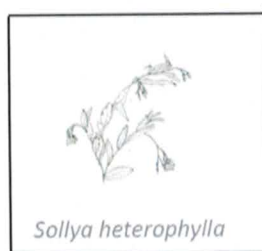


## Spring Survey at Lot 650 Thomas Rd Casuarina



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October 2012

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## 1. BACKGROUND

The consulting firm GHD (2012) undertook a flora and fauna survey of this lot in autumn. It was recommended that an additional survey be undertaken in spring to increase the number of species recorded from the site and to search for threatened and priority flora. The original report covers all the background information and this report will only cover additional information recorded as a result of the spring survey.

## 2. SCOPE OF WORK

The requirements for this project were to:

- i. Record additional taxa at each of the quadrats established by GHD (2012); and
- ii. Search for and record all threatened and priority species at the site.

## 3. METHODS

Prior to undertaking the field work the MGA zones for each quadrat were entered into the handheld GPS. The species records for each quadrat were printed for checking in the field.

The spring survey was undertaken on October 17<sup>th</sup> 2012. Tracks were driven and transects were walked through the remnant bushland to locate the quadrats and to search for any threatened or priority flora. Two species were identified by GHD as potentially being located at the site. These were *Caladenia huegelii* and *Diuris purdiei* both threatened flora.

*Caladenia huegelii* has been recorded from Woodland of *Banksia attenuata* and *Banksia menziesii*; Woodland of *Eucalyptus marginata* and *Banksia* species; Low Open Woodland of *Melaleuca preissiana* over *Melaleuca thymoides*. Woodland of *Banksia attenuata* and *Banksia menziesii* occurs at the site but no plants of this taxon were recorded.

*Diuris purdiei* has been recorded from winter wet swamps. The winter wet swamps at the site were a Woodland of *Melaleuca rhapsiophylla* and Thicket of *Kunzea glabrescens*. Detailed searches were undertaken in these vegetation units without locating this taxon.

A detailed search of all the remnant vegetation was undertaken but the emphasis was on the vegetation units described.

## 4. RESULTS

### 4.1 Threatened and Priority Flora

No threatened or priority flora were recorded during the survey.

### 4.2 Quadrats

All quadrats were located using a hand held GPS, data sheets and photographs prepared by GHD (2012). Species names have been updated where they could not be named during the original survey. Additional species have been added to the quadrat and outside of the quadrat (opportunistic species). The format used by GHD has been followed.

**Quadrat 1. *Banksia* and *Allocasuarina* Woodland over Shrubland**

Species	Cover (%)	Height (m).
<i>Acacia pulchella</i> var. <i>glabrescens</i>	30-70	<1
<i>Allocasuarina fraseriana</i>	2-10	<10
<i>Arnocrinum preissii</i>	<2	Sedge
<i>Banksia attenuata</i>	2-10	<10
<i>Banksia menziesii</i>	10-30	>2
* <i>Briza maxima</i>	<2	Grass
<i>Burchardia congesta</i>	2-10	Herb
<i>Calytrix flavescens</i>	<2	<1
<i>Calytrix fraseri</i>	<2	<1
* <i>Carpobrotus edulis</i>	30-70	Herb
<i>Conostephium pendulum</i>	2-10	<1
<i>Conostylis aculeata</i>	2-10	Sedge
<i>Dasypogon bromeliifolius</i>	<2	Sedge
<i>Dianella revoluta</i>	<2	<1
* <i>Ehrharta calycina</i>	30-70	Grass
<i>Gompholobium tomentosum</i>	2-10	<1
<i>Hibbertia hypericoides</i>	<2	<1
<i>Hovea pungens</i>	<2	<1
<i>Hypolaena exsulca</i>	<2	Sedge
<i>Jacksonia furcellata</i>	<2	1.5
<i>Lepidosperma pubisquamum</i>	2-10	Sedge
<i>Leucopogon conostephioides</i>	30-70	<1
<i>Lyginia imberbis</i>	<2	Sedge
<i>Petrophile linearis</i>	<2	<1
<i>Phlebocarya ciliata</i>	2-10	Sedge
* <i>Ursinia anthemoides</i>	<2	Herb
* <i>Vulpia bromoides</i>	20	Grass

**OPPORTUNISTIC SPECIES**

* <i>Arctotheca calendula</i>	* <i>Euphorbia terracina</i>	<i>Patersonia occidentalis</i>
* <i>Briza minor</i>	* <i>Hypochaeris glabra</i>	* <i>Pelargonium capitatum</i>
* <i>Bromus diandrus</i>	<i>Kennedia prostrata</i>	<i>Pimelea rosea</i>
<i>Drosera menziesii</i>	<i>Macarthuria australis</i>	* <i>Sonchus oleraceus</i>
* <i>Euphorbia peplus</i>	<i>Macrozamia riedlei</i>	* <i>Trachyandra divaricata</i>

**NOTE:** There were a lot of *Banksia* species deaths about 50m to the west of the quadrat. The quadrat as described was small in area. Some of the trees within the quadrat were not healthy.



Deaths could be due to long summers but more likely dieback

**Quadrat 2. *Banksia* Woodland over Shrubland**

Species	Cover (%)	Height (m)
<i>Acacia huegelii</i>	2-10	<1
<i>Adenanthos cygnorum</i>		<1
<i>Banksia attenuata</i>	30-70	10-30
<i>Banksia menziesii</i>	30-70	<10
<i>Bossiaea eriocarpa</i>	<2	<1
* <i>Briza maxima</i>	10-30	Grass
<i>Burchardia congesta</i>	2-10	Herb
<i>Caladenia flava</i>	<1	30
<i>Calytrix flavescens</i>	<2	<1
<i>Calytrix fraseri</i>	<2	<1
* <i>Carpobrotus edulis</i>	<2	Herb
<i>Dasyopogon bromeliifolius</i>	30-70	
* <i>Ehrharta ?calycina</i>	30-70	Grass
* <i>Gladiolus caryophyllaceus</i>	<2	Herb
<i>Hibbertia subvaginata</i>	30-70	<1
<i>Hovea pungens</i>	<1	<1
<i>Leucopogon conostephioides</i>	<2	<1
<i>Mesomelaena pseudostygia</i>	<1	<1
<i>Petrophile linearis</i>	<2	<1
<i>Phlebocarya ciliata</i>	10-30	Sedge
<i>Platysace filiformis</i>	2-10	Herb
<i>Schoenus curvifolius</i>	2-10	Sedge
* <i>Ursinia anthemoides</i>	10-30	Herb

**OPPORTUNISTIC SPECIES**

<i>Acacia pulchella</i> var. <i>glabrescens</i>	* <i>Echium plantagineum</i> (Declared P1)+	<i>Lyginia imberbis</i>
<i>Allocasuarina fraseriana</i>	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	* <i>Lysmachia arvensis</i>
* <i>Arctotheca calendula</i>	* <i>Euphorbia terracina</i>	<i>Macrozamia riedlei</i>
* <i>Avena barbata</i>	<i>Gompholobium tomentosum</i>	<i>Patersonia occidentalis</i>
<i>Banksia ilicifolia</i>	<i>Hardenbergia comptoniana</i>	* <i>Petrorhagia dubia</i>
<i>Cartonema philydroides</i>	<i>Hibbertia hypericoides</i>	<i>Pimelea rosea</i>
<i>Conostylis aculeata</i>	* <i>Hypochoeris glabra</i>	<i>Romulea rosea</i>
<i>Conostylis serrulata</i>	<i>Jacksonia furcellata</i>	* <i>Senecio pinnatifolius</i>
<i>Crassula colorata</i>	* <i>Lagurus ovatus</i>	<i>Solanum symonii</i>
<i>Drosera menziesii</i>	<i>Lomandra hermaphrodita</i>	* <i>Sonchus oleraceus</i>

**NOTE:** Quadrat in very good to good condition but the surrounding area is good to degraded

+ See GHD (2012).

**Quadrat 3. *Melaleuca raphiophylla* and *Eucalyptus rudis* subsp. *rudis* Woodland**

Species	Cover (%)	Height (m)
* <i>Bromus diandrus</i>	50	<1
<i>Eucalyptus rudis</i> subsp. <i>rudis</i>	30-70	10-30
* <i>Gomphocarpus fruticosus</i>	<2	<1
<i>Juncus kraussii</i>	2	1-2
<i>Melaleuca raphiophylla</i>	30-70	10-30
<i>Melaleuca</i> sp.	2-10	
* <i>Phalaris paradoxa</i>	30-70	
*Poaceae sp.	30-70	
* <i>Rumex crispus</i>	1	<1
<i>Solanum symonii</i>	2-10	1-2

**OPPORTUNISTIC SPECIES**

<i>Acacia saligna</i>	* <i>Euphorbia terracina</i>	* <i>Marrubium vulgare</i>
* <i>Avena barbata</i>	<i>Exocarpus sparteus</i>	* <i>Pennisetum clandestinum</i>
* <i>Conyza</i> sp.	* <i>Geranium molle</i>	<i>Pteridium esculentum</i>
* <i>Echium plantagineum</i>	<i>Geranium solanderi</i>	* <i>Solanum nigrum</i>
* <i>Ehrharta calycina</i>	* <i>Lolium rigidum</i>	* <i>Sonchus asper</i>
* <i>Ehrharta longiflora</i>	* <i>Lythrum hyssopifolia</i>	* <i>Sonchus oleraceus</i>

**Quadrat 4. Dampland of *Melaleuca* species**

Species	Cover (%)	Height (m)
*?Brassicaceae sp.	30-70	
* <i>Carpobrotus edulis</i>	30-70	
* <i>Cynara cardunculus</i> this should be (Declared P1, P3) ADJ	* <i>Cirsium vulgare</i>	
<i>Melaleuca raphiophylla</i> .	30-70	<1
<i>Melaleuca teretifolia</i>	<2	

**OPPORTUNISTIC SPECIES**

\**Avena barbata*  
 \**Cortaderia selloana*  
 \**Ehrharta longiflora*  
 \**Phytolacca octandra*  
 \**Romulea rosea*  
*Solanum symonii*

**NOTE:** Area regenerating after fire about 2-3 years previously. \**Carpobrotus edulis* under the dense regenerating *Melaleucas* has died with the dense shade. Cover of regenerating *Melaleucas* is about 95%



\**Cirsium vulgare*

Flower

Leaf



**Quadrat 5. Sedgeland**

Species	Cover (%)	Height (m)
*?Brassicaceae sp.	10-30	Herb
* <i>Bromus diandrus</i>	20	<1
* <i>Cirsium vulgare</i>	5	<1
* <i>Cynodon dactylon</i>	10-30	Grass
* <i>Gomphocarpus fruticosus</i>	30-70	1-2
* <i>Holcus lanatus</i>	50	<1
<i>Juncus kraussii</i>	15	1-2
* <i>Phytolacca octandra</i>	2-10	Herb
* <i>Rumex crispus</i>	15	<1

**OPPORTUNISTIC SPECIES**

- \**Avena barbata*
- Cycnogeton lineare*
- Eucalyptus rudis* subsp. *rudis*
- Geranium solanderi*
- \**Marrubium vulgare*
- Melaleuca preissiana*
- \**Pennisetum clandestinum*
- \**Phalaris paradoxa*

**Quadrat 6. Sedgeland. *Astartea scoparia* adjacent to quadrat**

Species	Cover (%)	Height (m)
*?Brassicaceae sp.	2-10	Herb
* <i>Carpobrotus edulis</i>	30-70	Herb
<i>Juncus kraussii</i> subsp. <i>australiensis</i>	30-70	Sedge
* <i>Phalaris paradoxa</i>	2-10	Sedge
*Poaceae sp.	10-30	Grass

**OPPORTUNISTIC SPECIES**

- |                                  |                             |
|----------------------------------|-----------------------------|
| * <i>Avena barbata</i>           | <i>Kunzea glabrescens</i>   |
| * <i>Bromus diandrus</i>         | * <i>Lotus subbiflorus</i>  |
| <i>Eutaxia virgata</i>           | <i>Melaleuca preissiana</i> |
| <i>Exocarpus sparteus</i>        | <i>Schoenus rigens</i>      |
| * <i>Holcus lanatus</i>          | * <i>Vulpia bromoides</i>   |
| <i>Hypocalymma angustifolium</i> |                             |

Adjacent to this quadrat on the northern side was a Dense Shrubland of *Kunzea glabrescens*. On the south side was a Shrubland of *Astartea scoparia*.



**Quadrat 7. *Eucalyptus rudis* subsp. *rudis* Woodland over *Melaleuca* Shrubland**

Species	Cover %	Height (m)
<i>Astartea scoparia</i>	3	1-2
* <i>Bromus diandrus</i>	3	<1
* <i>Carpobrotus edulis</i>	30	<1
* <i>Ehrharta longiflora</i>	6	<1
<i>Eucalyptus rudis</i> subsp. <i>rudis</i>	2	18
* <i>Lolium rigidum</i>	2	<1
* <i>Lotus subbiflorus</i>	60	<1
* <i>Moraea flaccida</i>	2	<1
* <i>Romulea rosea</i>	10	<1

**OPPORTUNISTIC SPECIES**

- \**Bromus hordeaceus*
- \**Disa bracteata*
- Melaleuca preissiana*
- \**Sonchus oleraceus*
- \**Trifolium subterraneum*

**Note:** Further into the remnant vegetation there were a lot of regrowing *Eucalyptus rudis* subsp. *rudis* and *Melaleuca raphiophylla* forming a dense thicket.

**Quadrat 8. *Kunzea* thicket.**

Species	Cover (%)	Height (m)
* <i>Arctotheca nivea</i>	2	Herb
* <i>Avena barbata</i>	5	Grass
* <i>Carpobrotus edulis</i>	<2	Herb
* <i>Cerastium glomeratum</i>	5	Herb
<i>Crassula colorata</i>	5	Herb
* <i>Hypochaeris glabra</i>	5	Herb
* <i>Isolepis marginatus</i> .	30-70	Herb
<i>Kunzea glabrescens</i>	>70	>2
* <i>Vulpia bromoides</i> .	25	Grass

**OPPORTUNISTIC SPECIES**

- |                           |                              |
|---------------------------|------------------------------|
| <i>Acacia saligna</i>     | * <i>Lactuca serriola</i>    |
| <i>Banksia ilicifolia</i> | <i>Melaleuca teretifolia</i> |
| <i>Caladenia flava</i>    | <i>Pterostylis</i> sp.       |
| <i>Dianella revoluta</i>  | * <i>Sonchus oleraceus</i>   |
| * <i>Galium murale</i>    | <i>Xanthorrhoea preissii</i> |

**Quadrat 9. *Kunzea* thicket. More correctly *Kunzea glabrescens* Thicket over Very Open Shrubland of *Xanthorrhoea preissii***

<b>Species</b>	<b>Cover (%)</b>	<b>Height (m)</b>
* <i>Arctotheca calendula</i>	<1	Herb
* <i>Hypochaeris glabra</i>	25	Herb
* <i>Isolepis marginatus</i> .	10-30	Herb
<i>Kunzea glabrescens</i>	>70	
* <i>Ornithopus pinnatus</i>	<1	Herb
* <i>Ursinia anthemoides</i>		Herb
* <i>Vulpia bromoides</i>	60	Grass

**OPPORTUNISTIC SPECIES**

\**Aira caryophylla*  
*Austrostipa compressa*  
\**Carpobrotus edulis*  
\**Ehrharta calycina*  
\**Erodium botrys*  
*Melaleuca preissiana*  
*Xanthorrhoea preissii*

In addition to the 9 quadrats established by GHD there were 2 other vegetation units which they did not describe. These are provided below as Quadrat 10 and Quadrat 11.

**Quadrat 10**

**GPS:** (50) 392494E; 6433033N

**Date:** 16<sup>th</sup> October 2012

**Habitat:** Flat plain

**Soil:** Light grey sand

**Rock Type:** None

**Vegetation:** Open Woodland of *Corymbia calophylla* over Open Low Woodland A of *Melaleuca preissiana* over weeds (Muir, 1977)

**Veg. Condition:** Degraded

**Fire Age:** Unknown



Species	Cover %	Height (m)
* <i>Avena barbata</i>	20	<1
* <i>Bromus diandrus</i>	10	<1
* <i>Carpobrotus edulis</i>	20	<1
<i>Corymbia calophylla</i>	10	16
* <i>Ehrharta calycina</i>	50	1.2
<i>Melaleuca preissiana</i>	2	8

**OPPORTUNISTIC SPECIES**

*Kunzea glabrescens*

\**Lotus subbiflorus*

\**Ornithopus pinnatus*

\**Trifolium subterraneum*

**Quadrat 11**

**GPS:** (50) 392856E; 6433291N

**Date:** 16<sup>th</sup> October 2012

**Habitat:** Flat plain

**Soil:** Light grey sand

**Rock Type:** None

**Vegetation:** Low Scrub A to Heath A of *Xanthorrhoea preissii* over weeds (Muir, 1977)

**Veg. Condition:** Degraded

**Fire Age:** 2-3 years



Species	Cover %	Height (m)
* <i>Aira caryophyllea</i>	<1	<1
* <i>Arctotheca calendula</i>	1	<1
<i>Austrostipa compressa</i>	5-20	<1
<i>Burchardia congesta</i>	<1	<1
* <i>Crassula colorata</i>	5	<1
* <i>Ehrharta calycina</i>	25	<1
* <i>Hypochaeris glabra</i>	25	<1
* <i>Vulpia bromoides</i>	25	<1
<i>Xanthorrhoea preissii</i>	25	1.5

**OPPORTUNISTIC SPECIES**

<i>Banksia ilicifolia</i>	* <i>Ehrharta longiflora</i>
* <i>Carpobrotus edulis</i>	<i>Lomandra hermaphrodita</i>
<i>Conyza</i> sp.	* <i>Ursinia anthemoides</i>

### 4.3 Species

An additional 42 species were recorded in October bringing the total number of taxa recorded to 133. Of the 42 extra taxa, 14 were endemic species and 28 were weeds.

VASCULAR PLANT FAMILY	SPECIES
AIZOACEAE	* <i>Carpobrotus edulis</i>
ASPARAGACEAE	<i>Lomandra hermaphrodita</i>
ASTERACEAE	* <i>Cynara cardunculus</i> * <i>Hypochaeris glabra</i> * <i>Lactuca serriola</i> <i>Senecio pinnatifolius</i> * <i>Sonchus asper</i>
CARYOPHYLLACEAE	* <i>Cerastium glomeratum</i>
COMMELINACEAE	<i>Cartonema philydroides</i>
CRASSULACEAE	* <i>Crassula colorata</i>
CYPERACEAE	<i>Schoenus rigens</i>
DROSERACEAE	<i>Drosera menziesii</i>
EUPHORBIACEAE	* <i>Euphorbia peplus</i> * <i>Euphorbia terracina</i>
FABACEAE	<i>Eutaxia virgata</i> * <i>Lotus subbiflorus</i> * <i>Ornithopus pinnatus</i> * <i>Trifolium subterraneum</i>
GERANIACEAE	* <i>Erodium botrys</i> * <i>Geranium molle</i> <i>Geranium solandri</i> <i>Patersonia occidentalis</i>
IRIDACEAE	<i>Cycnogeton lineare</i>
JUNCAGINACEAE	* <i>Lythrum hyssopifolia</i>
LYTHRACEAE	<i>Hypocalymma angustifolium</i>
MYRTACEAE	<i>Caladenia flava</i>
ORCHIDACEAE	* <i>Disa bracteata</i> <i>Pterostylis</i> sp.
POACEAE	* <i>Aira caryophyllea</i> <i>Austrostipa compressa</i> * <i>Avena barbata</i> * <i>Bromus diandrus</i> * <i>Bromus hordeaceus</i> * <i>Cortaderia selloana</i> * <i>Ehrharta longiflora</i> * <i>Holcus lanatus</i> * <i>Lagurus ovatus</i> * <i>Lolium rigidum</i> * <i>Pennisetum clandestinum</i> * <i>Vulpia bromoides</i>
RUBIACEAE	* <i>Galium murale</i>
THYMELIACEAE	<i>Pimelea rosea</i>

## 5. DISCUSSION

The spring survey resulted in an additional 42 taxa being recorded from the site. None of these were threatened or priority flora.

Two additional vegetation units were described for the site. These are:

- Open Woodland of *Corymbia calophylla* over Open Low Woodland A of *Melaleuca preissiana* over weeds, recorded from the southern boundary and the north east boundary; and
- Low Scrub A to Heath A of *Xanthorrhoea preissii* over weeds which was common in the site to the east of Bombay Boulevard but did extend into the western side of Bombay Boulevard.

## 6. REFERENCES

GHD (2012). *Report for Lot 650 Thomas Road, Casuarina*. Unpublished report for H and M Bombara

Muir, B.G. (1977). *Biological Survey of the Western Australian Wheatbelt. Part II: Vegetation and habitat of Bendering Reserve*. Records of the Western Australian Museum, Supplement No. 3



61-25014  
 Bombera Land, Flora and Fauna Assessment  
 Job Number: 61-25014  
 Revision: 0  
 Date: 11 Jun 2012

**Vegetation Types and Survey Site Locations**  
**Figure 2**

328 Adelaide Terrace Perth WA 6006 Australia  
 T 61 8 9222 6222 F 61 8 9222 6555 E perth@ghd.com.au W www.ghd.com.au

**LEGEND**  
 17,500 (at A3)  
 0 37.5 75 150 225 300 375  
 Meters  
 Map Projection: Transverse Mercator  
 Datum: Mean Sea Level 1984, Zone 50  
 North Arrow  
 Study Boundary  
 Quadrant Location  
 Study Boundary  
 Vegetation Types  
 Eucalyptus and Melaleuca Dry Woodland to Woodland  
 Mixed Myrtaceous Closed Shrubland  
 Scaevola  
 Banksia Woodland  
 Highly Degraded/Cleared  
*Corymbia calophylla* Woodland  
*Xanthorrhoea preissii* Scrub

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