
Haemodorum laxum  
Phlebocarya ciliata

Iridaceae

Orthrosanthus laxus  
Patersonia occidentalis

Lauraceae

Cassytha sp. scps

Loranthaceae

Nuytsia floribunda

Mimosaceae

Acacia extensa  
Acacia huegelii  
Acacia pulchella  
Acacia pulchella "Eagle Bay" scps  
Acacia semitrullata  
Acacia stenoptera  
Acacia willdenowiana

Myrtaceae

Agonis flexuosa  
Calytrix angulata  
Eucalyptus calophylla  
Eucalyptus marginata  
Hypocalymma angustifolium  
Kunzea ericifolia  
Melaleuca preissiana  
Melaleuca thymoides  
Pericalymma ellipticum

Orchidaceae

Caladenia flava  
Caladenia sp. scps  
Drakaea sp. scps  
Elythranthera brunonis  
Leporella fimbriata  
Lyperanthus nigricans  
Pterostylis recurva

Papilionaceae

Bossiaea eriocarpa  
Chorizema cordatum  
Daviesia physodes  
Eutaxia virgata  
Gompholobium polymorphum  
Gompholobium shuttleworthii  
Gompholobium tomentosum  
Isotropis cuneifolia  
Jacksonia sp. Busselton (G.J. Keighery 4482) PN  
Kennedia coccinea  
\* Lotus angustissimus

Poaceae

\* Briza maxima  
Poa drummondiana  
Stipa compressa  
Stipa semibarbata group scps  
Tetrarrhena laevis

Proteaceae

Adenanthos meisneri  
Banksia attenuata  
Banksia ilicifolia  
Dryandra nivea  
Grevillea manglesioides  
Persoonia longifolia  
Persoonia saccata  
Petrophile linearis  
Stirlingia latifolia  
Xylomelum occidentale

Restionaceae

Anarthria prolifera  
Hypolaena exsulca  
Leptocarpus tenax  
Loxocarya fasciculata  
Lyginia barbata

Rutaceae

Boronia dichotoma  
Eriostemon spicatus

Stylidiaceae

Levenhookia pusilla  
Stylidium piliferum  
Stylidium repens  
Stylidium schoenoides

Thymelaeaceae

Pimelea rosea

Tremandraceae

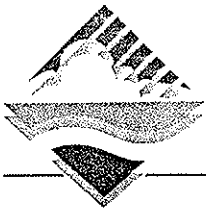
Platytheca galioides  
Tetratheca hirsuta

Xanthorrhoeaceae

Xanthorrhoea brunonis

Zamiaceae

Macrozamia riedlei



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Shire Clerk  
Shire of Capel  
PO Box 369  
CAPEL WA 6271

Your Ref

Our Ref

Enquiries

67/91

N Thorning

ATTENTION: MR BURWOOD

## SYSTEM SIX UPDATE PROGRAMME - FLORA SURVEY INFORMATION

Thank you for providing permission for our botanical team to survey the bushland reserves in the Shire of Capel. As arranged between Mr Burwood and Mrs Bronwen Keighery of this Department, the bushland on Reserves 1167 and 18047 was visited on 18 October 1995 and Reserves 12211, 11797, 32188, 32187, 14076, 18237, 2307 were visited on 19 October 1995. Other reserves have been visited previously as part of the Gibson et al 1994 study.

The botanical survey provides us with information on the natural plant communities found in the area, and their condition. This information is needed to assist the Department of Environmental Protection in its programme to update the conservation recommendations for System 6 and the coastal plain portion of System 1. The main objective of the programme is to ensure that the proposed conservation estate is representative of the ecological communities extant in the region.

As part of this programme the Department has advertised for the public to submit areas of bushland that they consider to be of regional significance. Our botanical team is surveying these submitted areas as well as those it considers may be important based on other factors such as their location and soil type etc. The botanical survey provides us with information on the natural plant communities found in the area, and their condition.

The update programme has employed the botanical survey methodology used in Gibson et al. (1994), 'A Floristic Survey of the Southern Swan Coastal Plain', to provide the main information base upon which to review the adequacy of the existing System recommendations and to assess other bushland areas.

Three survey sites were located on Reserve 1167 and metal fence droppers were left in each corner of the 10 metres by 10 metres square survey sites. We may wish to revisit these sites at a later date, if so, we will contact you prior to our visit. A general description of the vegetation and an assessment of its condition was also completed.



As survey sites had been previously located in the same plant communities in the area, it was not necessary to establish them in any of the other above listed reserves. However, a general description of the vegetation and an assessment of their condition was completed.

The fact that we have surveyed or visited and described the vegetation on these reserves does not necessarily mean that these areas will be included in the updated System 6 Recommendations. The information collected during the visits will be used to assess the relative conservation values of the bushland areas. The final selections for inclusion in the updated System Six Recommendations will be the best possible examples of bushland containing plant community types that are either unrepresented or poorly represented in the current and proposed conservation system.

If you are interested in the information we have collected, the location of the survey sites or any other additional information on the System Six Update Programme please don't hesitate to contact Miss Natalie Thorning (222 7051) or Mr Kevin McAlpine (222 7055).

Once again, thank you very much for your support for this programme.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Colin Sanders', with a stylized flourish underneath.

Colin Sanders  
DIRECTOR  
POLICY AND STRATEGIC STUDIES

29 December 1995

(34) RES 116701



(34) Res 116701  
Reserve 1167, Shire  
of Capel  
18-10-95

(34) Res 116702  
Reserve 1167, Shire  
of Capel  
18-10-95



(34) Res 116703  
Reserve 1167, Shire  
of Capel  
18-10-95