

## MODONG NATURE RESERVE AND ADJACENT BUSHLAND, OAKFORD

**Boundary Definition:** protected area/bushland (part taken to cadastre)/conservation wetland boundary (Areas of bushland within the boundaries of the Site are not accurately mapped. The boundary has been drawn to include any unmapped bushland; Areas of bushland within the boundaries of the Site have been recently cleared. The boundary has been drawn to include cleared bushland; Boundary adjusted after vegetation survey and negotiations with the land owner(s) in response to a submission to draft *Perth's Bushplan*.)

### **SECTION 1: LOCATION INFORMATION**

**Bush Forever Site no.** 348

**Area (ha):** bushland 242.0

**Map no.** 65, 66

**Map sheet series ref. no.** 2033-I SE

**Other Names:** part of Jandakot Regional Park

**Local Authorities (Suburb):** Shire of Serpentine-Jarrahdale (Oakford)

**Includes CALM Managed Land:** Reserve 25886 (Conservation of Flora and Fauna)

**System 6 (1983):** M99 area of bushland goes beyond System area boundaries, all bushland described

### **SECTION 2: REGIONAL INFORMATION**

#### **LANDFORMS AND SOILS**

##### **Pinjarra Plain**

Guildford Formation (Qpa: Sc)

##### **Bassendean Dunes**

Bassendean Sands (Qpb: S8)

##### **Bassendean Dunes/Pinjarra Plain**

Bassendean Sands over Guildford Formation (Qpb/Qpa: S10)

##### **Wetlands (within the Bassendean Dunes/Pinjarra Plain)**

Holocene Swamp Deposits (Qrw: Sp1)

#### **VEGETATION AND FLORA**

##### **Vegetation Complexes**

###### **Bassendean Dunes**

Bassendean Complex — Central and South

##### **Floristic Community Types**

###### **Supergroup 2: Seasonal Wetlands**

4 *Melaleuca preissiana* damplands

11 Wet forests and woodlands

###### **Supergroup 3: Uplands centred on Bassendean Dunes and Dandaragan Plateau**

21c Low-lying *Banksia attenuata* woodlands or shrublands

23a Central *Banksia attenuata* — *B. menziesii* woodlands

#### **WETLANDS**

**Wetland Types:** dampland, artificial channel

##### **Natural Wetland Groups**

###### **Bassendean Dunes**

Jandakot (B.3)

**Wetland Management Objectives:** Conservation (111.9ha)

**Swan Coastal Plain Lakes EPP:** none identified

#### **THREATENED ECOLOGICAL COMMUNITIES**

Not assessed

### **SECTION 3: SPECIFIC SITE DETAIL**

**Landscape Features:** vegetated wetland, vegetated uplands

**Vegetation and Flora:** limited survey (part Site — Crook 1980 (Modong Nature Reserve, Keighery, GJ, 1996 (Modong Nature Reserve), Gibson *et al.* 1994 (Modo 01–06), DEP 1999)

### **Structural Units**

Uplands: *Eucalyptus calophylla* Woodland; *Banksia attenuata* Low Woodland; *Banksia attenuata* and *B. ilicifolia* Low Open Forest

Wetlands: *Melaleuca preissiana* and *Banksia attenuata* Low Woodland; *Eucalyptus rudis* and *Melaleuca preissiana* Low Woodland; *Melaleuca preissiana* Low Open Woodland; *Kunzea glabrescens* Closed Tall Scrub; *Pericalymma ellipticum* and *Hypocalymma angustifolium* Open Heath

**Vegetation Condition:** >90% Excellent to Pristine, <10% Very Good to Good (Gibson *et al.* 1994, Trudgen 1990)

**Total Flora:** 197 native taxa (Keighery, GJ, 1996) (estimated <80% expected flora)

**Significant Flora:** *Stylidium mimeticum* (3); *Macarthuria apetala*, *Evandra pauciflora*, *Hensmania turbinata*, *Burchardia bairdii* (most southern population)

**Fauna:** limited survey for birds (AHC 2000 D), limited survey for mammals (2 species) (J. Dell pers. comm.), structured surveys for reptiles (25 species) and amphibians (3 species) (WA Society of Amateur Herpetologists, unpublished). Significant mammal species: Quenda (Friend 1996 D), Grey Kangaroo and Western Brush Wallaby. Significant reptile species: legless lizards (*Pletholax gracilis* and *Pygopus lepidopodus*), Lined Skink (*Lerista lineata*), Swamp Skink (*Acritoscincus trilineatum*), Black Monitor (*Varanus tristis*) and Rosenberg's Monitor (*V. rosenbergi*). Good assemblage of insectivorous and nectarivorous birds (J. Dell pers. comm.).

**Linkage:** adjacent bushland to the north and west; part of Greenway 97 (Tingay, Alan & Associates 1998a); part of a regionally significant fragmented bushland/wetland linkage (Part A, Map 7)

**Other Special Attributes:** majority included in Jandakot Botanic Park Proposal (MfP 1995); 'key site representing the vegetation and habitats typical of the Bassendean Dune System' (Crook 1980)

### **SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE**

Not listed, Indicative place (AHC 2000 D)

### **SECTION 5: SELECTION CRITERIA AND RECOMMENDATIONS**

**Criteria:** Representation of ecological communities, Rarity, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation

**Recommendation:** Part A: Site with Some Existing Protection; the care, control and management of this portion of this Site (Reserve 25886) for conservation purposes within Jandakot Regional Park is endorsed. Part B: Rural Complementary Mechanism (see Table 3, Volume 1).