

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: THOMAS RD - MAIN WAWA DRAIN TRAMWAY RESERVE

b) Nearest Corner: JOHNSON RD

c) Lot Number: 1136 1137 1202 1216 1201 Street Number: EAST OF SICKLEMORE RD PARMELIA 6167

d) Town/Suburb/Location:

e) Local Council: KWINANA

f) Site Name (if any): CASUARINA

g) Approximate size of the area (ha): APPROX 70 HA

h) Please locate the area on a map and give us map references if possible: PLAN NO KC-036-M STATE PLANNING SECTION 33 PLAN NO 1.2001/2 (7-2-89) AMENDMENT NO 645/33

i) Map: 131 Streetsmart 1995 UDD/Other: KWINANA TOWN PLANNING SCHEME NO 2

SHEET NO PEEL 5000 B633/05-13 11 11 11 11 11 /05-14

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? RAILWAY PERTH - MANDURAIT SEVERAL PROPOSALS FOR HOUSING + SCHOOL

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

BUT HAVE BEEN DROPPED BECAUSE OF KWINANA FREEWAY AND PROPOSED RAILWAY

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) ..... I THINK IT IS STILL CROWN LAND

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) ..... TOWN PLANNING URBAN

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) ..... 2 DAMP LANDS + D.R.F. SEE 8

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? ..... SINCE THE 1970'S I HAVE PHOTOGRAPHED MOST OF THE PLANT SPECIES, SPIDERS AND INSECT WHICH ARE ALL RECORDED IN THE W.A. MUSEUM. NEW SPECIES: OCRISSONA PARMELIACE AND MARATUS MON (NEAR NOB FOR BANKSIA) AND LOTS MORE

8. Is the area a wetland or does it include a wetland? ..... IT INCLUDES TWO SWAMPS (IN THE 60/70'S IN WINTER WATER IN SUMMER DRY

If yes, what kind of a wetlands is it?

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

NOW IN WINTER MUDDY IN SUMMER DRY THE SWAMPS ARE CALLED BARNEY SWAMP SEE MAP N° K C - 036 - M (INCLUDED) IN THE OLD DAYS 1950-60'S ETC IT WAS KNOWN FOR THE RARE KAINANA DONKEY ORCHID NOW CALLED DIURIS MICRANTHA OR DWARF BEE ORCHID AND HAS BEEN DECLARED AS ENDANGERED FLORA (SEE ORCHIDS OF S.W. AUSTRALIA BY NOEL HOFFMAN & ANDREW BROWN PAGE 405

ONLY LOT N° 1200 AND 1205 HAVE BEEN RESERVED FOR THIS ORCHID WHICH IS ON THE EAST SIDE OF THE DRAIN IN THE 1960'S IT WAS RECORDED IN BARNEY SWAMP

WHICH IS WEST OF THE DRAIN

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

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

10. What percentage of the area is indigenous vegetation? .....95-97%.....

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

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

.....YES.....

If yes, please give details of the work ....SEE BEELIAR WETLANDS AREA CONDITION ASSESSMENT PREPARED BY ARTHUR S WESTON PH.D. (BOTANY) PO BOX 1209 EAST VICTORIA PARK WA 6101 MARCH 1993.....  
(SEE PAGES 11 AND 15 ACKNOWLEDGEMENTS)

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

CONTRIBUTED TO THE BANKSIA ATLAS AUSTRALIAN FLORA & FAUNA SERIES N° 8 1987.

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 <sup>HIGH</sup>, season and frequency <sup>SOMETIMES YEARLY</sup>

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 <sup>LOWERING WATER TABLE.</sup>

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 A LOT.

p) Use as service corridors by the SEC, Main Roads, Water Authority. MAIN DRAIN TO PEEL HARVEY INLET.  
(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? DIURIS MICRANTHA (DWARF BEE ARCHID - PAGE 405 ORCHIDS OF SW AUSTR. BY HOFFMAN & BROWN)

16. Do you know of any native animals that use the area? ..... BANDICOATS BRUSH TAIL POSSUM LOTS + WATER BIRDS (HAVE LIST)

Can you list those you know of? (birds) mammals, reptiles, amphibians etc) LONG NECK TURTLE.

DUGITE, TIGER SNAKE, RHINOPROCEPHALUS GOULDII (LITTLE WHIP OR GOULD'S SNAKE VARANUS GOULDII)

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

If yes, please name them and indicate source of information  
BANDICOATS, BLACK GLOVED WALLABY (RARE) RARE INSECTS & SPIDERS ALL NAMED AND PHOTOGRAPHED.

**CAN YOU TELL US A LITTLE ABOUT THE SURROUNDING AREA**

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

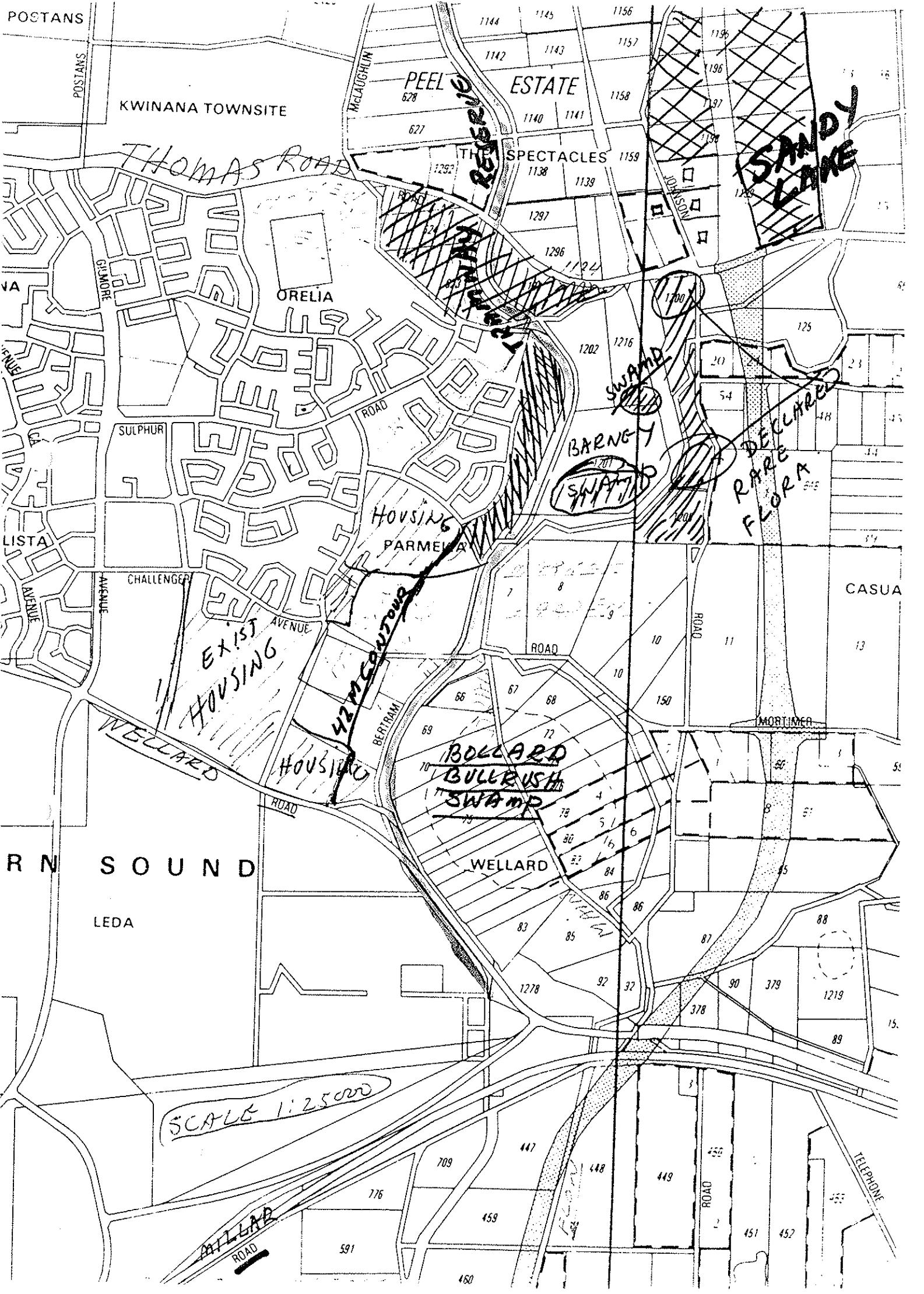
YES  
LOT 1134 PARKS & GARDENS ALCOA - CALM  
If yes, how close are they? THE SPECTACLES (NTH THOMAS T. BOLLARD BULL RUSH SWAMP NTH WELLS RD SANDY LAKE NEAR EAST SPECTACLES)

Are they already conservation reserves? .....

What is their approximate size? SPECTACLES APPROX 360 HA BOLLARD BULL RUSH SWAMP APPROX 100 HA

19. Does the submitted area link other bushland areas? ..... YES IT WOULD BE AN IMPORTANT LINK BETWEEN THE SPECTACLES BOLLARD BULL RUSH SWAMP -> LEDA MIDDY AND LAKE COOLONCUP

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



POSTANS

KWINANA TOWNSITE

PEEL ESTATE  
628  
627

ESTATE

SANDY LAKE

THOMAS ROAD

THE SPECTACLES

GLAMORE

ORELIA

SULPHUR

HOUSING  
PARMELA

SWAMP  
BARNEY SWAMP

DECLARED  
RARE  
FLORA

LISTA

CHALLENGER

EXIST  
HOUSING

HOUSING  
HAMCANTONS

BOLLARD  
BULLRUSH  
SWAMP

CASUA

R N SOUND

LEDA

WELLARD

SCALE 1:25,000

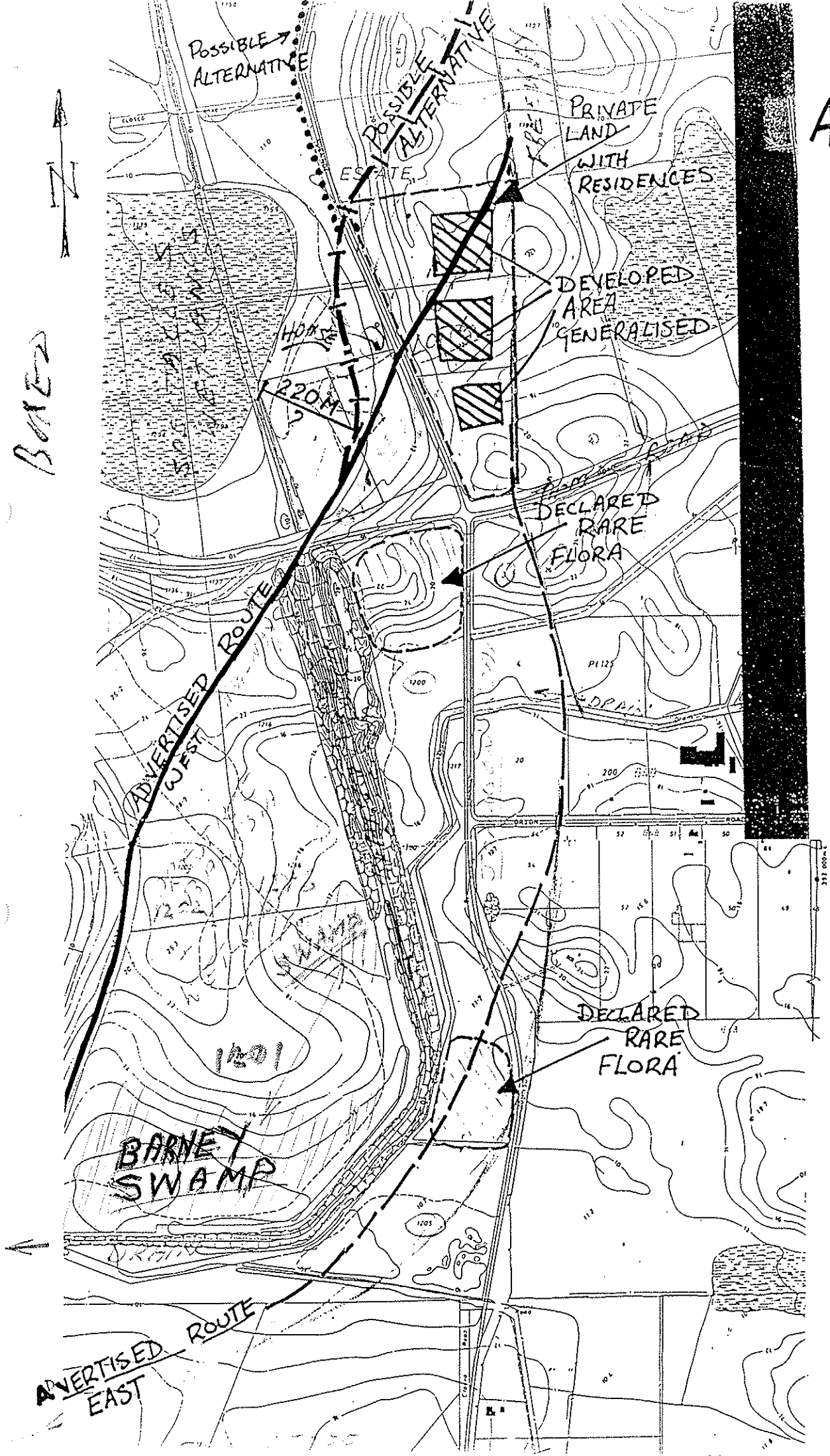
WELLARD ROAD

TELEPHONE

ATT E

CONSTRAINTS

Barne





Abdomen black with light dorsal stripe. Spinnerets black brown. Clypeus and chelicerae black, maxillae dark brown with whitish tips, labium dark brown. Sternum brown, venter beige with 2 longitudinal darker streaks. Legs I dark brown, the others slightly larger. All, but especially first legs, covered with dark and whitish hairs. Palpal organ (Fig. 5B-C) more elongated than in other species, embolus shorter, distal haematodicha larger, tibial apophysis with internal cusps.

*Leg spination*: tl: p1-1, r0-0; ml: p1-1, r1-1; tll: p0-1, r0-0; mll: p1-1, r1-1.

*Dimensions*: CL—4.95; CW—3.49; ratio CW:CL—0.70; EFL—1.52; ratio EFL:CL—0.30; AEW—2.24; PEW—2.37;

AL—4.75.

*Distribution* (Map 2). This species is known only from the single Melbourne locality.

*Ocrisiona parmeliae* n.sp.

Fig. 6A-C, Map 2

*Material examined*. WESTERN AUSTRALIA  
HOLOTYPE male, Parmelia, 2 Nov. 1986, A.E. de Jong  
WAMP 88/46.

A.E. de JONG

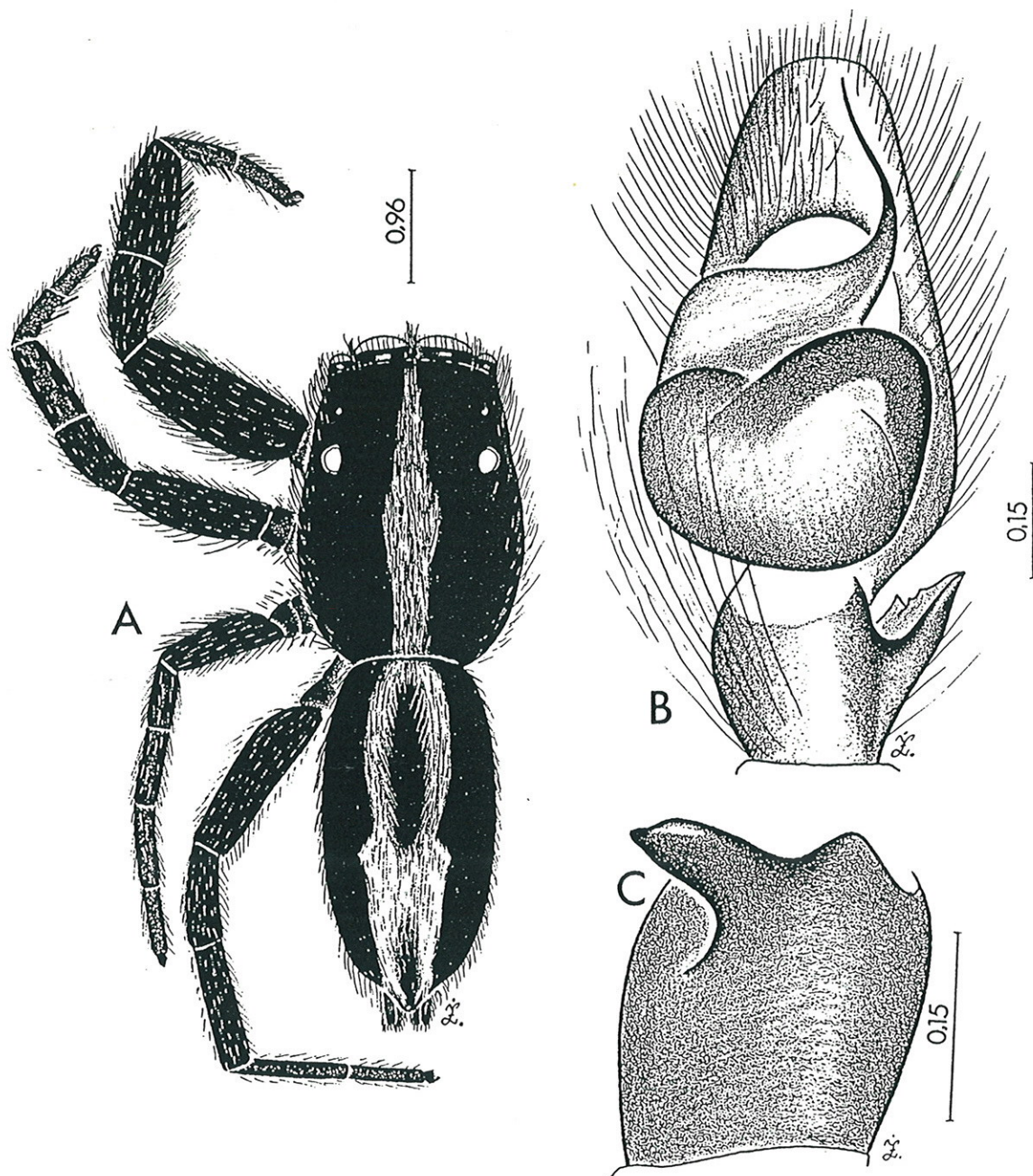


Fig. 6. Male *Ocrisiona parmeliae* n.sp. A — general appearance; B-C — palpal organ.

**Diagnosis.** The species can be recognised by the following combination of characters: wide mid-dorsal stripe of white hairs along the body. Tibia of palpal organ shorter and wider than in other species, with dorsolateral protrusion, notched on internal edge. Body size relatively small (6mm).

**Male** (Fig. 6A): black spider with characteristic pattern of white hairs. Clypeus with long black hairs. Chelicerae with single whitish scale-like setae, maxillae with lighter tips. Legs I with black hairs, especially on ventral patella and tibia. Other legs less haired. All legs also with white hairs. Palpal organ (Fig. 6B-C) similar to in *O. leucomis* but tibia shorter and wider and its apophysis of different shape.

**Leg spination:** tI: p1-1, r0-0; mI: p1-1, r1-1; tII: p0-0, r0-0; mII: p1-1, r0-1.

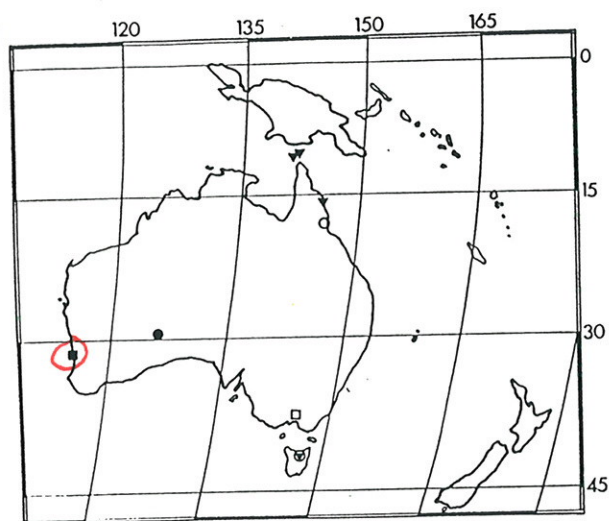
**Dimensions:** CL—2.90; CW—2.04; ratio CW:CL—0.70; EFL—1.05; ratio EFL:CL—0.36; AEW—1.48; PEW—1.55; L—3.04.

**Distribution** (Map 2). This species is known only from the single *Parmelia* locality.

*Ocrisiona melancholica* (L. Koch, 1879)  
Figs 7A-E, 8A-C, Map 3

*Marptusa melancholica* L. Koch, 1879: 1113.  
*Ocrisiona melancholica*.—Rainbow, 1911: 292.

**Material examined.** QUEENSLAND: 1 female, Leo Creek, under bark of *Araucaria cunninghami*, 15 Aug. 1972, B. Gray, AMS KS13074; 1 female, Kroombit Tops (Upper Kroombit Creek), 45 km south-west of Calliope, open forest, 9-19 Dec. 1983, V. Davies, J. Gallon, QMB S4589; 1 juvenile, rainforest, QMB S4592; 2 females, Gympie, W.W. Frogatt, AMS KS13315; 1 female,



Map 2. Distribution of six species of *Ocrisiona*: *O. cucalypti* (open circle); *O. koahi* (inverted triangle); *O. melanopyga* (inverted triangle in circle); *O. parmeliae* (closed square); *O. victoriae* (open square); *O. yakatunya* (closed circle).

Brisbane, Victoria Park, 3 Aug. 1979, N. Cotsell, R. Raven, QMB S4602; 1 female, Lamington National Park, 25 Feb. 1937, H.A. Longman, QMB W702; 1 female, Girraween National Park, 7 Sept. 1983, R.R. Jackson, QMB S4575. NEW SOUTH WALES: 1 juvenile, Brooklana, East Dingo, June 1929, W. Heron, AMS KS18238; 1 female, Yarramundi, 19 Sept. 1965, AMS KS18853; 1 female, Pitt Town, 23 July 1967, C.E. Chadwick, AMS KS18854; 1 female, Mount Coolongatta, 8 Aug. 1966, R. Mascord, AMS KS18852. SOUTH AUSTRALIA: 1 female, Wongawilli, 13 Aug. 1966, R. Mascord, AMS KS18855. LORD HOWE ISLAND: 2 females, AMS KS18856, 1 female Dec. 1923, A. Musgrave, G. Whitby, AMS KS18858, 1 male under lichen on wet rock wall, Feb. 1971, M. Gray; AMS KS18859. The female holotype together with syntypes of *O. leucomis* from their type locality (ZMH 16523) were examined.

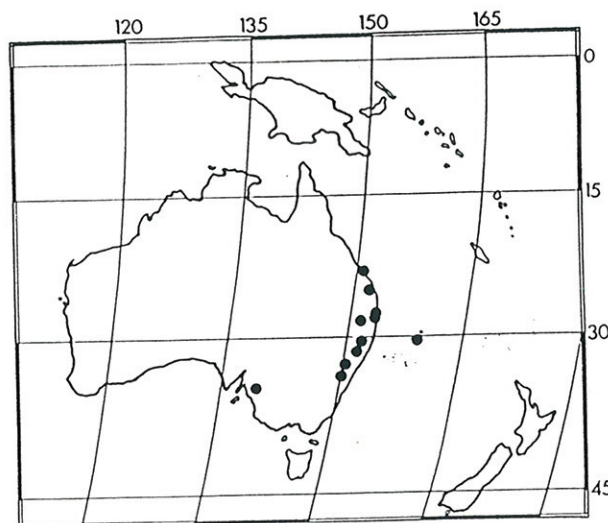
**Diagnosis.** The species can be distinguished by the following characters: large pale abdominal patches in both sexes, spination of tibiae I and II and genitalia structure.

**Male** (Fig. 7A): cephalothorax brown to black, eye field black, thoracic part with stripe of white hairs, the same hairs also scattered on eye field and marginally. Abdomen grey brown to brown with large light patches. Clypeus brown to black with single long grey hairs. Chelicerae black brown, lighter distally with long white hairs. Maxillae and labium black brown, their tips lighter. Sternum dirty brown, darker marginally, venter grey. Legs black brown proximally, distally lighter. Legs I heavily haired. Palpal organ (Fig. 7B-C) similar to *O. leucomis* but embolus much shorter, less curved, tibial apophysis of different shape.

**Leg spination:** tI: p0-1, r0-0; mI: p1-1, r1-1; tII: p0-1, r0-0; mII: p1-1, r1-1.

**Dimensions:** CL—4.22; CW—3.03; ratio CW:CL—0.71; EFL—1.26; ratio EFL:CL—0.29; AEW—1.95; PEW—1.98; AL—4.88.

**Female** (Fig. 8A): very similar to male, legs I slightly shorter, abdomen longer. Epigyne (Fig. 9B-E) very similar to that of *O. koahi* n.sp.



Map 3. Distribution of *O. melancholica*.

# Kwinana's New Look Projects

Ridley Green, Medina  
Refurbishment  
Stage 1, 2, 3.

Orelia New Subdivision – Stage 1  
Stage 1

Display Village  
*SPECTACLES.*



For further information call  
our Head Office on  
368 2211.

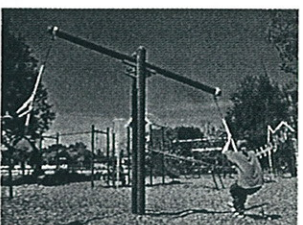
## Two new residential development opportunities in Kwinana



A:



C:



B:



D:



E:

- A:** Refurbishment will include fencing, landscaping, driveways, reticulation, letterboxes, verandahs and painting. Expected prices of Stage One refurbished properties is expected to be \$42,500-\$50,000 and will be sold to private owner occupiers.
- B:** Plans include reviews of established parks and public open spaces with community consultation an integral part of the ongoing programme.
- C:** Landscaped beautification to major road entries into Kwinana as well as home building covenants on lots requiring new home owners to put in fences, driveways and landscaping to maintain the highest possible standards.
- D:** Flora and fauna is being relocated as part of an integrated conservation strategy.
- E:** Average block values in Kwinana's new subdivisions is expected to be around \$45,000. Work in Orelia has commenced and 128 residential lots will come onto the market in September.

With my compliments, A.E.  
Julianne

## A new species of *Maratus* from southwestern Australia (Araneae: Salticidae)

Julianne M. Waldock

Western Australian Museum, Francis Street, Perth, Western Australia 6000, Australia

**Abstract** – A new species of jumping spider, *Maratus mungaich*, is described from the banksia woodlands and jarrah forests of southwestern Western Australia. *Maratus amoenus* Żabka, 1987, is designated as a junior primary homonym and junior primary synonym of *M. amoenus* Karsch, 1878.

### INTRODUCTION

The Australian jumping spider genus *Maratus* was described by Karsch (1878) for the species *M. amabilis* Karsch and *M. amoenus* Karsch, but *M. amabilis* Karsch was later tentatively synonymised with *Saitis* Simon by Simon (1901). Żabka (1987) redescribed both *M. amabilis* and *M. amoenus* based on the type material in the Zoological Museum in Berlin and revalidated *Maratus* as a separate genus. Males of many species of the genus possess brilliantly coloured abdomens, making them easy to recognise in the field and in museum collections. A relatively common species found in the banksia, marri and jarrah mixed forests of southwestern Australia is described here.

### MATERIALS AND METHODS

Material is lodged in the Western Australian Museum (WAM) and the South Australian Museum, Adelaide (SAM). The female genitalia was examined by dissecting the epigynum from the abdomen and clearing it in 10% lactic acid for 10 min. in a warm water bath. The epigynum was mounted in glycerol and drawn with a camera lucida. Other drawings were made using a graticule fitted to a Wild dissecting microscope.

### SYSTEMATICS

Family Salticidae

Genus *Maratus* Karsch

*Maratus* Karsch, 1878: 27; Żabka, 1987: 479.

*Saitis*?: Simon, 1901: 564-565.

#### Type species

*Maratus amabilis* Karsch, 1878, by subsequent designation of Bonnet, 1957: 2713.

### Remarks

In 1987 Żabka resurrected *Maratus*. Males of *Maratus* species have various modifications to their abdomens which include long fringing hairs or extendable side-flaps as well as special coloured hairs which give the abdomen a silk-like lustre which can vary in colour according to the angle of view, similar to a peacock's tail feathers. These modifications and the colours and patterns of the coloured hairs are species specific. Males also have the third legs longer than the others and these legs have thick black hairs on the dorsal surfaces of the tibia and metatarsi whilst the tarsi of these legs have thick white hairs on the dorsal surface.

Female *Maratus* do not have any of the special attributes of the males and must be distinguished from related genera by genitalic differences. The main distinguishing feature in female *Maratus* genitalia is that the spermathecae are wider than the fossae (Figs 8,9).

### Abbreviations

The names of some collectors have been abbreviated as follows in the *Other Material* section: M.S. Harvey (MSH), J.M. Waldock (JMW), A. Sampey (AS), A.E. de Jong (AEJ).

### *Maratus mungaich* sp. nov.

Figures 1-10

### Material Examined

#### Holotype

♂, Mt Cooke, Western Australia, Australia, 32°25'S, 116°18'E, 1 October 1990, M.S. Harvey, J.M. Waldock (WAM 93/1635).

#### Paratypes

Australia: Western Australia: 1♂, base of Mt Cooke, 32°25'S, 116°18'E, 29 September 1990, J.M. Waldock (WAM 93/1628); 6♂, 1♀, Mt Cooke,

### **Barney's Swamp and surrounding vegetation**

We urge the inclusion of this wetland in the linkage proposed between The Spectacles and Bollard Bullrush Swamp. The flora in the area is of particular note and there are rare species present. It also provides a wildlife link between Bollard Swamp and The Spectacles.

### **Important Regional Roads**

We are most unhappy with the numerous roads which intersect the Leda Reserve. This System 6 area has a number of important characteristics. It supports the Black-Gloved Wallaby which is in need of Special Protection, and has a number of significant wetlands. The proposals for roads to go through the Reserve is quite unsatisfactory and inconsistent with the Coalition's position on Leda prior to their election to Government.

### **Reserve for the South West Corridor Public Transport Route**

We lodge our very strong objection to the proposed route which would adversely affect The Spectacles wetland, the Leda Reserve in the Stage A, M.R.S. Amendment. As well as the significant wetland chain, known as the Rockingham Lakes (which include System 6 areas and A Class Nature Reserves) in Stage B, M.R.S. Amendment.

This is very poor planning and comparable with the policies of 25 years ago when the Swan River was filled in for freeways. It makes much more sense to put it down the freeway, where it would be cheaper and faster and would service the proposed new suburbs in the Baldivis and Amarillo areas. The proposed route would have maximum impact on the environment and also bring noise and disruption to the many residents in Parmelia, Hillman, Leda and East Rockingham. **We request that this route be deleted.**

We urge the State Planning Commission to give due consideration to the issues we have raised.

Yours faithfully,

Joan Payne  
Urban Bushland Coordinator

**PLEASE TAKE THE TIME TO MAKE A SUBMISSION TO:-**

The Secretary, State Planning Commission, 469 Wellington Street, Perth 6000  
**BY 25th February, 1994**

**POINTS WHICH CAN BE MADE ARE -**

1. Strongly support the establishment of a Jandakot Botanic Park.
2. Support all the areas identified in the Jandakot Land Use and Water Management Strategy to be included in the Park..
3. Also applaud the Government's additions, including
  - \* the additional areas in Forrestdale, particularly Lots 38, 39 and 40 Taylor Road
  - \* the buffer area to The Spectacles Swamp, west and east of the Kwinana Freeway
  - \* the area south of Thomas Road linking up with the Bollard Swamp
  - \* the additional area between Anketell Road and Thomas Road
  - \* Branch Circus Swamp
  - \* all of the lake east of Nicholson Road in Forrestdale
  - \* the Oxley Road wetland in Forrestdale
  - \* the corridor of uncleared land between The Spectacles and Bollard Swamp?

**Would like the Government to also include -**

- \* additional areas adjacent to the Jandakot Airport, particularly Lot 131 bounded by Mason, Verna and Fraser Roads and Lots 146 and 147
- \* the area to the north of Green's Swamp in Forrestdale, being Lots 2 and 3 Ranford Road - good banksia woodland and should be included
- \* widen the corridor of land between The Spectacles and Bollard Bulrush Swamp to include Barney's Swamp and associated rare flora

**VERY CONCERNED WITH -**

1. PROPOSED URBANISATION OF AREA between Gibbs and Rowley Roads, east of the Kwinana Freeway. This is swampy land and would have drainage problems. Urbanisation would pose a real threat to the groundwater. This area is within the borefield.
2. STRONGLY oppose the Regional Roads and Public Transport Route shown intersecting the Leda area. The Government, when in Opposition strongly supported the protection of the Leda area even proposing a Bill in Parliament to protect it. Now the Coalition are proposing to cut it up with roads and public transport routes. The Leda Reserve is a System 6 area which would be badly damaged by this proposal.

***PLEASE make the effort to put in a short submission.***

METROPOLITAN REGION SCHEME - SOUTH WEST CORRIDOR  
(STAGE A) AMENDMENT 938/33

(STAGE B) 937/33

*POINTS WHICH CAN BE MADE -*

1. Strongly support the establishment of a Jandakot Botanic Park, as proposed in the above Amendment.
2. Strongly support the additional areas being proposed by the Government for Parks and Recreation, particularly around Forrestdale, The Spectacles Swamp, Anketell and Thomas Roads.
3. Disappointed that the area which adjoins Ranford Road, north of Greens Lake was not included in the Park. This should be rectified?
4. Disappointed that Barney's Swamp in Parmelia was not included in the proposed Park and is instead being zoned for Urban. Area recognised for its botanical importance so should be in the Park, not zoned Urban. Coalition promised to protect wetlands and not continue to drain and fill them. Why are they disregarding their pre-election promise on wetlands.
5. Land east of the Kwinana Freeway as far south as Rowley Road, should not be zoned Industrial or Urban Deferred. There would be a serious risk to the groundwater if this were to proceed unmodified. This part of the Amendment should be withdrawn.
6. Strongly oppose the dissection of the Leda Nature Reserve in Kwinana by numerous roads and also a Public Transport Route which will pass through one of the most significant wetlands as well as the limestone ridge. This is totally unsatisfactory.
7. Important banksia woodland and heathland near Mason and Fraser Roads in Jandakot should also be included in the Park.

Send your submission to

The Secretary  
State Planning Commission  
469 Wellington Street  
PERTH WA 6000

by 25th February, 1994

*For further assistance ring Joan Payne, Urban Bushland Coordinator at the Conservation Council of W.A. on 220 0652*