

SITE DESCRIPTION: JF5 - BUNGENDORE PARK

Boundary Definition: Reserve boundary as per CAD Reserves GIS Shapefile (DEC 2006)

SECTION 1: LOCATION INFORMATION

Perth Regional Plant Biodiversity Jarrah Forest Reference Site no. JF5 **Area (ha):** 498 ha

Map no. Bungendore Park maps 1, 2 and 3

Other Names: Reserve A4561

Local Authorities (Suburb): City of Armadale

SECTION 2: REGIONAL INFORMATION

LANDFORMS (HAVEL AND MATTISKE 2000)

Dwellingup (D) = Darling Plateau – Lateritic uplands

Murray (My) = Darling Plateau – Moderately incised valleys

Darling Scarp (DS) = Darling Plateau – Rocky slopes

VEGETATION AND FLORA (HAVEL AND MATTISKE 2000)

Vegetation Complexes (Map 1)

Dwellingup 2 (D2)

Murray 1 (My1)

Darling Scarp (DS)

Ecological Vegetation Systems

JP4, NM6, RS4

WETLANDS

Wetland Types: Cooliaberra Spring (Neerigen Brook runs within 100m of the northern boundary and Wungong Brook, approx 2km south of the southern boundary.)

THREATENED ECOLOGICAL COMMUNITIES

None listed in TEC GIS Shapefile (DEC 2006)

SECTION 3: SPECIFIC SITE DETAIL

Landscape Features: My1 area (northern edge of reserve) is a major valley moderately incised into the humid zone of the northern Darling Plateau with red brown earth and red and yellow duplex soils. D2 (the major landform unit of the reserve) can be described as Upland ridges and spurs in the subhumid zone of the northern Darling Plateau with gravely duplex soils and lateritic outcrops. DS area (edge of reserve) can be described as steep slopes in the semi arid to humid zone with numerous granitic and doleritic outcrops and shallow skeletal soils (Havel and Mattiske 2000).

Vegetation and Flora: Jarrah / Marri Woodland high on D2 grading down through open Wandoo woodlands and shrublands to Blackbutt/Flooded Gum woodlands closer riparian areas. Granite outcrops contain lithic complexes ranging from herblands to heathlands and medium shrublands (Molloy 2007).

Structural Units (Havel and Mattiske 2000)

JP4= Dominant vegetation is Open Forest of *Eucalyptus marginata* subsp. *marginata* and *Corymbia calophylla* with second storey of *Allocasuarina fraseriana*, *Banksia grandis* and *Persoonia longifolia*. Shrub and herb storey consists of *Adenanthos barbiger*, *Leschenaultia biloba*, *Hakea ruscifolia*, *Hovea chorizemifolia*, *Styphelia tenuiflora* on the sandier soils and *Leucopogon propinquus*, *Leucopogon capitellatus* and *Hakea lissocarpa* on the loamier soils.

NM6 = Vegetation ranges from Woodland of *Eucalyptus patens* over *Banksia seminuda*, *Callistachys lanceolata* and *Agonis flexuosa* on valley floor to Open Forest of *Corymbia calophylla* and *Eucalyptus marginata* subsp. *marginata* with second storey of *Banksia grandis* and *Persoonia longifolia* on slopes. Shrub and herb storey of *Grevillea diversifolia*, *Trymalium floribundum*, *Hypocalymma cordifolium*, *Lepidosperma tetraquetrum* and *Chorizema ilicifolium* on valley floor to *Bossiaea aquifolium* subsp. *aquifolium*, *Leucopogon verticillatus*, *Leucopogon capitellatus*, *Macrozamia riedlei*, *Acacia urophylla* and *Pteridium esculentum* on slopes.

Rs4= Vegetation ranges from Lithic Complex, Herbfield, and Heath to Woodland of *Corymbia calophylla*, *Eucalyptus wandoo*, *Eucalyptus laeliae* and *Allocasuarina heugeliana*. Common shrub and herb species are *Borya sphaerocephala*, *Grevillea bipinnatifida*, *Hakea erinacea* and *Macrozamia riedlei* on the loamier soils.

Vegetation Condition: Not mapped. Jarrah Dieback *Phytophthora cinnamomi* (although currently under management) has affected much of this reserve. The effects of a high intensity/frequency fire regime are evident.

Total Flora: 352 species, of which 33 are introduced. (Lewis 1999).

Significant Flora: *Thelymitra stellata* (DRF), *Calothamnus rupestris* (P4)

Fauna: A total of 82 bird species have been recorded from Bungendore Park (Johnstone 1996).

Western Grey Kangaroos *Macropus fuliginosus* has been observed on site as have Echidnas *Tachyglossus aculeatus*, Mardo Antechinus *flavipes*, Brushtail Possum *Trichosurus vulpecula*, Brushtailed Phascogale *Phascogale tapoatafa* and Quenda *Isoodon obesulus*. Chudich *Dasyurus geoffroyi* has found in the vicinity (Stephens 1997). Numerous reptile, frog and invertebrate species have been observed in the reserve, but species have not been listed (Stephens 1997)

Linkage: Direct linkage to road reserves, links to Neerigen Brook and Wungong Brook riparian reserves and remnants in surrounding private property. Links directly to forest production areas, water reserves and the Darling Range Regional Park.

Other Special Attributes: The area was populated by the Whadjuk, a local group of Noongar Aboriginal people who lived in the area south of the Canning River. Bungendore Park lies just off the edge of the main walk track linking Perth to Pinjarra. Aboriginal people from many groups moved along this track as part of their seasonal migration. The Bungendore Park area has therefore been historically exposed to a comparatively intensive fire regime (Lewis 2003)

SECTION 4: INTERNATIONAL AND NATIONAL SIGNIFICANCE

None listed.

References

Havel, J.J. and Mattiske, E.M. (2000) Vegetation mapping of South West Forest Regions of Western Australia. Department of Conservation and Land Management, Perth.

Johnstone, R. E., (1996) Birds of Bungendore Park: Bedforddale, Western Australia. Bungendore Park Management Committee, Armadale WA

Lewis, J., (2003) Plant Regeneration following Fire in Bungendore Park, Bedforddale, Western Australia. The Western Australian Naturalist, Vol. 24/1, pp37-72

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Molloy, S., (2007) Jarrah forest reference site field notes. Northern Transect. Unpublished.

Stephens, L., (1997) A Walk With Time, The Bungendore Park Story. Bungendore Park Management Committee, Armadale WA