

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: *Hander St / Balfour St / Southern River Road*

b) Nearest Corner: *1637 1642*

c) Lot Number: *+ Part 1641* Street Number: *.....*

d) Town/Suburb/Location: *Southern River*

e) Local Council: *City of Gosnell*

f) Site Name (if any): *Hander Swamp*

g) Approximate size of the area (ha): *5 ha*

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

See attached map

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?

Proposed urban development

.....

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) *Privately owned*

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) *Urban defence cd.*

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)
ancient paperbark forest, significant breeding site for waterbirds also used by a wide range of waterbirds + bushbirds

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?

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

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? *about 1/4 to 1/3*
rest - dense Paperbark forest

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.*grazed*.....

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

W.A. Colver studies - RAOV. (See attachment)
WANA 'Wetlands in the City of Sorrells' - Serenik Study
If yes, please give details of the work*See RAOV. Records*.....
See attachment

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

a) pristine

b) excellent

c) very good. *Although dryland buffer mostly gone.*

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 *(cows)*

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)

Do you know what they are?

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

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

Watersheds, Quenda

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. Purley/Saint Leon Rivers, Holmes-Balfour, Phaebe. More than 500 - metres - 1 km.

If yes, how close are they?

Are they already conservation reserves? *Only Balannup Swamp?*

What is their approximate size? *Varies.*

19. Does the submitted area link other bushland areas? *Could be linked to Holmes/Balfour*

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

N.

Balfour st.

Lander st.

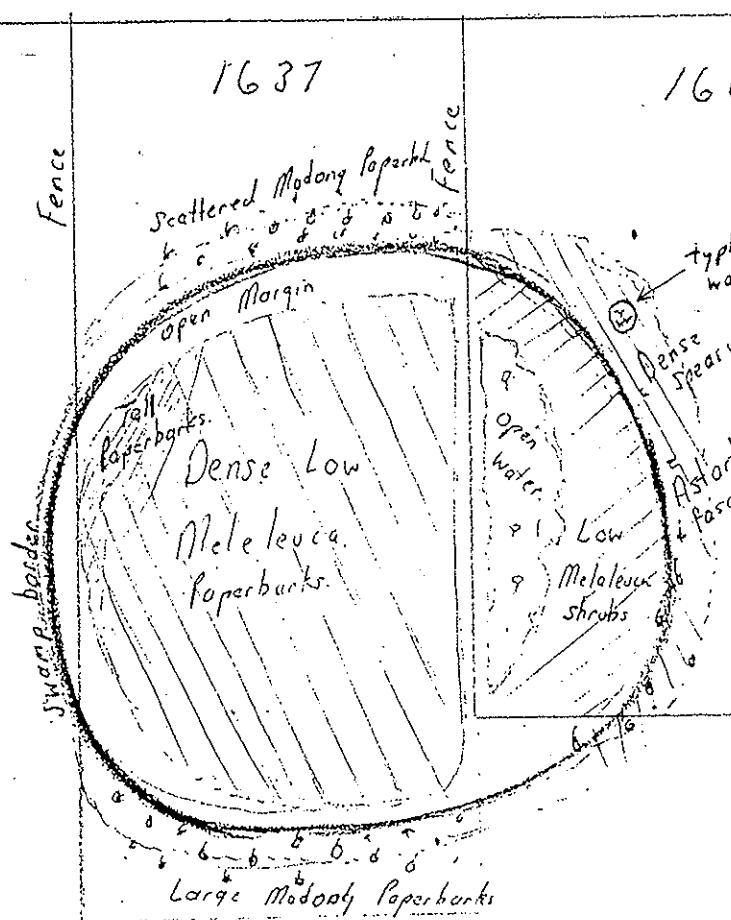
1636

1637

1642

Cleared Paddock

West side cleared →



Cleared Paddock

East side dense vegetation ←

Fence.

Cleared Paddock

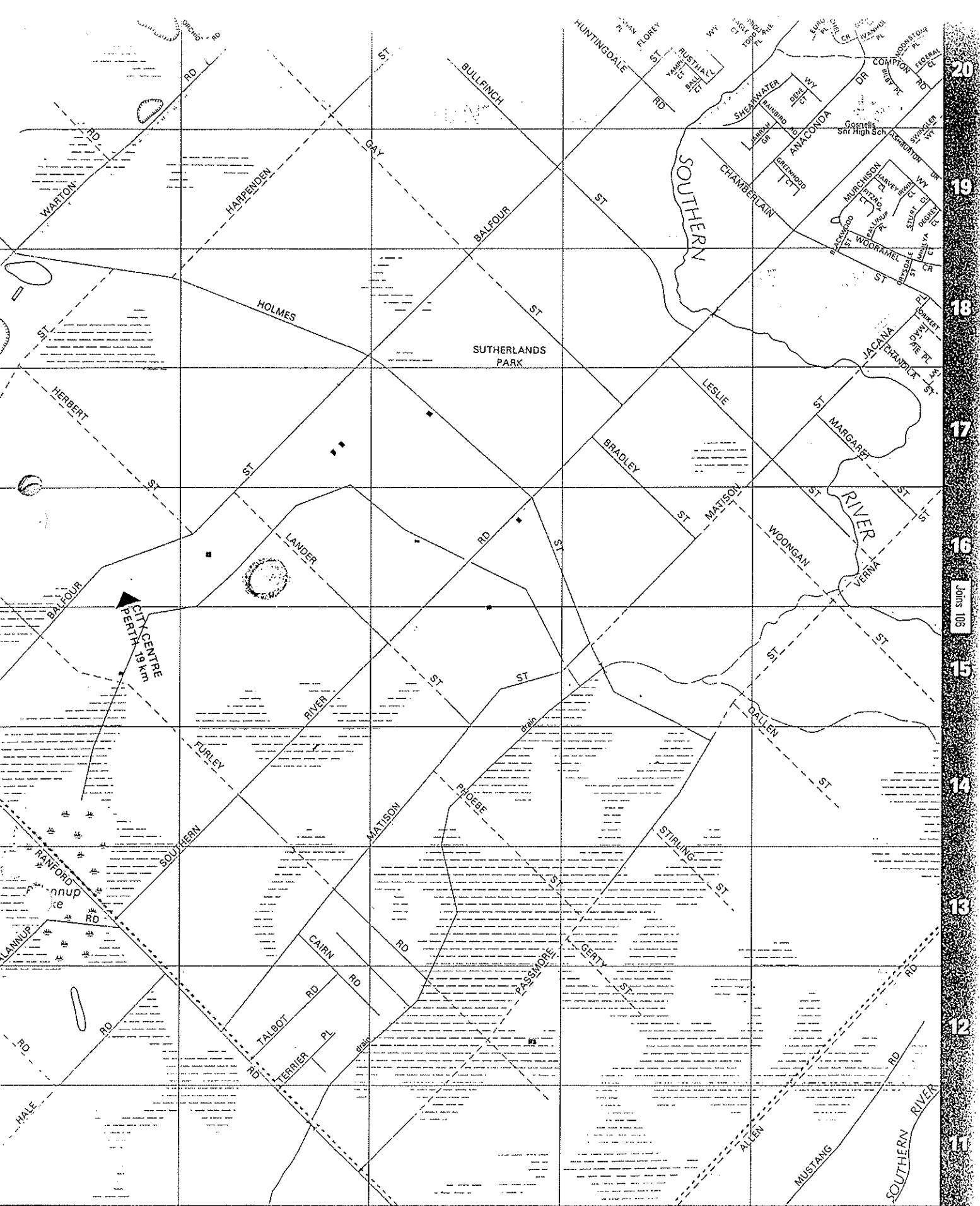
Lander - Balfour Swamp.

Southern River.

FROM D.F. JAMES
284 COMMERCIAL RD.
FORRESDALE 6112
March 1992.

Map 105.

Metro Street Director.



36

37

38

Joins 115

39

40

POLICE STATION POST OFFICE
 HOSPITAL PUBLIC TELEPHONE

TRAFFIC FLOW
 TRAFFIC LIGHTS

FOR COMPREHENSIVE LEGEND, SEE PAGE 3

FROM D.F. JAMES
 284 COMMERCIAL RD
 FORRESDALE 6112

Map 105

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: Lander rd.

b) Nearest Corner: Lander - Balfour.

c) Lot Number: 1637-1642 + Part Lots 1641. Street Number:

d) Town/Suburb/Location: Southern River.

e) Local Council: Gasnelts.

f) Site Name (if any): Lander-Balfour Swamp.

g) Approximate size of the area (ha): 9.

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.: 105

k) Grid Ref: 37x16

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? yes. Proposed urban

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) ?

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)
..... An important wetland for water birds / Attractive area
Its a swamp that still retains dense melaleuca 3m x tall

6. What is/are the soil type/s and colours? for breeding habitat - (on map).
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
..... Like Gibber rd swamp Forcett dale
Few swamps around ponds contain overall melaleuca coverage so dense.

If yes, what are they? Huge Modong Paperbarks around
..... perimeter of swamp.
..... Open area very pictureque with scattered shrubs.

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

If yes, what kind of a wetlands is it?

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

② Photos attached

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? 80% ?

11. If the area includes regions cleared of native bushland please indicate reasons for the inclusion. Central area on E side. Its part of the overall swamp - but surrounded by good vegetation

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

..... yes.

If yes, please give details of the work I did water level surveys

(for the "Scopewest" Survey 1989-92
Swamp Coastal Wetland Study) (list attached)

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 Central area of Swamp. W side of Lot 1642 (on map)
- 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 - margin of Swamp (W side)
- 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)

No.

Do you know what they are?

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

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

Bird lists attached

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? *Lot 1602 Balfour st & Nth of that.*

300 m west.

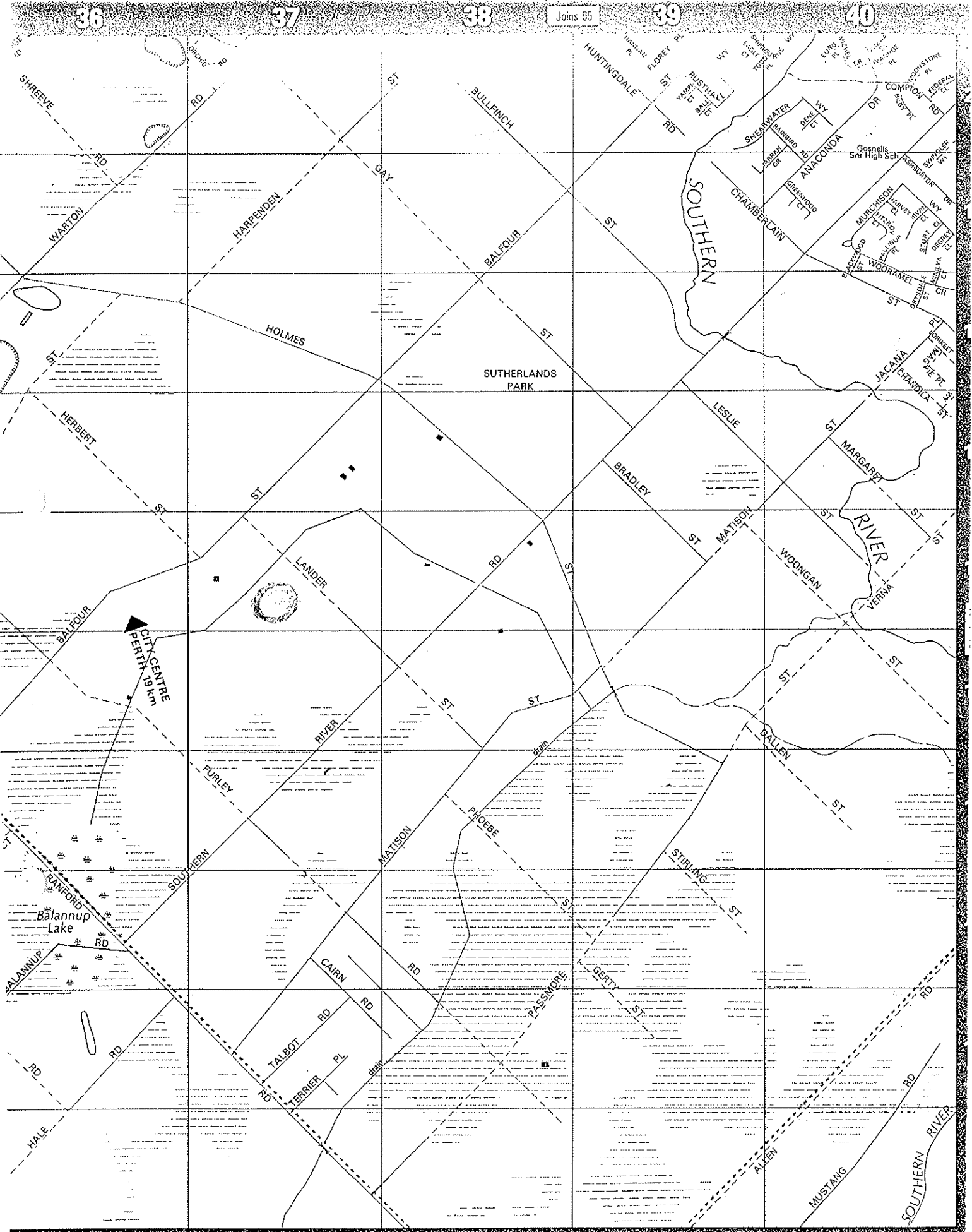
Lake Balannup 1 km South

Are they already conservation reserves? *No. & yes.*

What is their approximate size? *Lake Balannup 15 ha*

19. Does the submitted area link other bushland areas? *No.*

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



36 37 38 Joins 95 39 40

36 37 38 Joins 115 39 40

POLICE STATION HOSPITAL

POST OFFICE PUBLIC TELEPHONE

TRAFFIC FLOW TRAFFIC LIGHTS

FOR COMPREHENSIVE LEGEND, SEE PAGE 3

FROM D.T. JAMES
284 COMMERCIAL RD
FORRESTDALE 6112

Map 105

Lander Swamps

145b

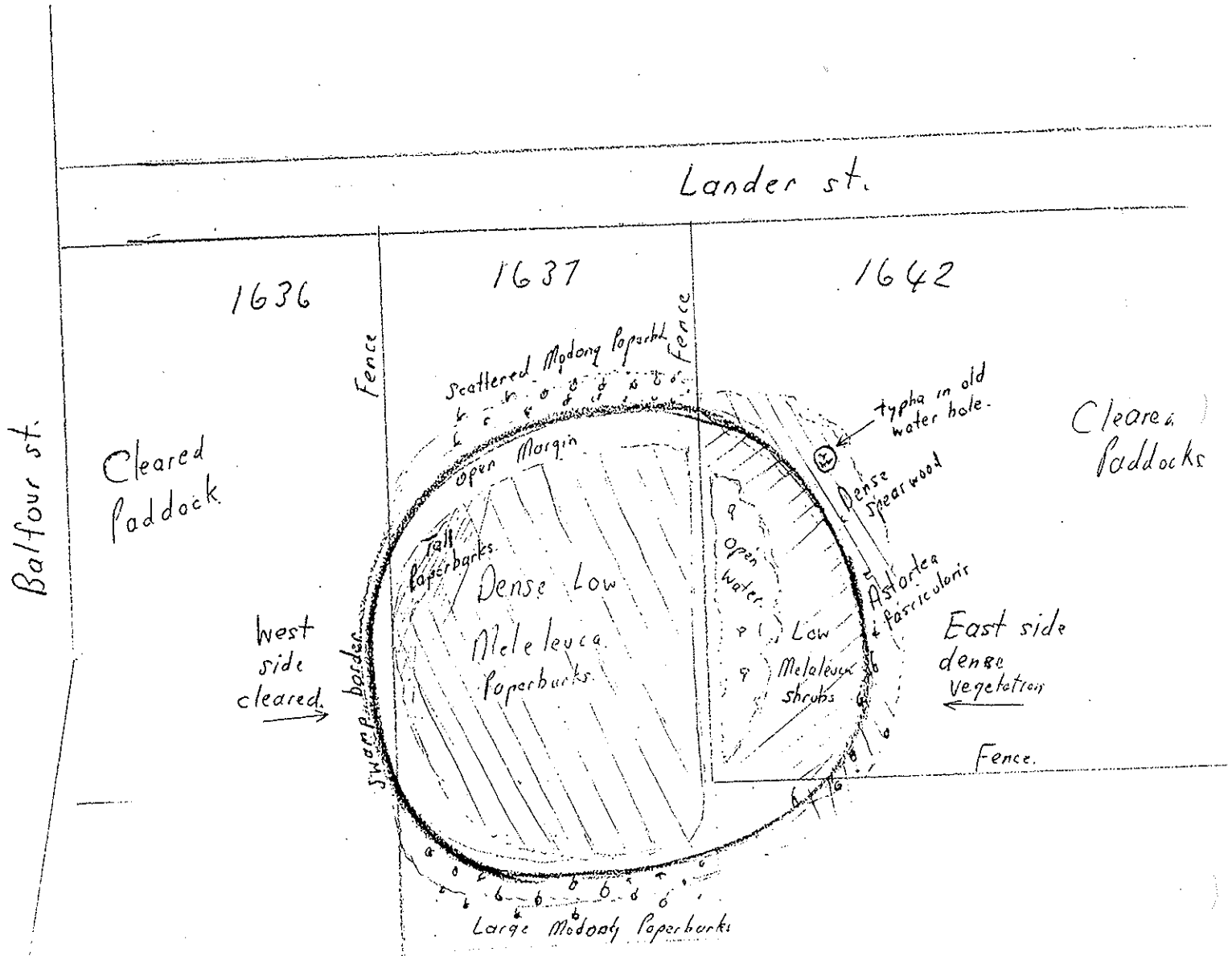
WATER BIRDS SEEN AT LANDER - BALFOUR SWAMP, SOUTHERN RIVER
Results of surveys sent to Royal Australasian Ornithologists Union

Dates of Visits	4.9.89	23.11.89	22.7.90	7.10.90	14.7.91	2.10.91
1 Black Swan	1 *					1 *
2 Black Duck	6	7	30	14	10	7 *
3 Grey Teal	3 *	3	9	9 *	4	11 *
4 Maned Duck	2	58 *		7	5	5
5 Australasian Shoveler		1		1		1
6 Musk Duck						2
7 Pink-eared Duck						2 *
8 Eurasian Coot	1	3 *		2 *	22	8 *
9 Dusky Moorhen					1	
10 White-faced Heron	1	4	2	2 *	4 *	4 *
11 Yellow-billed Spoonbill	1					
12 Banded Lapwing	1			5		
13 Little Pied Cormorant	1		1		1	1
14 Black-fronted Plover		2		2		
15 Rufous Night Heron		1				1
16 Sacred Ibis		1		1		
17 Australian Grebe				2		
18 Black-winged Stilt						4 *

* Recorded breeding

FROM D.F. JAMES
284 COMMERCIAL RD
FORRESTDALE 6112

March 1992



Balfour st.

Lander st.

1636

1637

1642

Cleared Paddock

Cleared Paddocks

west side cleared →

East side dense vegetation ←

swamp border

Fence.

Scattered Medoony Paperbark

Fall Paperbarks

Dense Low Melaleuca Paperbarks

open water

Low Melaleuca shrubs

Dense Spearwood

Asteria & Pasticularis

Lander - Balfour Swamp.

Southern River.

Cleared paddocks

FROM D.F. JAMES
284 COMMERCIAL RD.
FORRESTDALE 6112
March 1992.

Map 105.
Metro Street Director.

BUSH BIRDS SEEN AT LANDER - BALFOUR SWAMP, SOUTHERN RIVER
From casual visits between September, 1989 and March, 1992

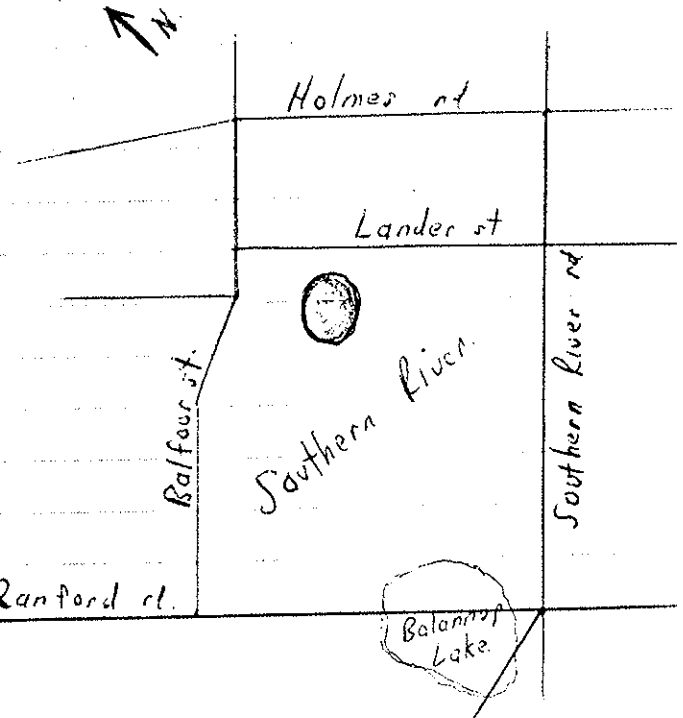
- 1 Brown Goshawk
- 2 Australian Kestrel
- 3 Laughing Turtle-dove
- 4 Common Bronzewing
- 5 Galah
- 6 Red-capped Parrot
- 7 Port Lincoln Ringneck
- 8 Elegant Parrot
- 9 Shining Bronze-cuckoo
- 10 Welcome Swallow
- 11 Tree Martin
- 12 Richards Pipit
- 13 Black-faced Cuckoo-shrike
- 14 Rufous Whistler
- 15 Grey Fantail
- 16 Willie Wagtail
- 17 Splendid Fairy-wren
- 18 White-browed Scrub-wren
- 19 Inland Thornbill
- 20 Yellow-rumped Thornbill
- 21 Red Wattlebird
- 22 Singing Honeyeater
- 23 White-fronted Chat
- 24 Silvereye
- 25 Australian Magpie-lark
- 26 Black-faced Woodswallow
- 27 Grey Butcherbird
- 28 Australian Magpie
- 29 Australian Raven

FROM D.F. JAMES
284 COMMERCIAL RD.
FORRESDALE 6112

March 1992

Vegetation of Lander - Balfour Swamp, Southern River.

- { *Melaleuca preissiana* - Modong Paperbark. }
 Dominant big trees N + S end of swamp. }
- M. rhaphiophylla* - Swamp Paperbark - NW Corner.
- M. lateritia* - Robin Redbreast Bush - several E side.
- M. teretifolia* - Banbar - plentiful E side.
- M. viminea* - Mohan - dominant middle of swamp.
- Regelia ciliata*
- Kunzea ericifolia* - Spearwood - dense area E side of swamp.
- Astartea fascicularis* - dense " " " " " "
- Aotus gracillima* - dense patches " " " " " "
- Euchilopsis linearis* - seen one.
- Kennedia prostrata* - Scarlet Runner.
- Pultenaea reticulata* - several shrubs here - E side of swamp.
- Hypocalymma angustifolium* - White Myrtle
- Cassytha racemosa* - Dodder Laurel
- Acacia pulchella* - Prickly Moses.
- Eucalyptus marginata* - Jarrah - near edge of swamp.
- E. tottiana* - Prickly Bark " " " "
- Xanthorrhoea preissii* - Blackboy - seen 1.
- Leucopogon* sp.
- Hoary Twine-rush - *Leptocarpus canus*.
- Paterersonia occidentalis* - Purple Flag.
- Lobelia* sp.



FROM D.F. JAMES
 284 COMMERCIAL RD.
 FORRESTDALE 6112
 March 1992.

These photos belong to
67

CONFIDENTIAL

David James.
284 Commercial A
Forrestdale
6112



Lander - Balfour Swamp (Eastern side) Sept 1989



Lander - Balfour Swamp (Western side) Sept 1989

