

## YELLAGONGA REGIONAL PARK, WANNEROO/WOODVALE/KINGSLEY

**Boundary Definition:** protected area/bushland/conservation wetland boundary

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

**Bush Forever Site no.** 299 **Area (ha):** bushland 380.9 (Site also includes open water.)

**Map no.** 27, 28, 34 **Map sheet series ref. no.** 2034–I SW, 2034–II NW

**Other Names:** Contains Lake Joondalup and Lake Goollelal

**Local Authorities (Suburb):** City of Joondalup (Woodvale, Edgewater, Joondalup, Wanneroo, Kingsley)

**Includes CALM Managed Land:** Reserve 31048 (Recreation and Conservation of Flora and Fauna), 21708 (Protection of Flora and Fauna), 43290 (Conservation Park), 21176 (Forestry Purposes Pine Seedling Orchard)

**System 6 (1983):** M7 area of bushland goes beyond System area boundaries, all bushland described

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

#### **LANDFORMS AND SOILS**

##### **Spearwood Dunes**

Sands derived from Tamala Limestone (Qts: S7)

Tamala Limestone (Qtl: LS1, LS2)

##### **Wetlands (within the Spearwood Dunes)**

Holocene Swamp Deposits (Qrw: Sp1)

#### **VEGETATION AND FLORA**

##### **Vegetation Complexes**

Karrakatta Complex — Central and South

Cottesloe Complex — Central and South

##### **Wetlands**

Herdsmen Complex

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

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

S7 Northern woodlands to forests over tall sedgeland alongside permanent wetlands

###### **Supergroup 4: Uplands centred on Spearwood and Quindalup Dunes**

25 Southern *Eucalyptus gomphocephala* — *Agonis flexuosa* woodlands

28 Spearwood *Banksia attenuata* or *B. attenuata* — *Eucalyptus* woodlands

#### **WETLANDS**

**Wetland Types:** lake, sumpland, river

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

###### **Spearwood Dunes**

Yanchep (S.1)

**Wetland Management Objectives:** Conservation (779.7ha), not assessed

**Swan Coastal Plain Lakes EPP:** 638.1ha + 63.7ha + 8.2ha = 710ha (total)

#### **THREATENED ECOLOGICAL COMMUNITIES**

Not assessed, Not determined

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

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

**Vegetation and Flora:** limited survey (DEP 1996 (Yela 01–03), DPUD 1992b, EPA and WAWA 1990, Tauss 1996)

**Structural Units:** mapping (DPUD 1996, EPA and WAWA 1990)

Uplands: *Eucalyptus gomphocephala* Closed Forest to Woodland; *Eucalyptus gomphocephala* Tall Open Forest over *Banksia grandis* Low Open Forest; *Eucalyptus calophylla* Closed to Open Forest; *Banksia attenuata* and *Eucalyptus marginata* Woodland; Mixed *Eucalyptus marginata*, *E. calophylla* and *Banksia attenuata* Open Forest

Wetlands: *Eucalyptus rudis* Scattered Open Forest to Low Woodland; *Melaleuca raphiophylla* Low Open to Low Closed Forest; *Melaleuca raphiophylla* and *Banksia littoralis* Open Forest; Closed to Open Sedgeland dominated by *Schoenoplectus validus*, *Baumea articulata*; *B. juncea*, \**Typha orientalis*, *Juncus pallidus* and *Lepidosperma longitundinale* or combinations of *Schoenoplectus validus* and *Baumea articulata*; Mixed Herbland (on dry lake bed)

**Scattered Native Plants:** not assessed

**Vegetation Condition:** >75% Very Good to Excellent, <25% Good to Degraded, with areas of severe localised disturbance

**Total Flora:** 217 native taxa, 103 weed taxa (compiled from DEP 1996, Tauss 1996)

**Significant Flora:** *Jacksonia sericea* (3), *Conostylis bracteata* (3); *Persicaria lapathifolia* (in Herblands on dry lake bed only record in the PMR), *Hibbertia cuneiformis* (most likely a weed, not known to occur naturally north of Site 377), *Amyema miquelii* (uncommon on the Plain), *Lechenaultia linarioides*, *Ricinocarpus glaucus*

**Fauna:** multiple surveys for birds (122 species) (Bamford and Bamford 1990; RAOU 1996 D, 86 visits). Significant populations of Blue-billed Duck, Musk Duck, Hardhead, Splendid and Variegated fairy-wrens, Broad-tailed, Western and Yellow-rumped Thornbills, Weebill, Scarlet Robin, Golden Whistler and Grey Shrike-thrush. Significant bird species: category 1 (3), category 2 (5), category 3 (17) and category 4 (8). Limited survey for native mammals (6), reptiles and amphibians (6) (DPUD 1991). Significant mammal species: Western Brush Wallaby and Echidna; Quenda (Friend 1996 D). Significant native fish species: Native Goby (*Pseudogobius olorum*) and Pygmy Perch (*Edelia vittata*) (WAWA 1995)

**Linkage:** adjacent bushland to the north (Site 383, across road), east (Site 164, across road) and west; part of Greenways 4, 2, 5 (Tingay, Alan & Associates 1998a); part of a regionally significant contiguous bushland/wetland linkage (Part A, Map 7)

**Other Special Attributes:** recommended for protection in study of City of Wanneroo (Trudgen 1996); included within Yellagonga Regional Park (DPUD 1992b)

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

Directory of Important Wetlands in Australia; Entered in the Register of the National Estate; Location for JAMBA/CAMBA species; subject to protection under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*

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

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

**Recommendation:** Site with Some Existing Protection; the care, control and management of this Site for conservation purposes within Yellagonga Regional Park is endorsed (see Table 3, Volume 1).