

# LAND RESOURCES of part of LITCHFIELD NATIONAL PARK

Edition 2/10 - May 2010

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## BIBLIOGRAPHIC REFERENCE:

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## TECHNICAL REFERENCES:

National Committee on Soil and Terrain (2009) AUSTRALIAN SOIL and LAND SURVEY FIELD HANDBOOK (3rd Edition) National Committee on Soil and Terrain (CSIRO Publishing, Melbourne)

Isbell R.F. (2002) The AUSTRALIAN SOIL CLASSIFICATION (Revised Edition) (CSIRO Publishing, Melbourne)

## LAND UNIT DESCRIPTIONS

### PLATEAUX

- 1a1** Plateau surface; flat to gently undulating plateau surface; <1.5% slope. Kandosols. Red earths; well drained. Eucalyptus miniata and E. tetradonta tall open woodland/forest with Erythrophloeum chlorostachys and Livistona humilis; annual grass layer
- 1a2** Plateau surface; flat to gently undulating plateau surface; <1.5% slope. Kandosols. Gravelly red earths; well drained. Eucalyptus miniata and E. tetradonta tall open woodland with Erythrophloeum chlorostachys. Terminalia latipes, L. humilis and Pandanus spiralis; annual grass layer
- 1a3** Plateau surface; flat to gently undulating plateau surface; <1.5% slope. Rudosols. Lithosols; well drained. Jacksonia dilatata and Calytrix exstipulata very tall sparse shrubland with mixed Acacia spp. and Grevillea spp.; sparse perennial grass layer
- 1a4** Plateau surface; flat to gently undulating plateau surface; <2% slope. Tenosols. Red earthy sands; rapidly drained. Eucalyptus tetradonta tall open woodland; sparse T. latipes, J. dilatata, Acacia spp. and Grevillea spp. understorey; annual/perennial grass layer
- 1a5** Plateau surface; flat to gently undulating plateau surface; <2% slope. Tenosols. Yellow earthy sands; rapidly drained. Petalostigma pubescens, Jacksonia dilatata, Grevillea spp. and Melaleuca spp. Very tall sparse shrubland; variable annual/perennial grass layer
- 1c** Plateau surface; outlying plateau remnants; <3% slope. Rudosols. Lithosols; well drained. Eucalyptus miniata and E. tetradonta tall open woodland with Erythrophloeum chlorostachys, Terminalia latipes, L. humilis and Pandanus spiralis; annual grass layer

### ESCARPMENTS

- 2a** Sideslopes; gently inclined upper slopes; <10% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus miniata, E. tetradonta and Erythrophloeum chlorostachys mid high open woodland to tall woodland; minor Eucalyptus phoenicea, C. polysciada and Pandanus spiralis; annual/perennial grass layer
- 2b** Sideslopes; steep slopes; 20-35% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus miniata, E. tetradonta, Erythrophloeum chlorostachys and C. porrecta tall open woodland; sparse mixed annual/perennial grass layer
- 4c1** Steep hills and slopes; steep slopes; <50% slope. Hydrosols. Lithosols; very poorly drained. Calophyllum soulatrii, C. brachiata, M. benthamiana and Psycdrax odorata tall closed forest
- 4c2** Steep hills and slopes; steep slopes; <50% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus brachyandra and G. megasperma low open woodland (steeper slopes - C. exstipulata, C. brownii, J. dilatata and L. humilis); minor annual grass layer

### HILLS

- 4a** Steep hills and slopes; high hills; <45% slope. Rudosols. Lithosols; rapidly drained. Terminalia latipes, B. obovata and G. megasperma mid-high open woodland with minor E. miniata, E. tetradonta and Erythrophloeum chlorostachys; sparse variable grass layer
- 4b** Steep hills and slopes; low hills; <40% slope. Rudosols. Lithosols; rapidly drained. Terminalia latipes, B. obovata and G. megasperma mid-high open woodland with E. tectifica and C. dichromophloia; sparse variable grass layer

### LOW HILLS

- 3a1** Secondary plateau surface; rolling plateau surface; <20% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus miniata, E. tetradonta and C. intratropica tall woodland, OR minor Calytrix exstipulata, J. dilatata, Grevillea spp. and Acacia spp. very tall sparse shrubland; annual grass and sedge layer
- 3a2** Secondary plateau surface; rolling plateau surface; <10% slope. Tenosols. Siliceous and earthy sands; rapidly drained. Eucalyptus miniata, E. tetradonta and Erythrophloeum chlorostachys tall open woodland; sparse annual grass/sedge layer
- 3a3** Secondary plateau surface; rolling plateau surface; <10% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus miniata, E. tetradonta, C. dichromophloia and Terminalia ferdinandiana mid high to tall woodland; annual grass layer
- 3a4** Secondary plateau surface; dissected rolling plateau surface; <15% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus brachyandra, L. humilis and G. megasperma low open woodland; sparse annual/perennial grass layer

### RISES

- 5a** Undulating lowlands; low rises; <5% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus miniata and E. tetradonta mid-high to tall open woodland with Erythrophloeum chlorostachys, C. polysciada and T. latipes; variable grass layer

### PLAINS

- 5b1** Undulating lowlands; gently undulating lowlands; <1% slope. Kandosols. Red earths; well drained. Corymbia grandifolia, E. tectifica, C. polysciada and Erythrophloeum chlorostachys mid-high open woodland; dense annual grass layer
- 5b2** Undulating lowlands; gently undulating lowlands; <1% slope. Kandosols. Yellow earths; moderately well drained. Mixed Eucalyptus spp. mid-high woodland with Themeda triandra, Heteropogon triticus, Alloterospis semiolata grassland understorey
- 5b3** Undulating lowlands; gently undulating lowlands; <1.5% slope. Hydrosols. Grey earths; imperfectly drained. Corymbia bella, C. foelschiana and Erythrophloeum chlorostachys mid-high open woodland
- 5c** Undulating lowlands; gently undulating sand plains; <3% slope. Tenosols. Siliceous sands; well drained. Mixed Eucalyptus spp. mid-high to tall open woodland; moderately dense perennial grass layer
- 5d** Undulating lowlands; footslopes; <3% slope. Rudosols. Lithosols; rapidly drained. Eucalyptus tetradonta and Erythrophloeum chlorostachys with C. foelschiana, L. humilis and X. paradoxus mid-high to tall open woodland; perennial grass layer

### DRAINAGE SYSTEMS

- 1b1** Plateau surface; drainage depressions; <1% slope. Hydrosols. Grey earths; very poorly drained. Melaleuca spp. and L. lactifolius mid high open woodland with a Cynodon dactylon and Xyris complanata sparse grassland
- 1b2** Plateau surface; drainage depressions; <2% slope. Hydrosols. Lithosols; poorly drained. Tall sparse tussock grassland; isolated trees L. lactifolius, Melaleuca spp.
- 1b3** Plateau surface; drainage depressions; <3% slope. Hydrosols. Grey earths and siliceous sands; poorly drained. Melaleuca viridiflora, A. symphyocarpa and L. lactifolius mid high to tall open woodland with a Cynodon dactylon and Sorghum plumosum sparse grassland
- 1b4** Plateau surface; drainage depressions; <3% slope. Hydrosols. Lithosols; poorly drained. Sorghum plumosum very tall grassland; isolated trees P. spiralis
- 3b** Secondary plateau surface; drainage depressions; <2% slope. Hydrosols. Siliceous sands; poorly drained. Melaleuca nervosa, P. spiralis and G. pteridifolia mid high open woodland; dense annual grass/sedge layer
- 3c** Secondary plateau surface; seepage areas; <10% slope. Hydrosols. Siliceous sands; very poorly drained. Tall sparse annual grassland or sedgeland
- 5e** Undulating lowlands; seepage areas; <10% slope. Hydrosols. Humic gleys; very poorly drained. Fimbristylis nutans, E. aurea and M. rotbovillensis mid-high closed sedgeland/grassland
- 6a** Drainage floors and depressions; drainage depressions; <2% slope. Hydrosols. Grey earths; poorly drained. Melaleuca viridiflora and/or Lophostemon lactifolius mid-high open woodland to tall open forest; sparse perennial grass/sedge layer
- 6b1** Drainage floors and depressions; drainage floors; <1% slope. Hydrosols. Grey earths; poorly drained. Lophostemon lactifolius, M. viridiflora with minor C. polycarpa low woodland; annual/perennial grass layer
- 6b2** Drainage floors and depressions; drainage floors; <1% slope. Hydrosols. Grey earths; poorly drained. Mixed spp. tall closed tussock grassland/sedgeland
- 6b3** Drainage floors and depressions; drainage floors; <1% slope. Hydrosols. Yellow podzolics; poorly drained. Low sparse perennial grassland/sedgeland
- 6c1** Drainage floors and depressions; sandy drainage floors; <1% slope. Hydrosols. Siliceous sands; poorly drained. Mixed annual/perennial spp. tall closed grassland; minor areas of Melaleuca nervosa, P. spiralis, G. pteridifolia mid high open woodland
- 6c2** Drainage floors and depressions; sandy drainage floors; <1% slope. Hydrosols. Siliceous sands; imperfectly drained. Melaleuca nervosa, L. lactifolius, G. pteridifolia and P. spiralis mid-high open woodland; dense perennial grass/sedge layer
- 7a** Stream channels and levees; stream channels. Hydrosols. Siliceous sands; very poorly drained. Melaleuca spp. with minor L. lactifolius and L. madidum subsp. Sativum tall open forest; minor areas of Carpentaria acuminata, G. schlechteri, F. racemosa and P. odorata tall closed forest
- 7b** Stream channels and levees; levees; <1% slope. Hydrosols. Siliceous sands; rapidly drained. Melaleuca nervosa, G. pteridifolia, J. dilatata, C. exstipulata and Acacia spp. very tall sparse shrubland; minor perennial grass layer

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## GENERAL FEATURES

- Limit of land unit survey
- Cadastral boundary
- Park / Reserve
- Principal road
- Secondary road
- Local road / track
- Drainage line
- Spot height

