

## NORTH LAKE AND BIBRA LAKE, NORTH LAKE/BIBRA LAKE

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

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

**Bush Forever Site no.** 244 **Area (ha):** bushland 128.2 (Site also includes open water.)

**Map no.** 52, 53, 58, 59

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

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

**Local Authorities (Suburb):** City of Cockburn (North Lake, Bibra Lake)

**System 6 (1983):** Part M93 Part System area bushland, only bushland described

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

#### **LANDFORMS AND SOILS**

##### **Bassendean Dunes**

Bassendean Sands (Qpb: S8)

##### **Spearwood Dunes**

Sands derived from Tamala Limestone (Qts: S7)

##### **Wetlands (within the Spearwood/Bassendean Dune interface)**

Holocene Swamp Deposits (Qhw: Mps)

#### **VEGETATION AND FLORA**

##### **Vegetation Complexes**

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

Bassendean Complex — Central and South

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

Karrakatta Complex — Central and South

###### **Wetlands**

Herdsmen Complex

**Floristic Community Types:** \*not sampled, type inferred

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

11 Wet forests and woodlands

\*12 *Melaleuca teretifolia* and/or *Astartea* aff. *fascicularis* shrublands

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

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

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

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

#### **WETLANDS**

**Wetland Types:** lake, sumpland

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

###### **Spearwood—Bassendean interface**

Bibra (S/B.1)

**Wetland Management Objectives:** Conservation (55.75ha), Resource Enhancement, Multiple Use

**Swan Coastal Plain Lakes EPP:** 3ha + 6.6ha + 31.4ha = 41ha (total)

#### **THREATENED ECOLOGICAL COMMUNITIES**

Not assessed

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

#### **North Lake**

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

**Vegetation and Flora:** limited survey (part Site — DEP 1996 (Beel 01–03), EPA and WAWA 1990, Newman 1976, Weston 1993)

**Structural Units:** mapping (EPA and WAWA 1990, Cockburn Wetlands Committee 1976)

Uplands: *Eucalyptus marginata* Open Forest; *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* Low Open Forest, with emergent *Eucalyptus marginata*

Wetlands: *Eucalyptus rudis*, *Melaleuca preissiana*, *M. raphiophylla* and *Banksia ilicifolia* Forest to Woodland, with *Kunzea glabrescens*, *Acacia saligna* and *Agonis linearifolia*; *Melaleuca teretifolia* Tall Shrubland; *Baumea articulata* and \**Typha orientalis* Sedgeland

**Vegetation Condition:** >60% Very Good to Excellent, >30% Good to Degraded, with areas of severe localised disturbance (Weston 1993)

**Total Flora:** not known

**Significant Flora:** Weston 1993 — *Aotus cordifolia* (3); *Jacksonia gracilis*, *Villarsia violifolia*

**Fauna:** multiple surveys for birds (71 species) (RAOU 1996 D, 16 visits) (Newman 1976). Significant populations of Australasian Shoveler, Hardhead, Blue-billed, Musk, and Pink-eared Ducks. Significant bird species: category 1 (1), category 3 (9) and category 4 (4). Important summer refuge for migratory JAMBA/ CAMBA waders (AHC 2000 D). Significant mammal species: Quenda (Friend 1996 D).

Only known urban wetland supporting freshwater sponges (AHC 2000 D)

**Linkage:** adjacent bushland to the north (across road); part of Greenways 82, 90 (Tingay, Alan & Associates 1998a); part of a regionally significant contiguous bushland/wetland linkage (Part A, Map 7)

#### **Bibra Lake**

**Landscape Features:** open water, permanent salt lake, vegetated wetland, vegetated uplands

**Vegetation and Flora:** limited survey (EPA and WAWA 1990, Keighery, BJ, 1996a, Newman 1976, Weston 1993)

**Structural Units:** mapping (EPA and WAWA 1990, Newman 1976)

Uplands: *Banksia attenuata*, *B. menziesii* and *Allocasuarina fraseriana* Low Open Forest, with *Eucalyptus marginata*

Wetlands: *Eucalyptus rudis*, *Melaleuca preissiana* and *M. raphiophylla* Open Forests; *Melaleuca teretifolia* Low Closed Forest or Closed Tall Scrub; Closed Sedgeland

**Remnant Vegetation:** not assessed

**Vegetation Condition:** >20% Good to Very Good, <80% Degraded, with areas of severe localised disturbance

**Total Flora:** not known

**Significant Flora:** *Dodonaea hackettiana* (4)

**Fauna:** multiple survey for birds (112 species) (RAOU 1996 D, 56 visits). Significant populations of Australasian Shoveler, Hardhead, Blue-billed, Musk, and Pink-eared ducks. Significant bird species: category 1 (1), category 2 (4), category 3 (14) and category 4 (8). Significant mammal species: Quenda (Friend 1996 D)

**Linkage:** bushland linkage to north (across road), south (Site 254, across road) and west (across road); part of Greenway 90 (Tingay, Alan & Associates 1998a)

**Other Special Attributes:** included in Beelihar Regional Park Proposal (DPUD 1992a)

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

Entered in the Interim List of the Register of the National Estate; 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, Scientific or evolutionary importance, General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation, Criteria not relevant to determination of regional significance, but which may be applied when evaluating areas having similar values

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