## LAND UNIT DESCRIPTIONS

### PLATEAUX

- **1a** Gently undulating basalt plateaux, minor rock outcrop and abundant surface rock. Moderately deep cracking clay soils (Grey, Brown and Black Vertosols). Annual sorghum/speargrass and plume sorghum tall tussock grasslands. (Annual Sorghum sp. tall tussock grassland)
- **1a1** Gentle to undulating basalt plateaux, rock outcrop. Shallow soils (Leptic Rudosols). Bloodwood OR Terminalia low open woodland with whitegrass, annual sorghum/speargrass and plume sorghum grasslands. (Corymbia terminalis OR Terminalia canescens low open woodland)
- **1a2** Gently undulating basalt plateaux. Very shallow soils (Leptic Rudosols). Soft spinifex grasslands. (Triodia sp. mid hummock grassland)
- **1d1** Limestone plateaux and mesas, abundant rock outcrop and pavement. Very shallow calcareous soils. Hard spinifex and limestone spinifex low grasslands. (Triodia roscida and Triodia wiseana low hummock grassland)
- **1f** Gently undulating lateritic plateaux, abundant rock outcrop in some areas. Shallow red earths (Shallow Red Kandosols). Variable barked bloodwood OR Snappy gum low open woodland with soft spinifex grasslands. (Corymbia dichromophloia OR Eucalyptus brevifolia low open woodland)

### SIDESLOPES

- **2a** Steep basalt escarpments and sideslopes. Shallow red structured soils (Shallow Red Chromosols). Bloodwood and mixed species low open woodland with annual sorghum/speargrass grasslands. (Corymbia terminalis mixed species low open woodland)
- **2a1** Steep basalt escarpments and sideslopes. Very shallow soils (Leptic Rudosols). Spinifex grasslands. (Triodia sp. low hummock grassland)
- **2g** Steep sandstone scarps. Very shallow soils (Leptic Rudosols). Darwin box low open woodland with annual sorghum/speargrass grasslands. (Eucalyptus tectifica low open woodland)

### HILLS

- **3a2** Steep basalt hills including mesas, abundant rock outcrop and surface stone. Very shallow soils (Leptic Rudosols). Soft spinifex grasslands. (Triodia spp. mid hummock grassland)

### LOW HILLS

- **4a3** Undulating low basalt hills, abundant rock outcrop. Very shallow soils (Leptic Rudosols). Snappy gum low open woodland with spinifex or whitegrass grasslands. (Eucalyptus brevifolia low open woodland)
- **4a6** Undulating to rolling basalt low hills and mesas. Very shallow soils (Leptic Rudosols). Soft spinifex grasslands. (Triodia pungens mid hummock grassland)
- **4d1** Undulating to steep limestone low hills, abundant rock outcrop and pavement. Shallow soils (Red Kandosols). Bloodwood and Common hakea low open woodland with hard spinifex grasslands. (Corymbia terminalis and Hakea arborescens low open woodland)
- **4g1** Undulating and steep low sandstone hills, areas of abundant rock outcrop. Very shallow soils (Leptic Rudosols). Snappy gum and Terminalia low open woodland OR Snappy gum and Variable barked bloodwood low open woodland with spinifex grasslands. (Eucalyptus brevifolia and Terminalia canescens low open woodland OR Eucalyptus brevifolia and Corymbia dichromophloia low open woodland)

### RISES

- **5a1** Undulating stony basalt rises, rock outcrop in some areas. Very shallow soils (Leptic Rudosols). Snappy gum low open woodland with soft spinifex grasslands. (Eucalyptus brevifolia low open woodland)
- **5a1** Gently to undulating basalt rises, isolated mesas, breakaways and footslopes. Very shallow soils (Leptic Rudosols). Snappy gum and Lancewood low open woodland with spinifex grasslands. (Eucalyptus brevifolia and Acacia shirleyi low open woodland)
- **5a7** Gently to undulating basalt rises, abundant surface gravel. Shallow structured red soils (Red Dermosols). Silver box and Bloodwood low open woodland OR Snappy gum low open woodland with whitegrass, golden beard grass, blackspear grass and annual sorghum grasslands. (Eucalyptus pruinosa and Corymbia terminalis low open woodland OR Eucalyptus brevifolia low open woodland)
- **5a10** Gently to undulating basalt rises, abundant surface gravel. Moderately deep structured red soils (Red Dermosols). Mixed tussock grasslands (golden beard grass, limestone grass, wiregrass, whitegrass and annual sorghum/speargrass). (Mixed spp. low to mid tussock grassland)
- **5a14** Gently to undulating basalt rises. Very shallow soils (Leptic Rudosols). Turpentine wattle sparse shrubland OR Turpentine wattle open shrubland with soft spinifex grasslands. (Acacia lysiphloia mid sparse shrubland OR Acacia lysiphloia mid open shrubland)
- **5a17** Gently to rolling basalt rises. Shallow red structured soils (Red and Brown Dermosols). Mixed tussock grasslands (bluegrass, golden beard grass, whitegrass, annual sorghum/speargrass and limestone grass). (Mixed spp. low to mid tussock grassland)
- **5a18** Gently to rolling gravelly basalt rises. Shallow red structured soils (Red Dermosols). Soft or Hard spinifex grasslands. (Triodia sp. low to mid hummock grassland)
- **5d4** Gentle to undulating limestone rises, rock outcrop. Very shallow soils (Leptic Rudosols). Snappy gum low open woodland OR Silver box low open woodland with whitegrass, wiregrass and limestone grass grasslands. (Eucalyptus brevifolia low open woodland OR Eucalyptus pruinosa low open woodland)
- **5d7** Undulating limestone rises including incised drainage lines, rock outcrop. Shallow calcareous soils (Calcarosols). Acacia sparse shrubland. (Acacia sp. mid to tall sparse shrubland)
- **5d8** Gentle to undulating limestone rises, areas with extensive rock outcrop or pavement. Very shallow soils (Leptic Rudosols). Bloodwood low open woodland with annual sorghum/speargrass or hard spinifex grasslands. (Corymbia terminalis low open woodland)
- **5f1** Gentle to undulating gravelly lateritic rises, scarps and sideslopes. Shallow red earths (Red Kandosols). Snappy gum low open woodland with spinifex grasslands. (Eucalyptus brevifolia low open woodland)
- **5f2** Gentle to undulating gravelly lateritic rises. Shallow red earths (Red Kandosols). Spinifex grasslands. (Triodia sp. low to mid open hummock grassland)
- **5g1** Gentle to undulating sandstone rises, areas of abundant rock outcrop. Very shallow soils (Leptic Rudosols and Tenosols). Snappy gum low open woodland with spinifex grasslands. (Eucalyptus brevifolia low open woodland)
- **5g3** Gentle to undulating sandstone rises; rock outcrop. Very shallow soils (Leptic Rudosols). Soft spinifex grasslands. (Triodia sp. mid open hummock grassland)
- **5g6** Gently undulating gravelly sandstone rises. Very shallow soils (Leptic Rudosols). Silver box low open woodland with annual sorghum/speargrass and spinifex grasslands. (Eucalyptus pruinosa low open woodland)

### PLAINS

- **6a** Gently undulating basalt plains. Deep grey cracking clays (Grey, Red, Brown and Black Vertosols). Mixed tussock grassland (native couch, golden beard grass, feathertop wiregrass, curly bluegrass, flinders and mitchell grasses). (Mixed spp. low to mid tussock grassland)
- **6a7** Level to gently undulating basalt plains including drainage lines and flats. Moderately deep red structured soils (Red Dermosols). Mixed tussock grasslands (limestone grass, golden beard grass, black speargrass, whitegrass, native couch and wiregrasses). (Mixed spp. low tussock grassland)
- **6a8** Level to gently undulating basalt plains. Moderately deep red structured soils (Red Dermosols). Bloodwood and Silver box low open woodland with whitegrass, black speargrass mixed grasslands. (Corymbia terminalis and Eucalyptus pruinosa low open woodland)
- **6a10** Level to gently undulating basalt plains. Shallow red structured soils (Red Dermosols). Spinifex grasslands. (Triodia sp. low hummock grassland)
- **6a11** Level to gently undulating basalt plains. Moderately deep structured or cracking clays (Red and Brown Dermosols). Mixed tussock grasslands (bunched kerosene grass, curly bluegrass, limestone grass, spinifex and whitegrass). (Mixed spp. low tussock grassland)
- **6a12** Level to gently undulating basalt plains and minor rises. Deep cracking clays and structured soils (Brown, Black and Grey Vertosols). Mixed sparse and open tussock grasslands (feathertop wiregrass, golden beard grass, silky browntop, curly bluegrass and native millet). (Mixed spp. low sparse and open tussock grassland)
- **6c** Level to gently undulating colluvial plains. Moderately deep brown structured soils (Brown and Grey Dermosols). Mixed tussock grasslands (native couch, feathertop wiregrass, annual sorghum/speargrass, golden beard grass). (Mixed spp. low to mid tussock grassland)
- **6c5** Level to gently undulating colluvial plains. Moderately deep red earths (Red Kandosols). Glossy leaved box low open woodland OR Snappy gum and Variable barked bloodwood low open woodland with golden beard grass, Silky browntopand spinifex grasslands. (Eucalyptus chlorophylla low open woodland OR Eucalyptus brevifolia and Corymbia dichromophloia low open woodland)
- **6c6** Level to gently undulating colluvial plains and fans. Shallow earths (Red and Brown Kandosols). Glossy leaved box and Snappy gum low open woodland with soft spinifex grasslands. (Eucalyptus chlorophylla and Eucalyptus brevifolia low open woodland)
- **6c7** Colluvial plains intermixed with drainage areas. Moderately deep red earths (Red and Brown Kandosols). Silver box low open woodland with mixed silky brown top, golden beard grass grasslands. (Eucalyptus pruinosa low open woodland)
- **6c15** Level to gently undulating colluvial plains. Deep red structured soils (Red Dermosols). Snappy gum low open woodland with spinifex grasslands or mixed grasslands. (Eucalyptus brevifolia low open woodland)
- **6c16** Level to gently undulating colluvial plains, abundant surface gravel. Deep red soils (Red Dermosols). Soft spinifex grasslands. (Triodia sp. mid hummock grassland)
- **6c20** Colluvial fringes and low rises within relict alluvial plains. Moderately deep brown earths (Brown Kandosols). Coolibah low open woodland with mixed grasslands. (Eucalyptus microtheca low open woodland)
- **6d** Level to gently undulating limestone plains, loose surface stone. Deep cracking soils (Grey and Black Vertosols). Mixed tussock grasslands (silky brown top, feathertop wiregrass, mitchell grasses, curly bluegrass). (Mixed spp. low to mid tussock grassland)
- **6d7** Level to gently undulating limestone plains, rock outcrop. Shallow calcareous soils (Shallow Calcarosols). Bloodwood low open woodland OR Glossy leaved box low open woodland with limestone spinifex grasslands. (Corymbia terminalis low open woodland OR Eucalyptus chlorophylla low open woodland)
- **6d8** Level to gently undulating limestone plains. Moderately deep red earths (Red Kandosols). Bloodwood and Silver box low open woodland OR Bloodwood low open woodland with spinifex grasslands. (Corymbia terminalis and Eucalyptus pruinosa low open woodland OR Corymbia terminalis low open woodland)
- **6d9** Level to gently undulating limestone plains. Shallow cracking and non cracking soils (Shallow Calcarosols). Mixed tussock grasslands. (Mixed spp. low tussock grassland)
- **6d15** Level to gently undulating limestone plains. Shallow brown cracking clays (Shallow Brown and Grey Vertosols). Bloodwood mixed spp. low open woodland with mixed grasslands. (Corymbia terminalis mixed spp. low open woodland)
- **6f** Level to gently undulating lateritic plains. Shallow red earths (Shallow Red Kandosols). Variable barked bloodwood low open woodland OR Variable barked bloodwood and Snappy gum low open woodland with spinifex grasslands. (Corymbia dichromophloia low open woodland OR Corymbia dichromophloia and Eucalyptus brevifolia low open woodland)
- **6f1** Lateritic lowland plains including drainage areas. Deep brown earths (Brown Kandosols). Darwin box low open woodland OR Silver box mixed spp. low open woodland with mixed grasslands. (Eucalyptus tectifica low open woodland OR Eucalyptus pruinosa mixed spp. low open woodland)
- **6f3** Lateritic lowland plains including drainage areas. Moderately deep red earths (Red and Brown Kandosols). Glossy leaved box low open woodland OR Snappy gum and Variable barked bloodwood low open woodland with mixed grasslands. (Eucalyptus chlorophylla low open woodland OR Eucalyptus brevifolia and Corymbia dichromophloia low open woodland)
- **6f4** Level to gently undulating lateritic plains. Moderately deep red earths (Red Kandosols). Spinifex grasslands. (Triodia sp. mid hummock grassland)
- **6f5** Level to gently undulating lateritic plains. Moderately deep red earths (Red Kandosols). Turpentine wattle sparse to open shrubland with soft spinifex grasslands. (Acacia lysiphloia tall sparse to open shrubland)
- **6f11** Level to gently undulating lateritic plains. Moderately deep red earths (Red Kandosols). Snappy gum low open woodland with spinifex or tussock grasslands. (Eucalyptus brevifolia low open woodland)
- **6f12** Level to gently undulating lateritic plains. Moderately deep red earths (Red and Brown Kandosols). Variable Glossy leaved box low open woodland OR Acacia sparse shrublands with spinifex or tussock grasses. (Eucalyptus chlorophylla low open woodland (variable) OR Acacia spp. tall sparse shrubland)
- **6f13** Level to gently undulating lateritic plains. Moderately deep red earths (Red Kandosols). Variable barked bloodwood and Snappy gum low open woodland OR Snappy gum low open woodland with spinifex grasslands. (Corymbia dichromophloia and Eucalyptus brevifolia low open woodland OR Eucalyptus brevifolia low open woodland)
- **6f14** Level to gently undulating lateritic plains. Moderately deep red earths (Red and Brown Kandosols). Snappy gum low open woodland with soft spinifex grasslands. (Eucalyptus brevifolia low open woodland)
- **6f15** Level to gently undulating lateritic plains. Deep red and brown earths (Red and Brown Kandosols). Snappy gum low open woodland with mixed grasslands (golden beard grass, wiregrass, oat kangaroo grass, spinifex). (Eucalyptus brevifolia low open woodland)
- **6f18** Level to gently undulating lateritic plains and footslopes. Very shallow red earths (Red Kandosols). Spinifex grasslands. (Triodia sp. low hummock grassland)
- **6g1** Level to gently undulating sandstone plains. Moderately deep earths (Red Kandosols). Snappy gum low open woodland with mixed grasslands or spinifex grasslands. (Eucalyptus brevifolia low open woodland)
- **6g5** Level to gently undulating sandstone plains and low rises, rock outcrop. Very shallow soils (Leptic Tenosols). Acacia sparse shrubland with spinifex grasslands. (Acacia sp. tall sparse shrubland)

### ALLUVIAL PLAINS

- **7i** Extensive flat alluvial plains. Deep grey cracking clays (Grey, Black and Brown Vertosols). Mixed tussock grassland (golden beard grass, feather top wiregrass, mitchell, flinders, native couch and curly bluegrasses). (Mixed species low to mid tussock grassland)
- **7i3** Flat alluvial plains with minor drainage depressions. Deep grey cracking clays (Grey Vertosols). Sedges and mixed grasses. (Cyperus compactus with mixed tussock spp. low open sedgeland)
- **7i4** Relict river levees. Deep red earths (Red Kandosols). Silver box low open woodland OR mixed grasslands (curly bluegrass, silky browntop, oat kangaroo and wiregrasses). (Eucalyptus pruinosa low open woodland OR mixed spp. mid tussock grassland)
- **7i6** Flat relict alluvial plains. Deep brown cracking clays (Brown and Grey Vertosols). Oat kangaroo mixed grassland OR Silky browntop mixed grasslands. (Themeda avenacea mixed species mid tussock and mid closed tussock grassland OR Eulalia aurea mixed species mid tussock and mid closed grassland)

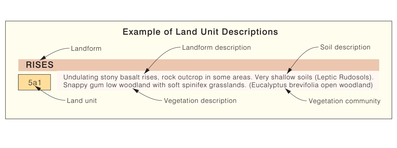
### DRAINAGE SYSTEMS

- **8i** River systems and watercourses. Variable soils (Red Kandosols and Dermosols). Ghost gum low and mid open woodland OR River red gum low and mid open woodland with mixed grasses. (Corymbia bella low and mid open woodland OR Eucalyptus camaldulensis low and mid open woodland)

### INLAND WETLANDS

- **9m2** Intermittent wetlands and swamps. Very deep cracking and non-cracking clays (Redoxic Hydrosols). Coolibah low open woodland OR Cooba sparse shrubland with mixed grasses (pepper grass, wanderrie and kerosene grasses). (Eucalyptus coolabah low open woodland OR Acacia stenophylla tall sparse shrubland)

**Example of Land Unit Descriptions**

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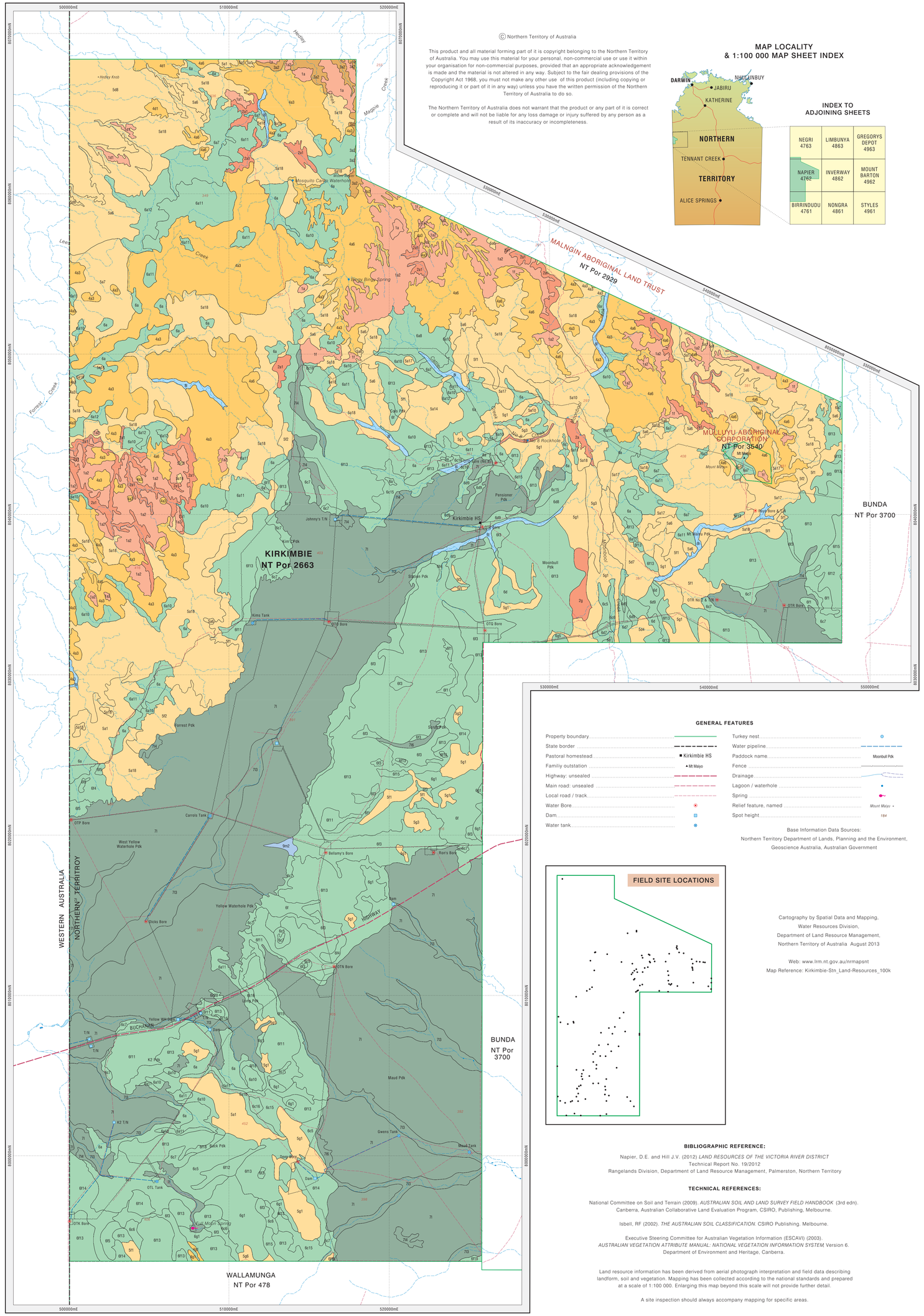
### MAP LOCALITY & 1:100 000 MAP SHEET INDEX




### INDEX TO ADJOINING SHEETS

| | | |
|---|---|---|
| NEGRI 4763 | LIMBUNYA 4863 | GREGORYS DEPOT 4963 |
| NAPIER 4762 | INVERWAY 4862 | MOUNT BARTON 4962 |
| BIRRINDUDU 4761 | NONGRA 4861 | STYLES 4961 |




### GENERAL FEATURES

- Property boundary
- State border
- Pastoral homestead — Kirkimbie HS
- Familiy outstation — Mt Mayo
- Highway: unsealed
- Main road: unsealed
- Local road / track
- Water Bore
- Dam
- Water tank
- Turkey nest
- Water pipeline
- Paddock name — Moonbull Pdk
- Fence
- Drainage
- Lagoon / waterhole
- Spring
- Relief feature, named — Mount Maiyu
- Spot height — 184

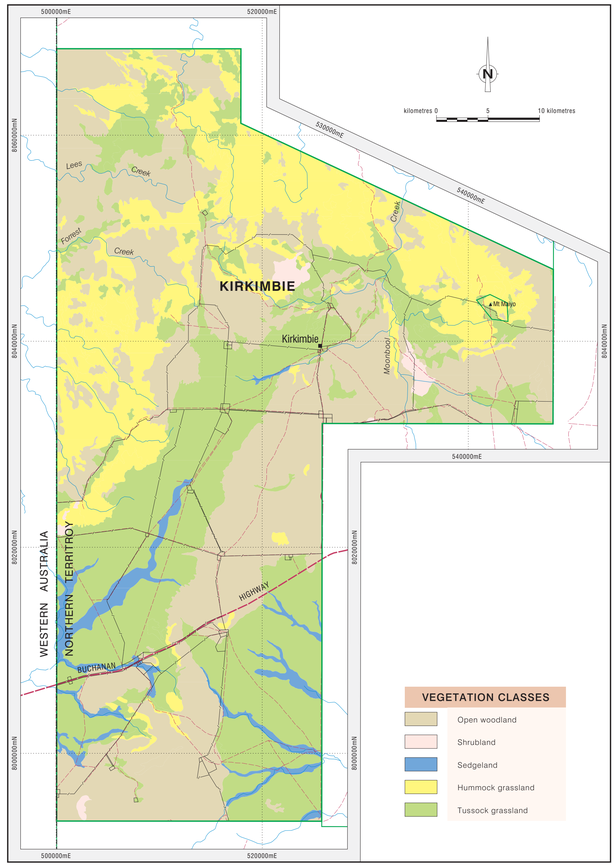
Base Information Data Sources:
Northern Territory Department of Lands, Planning and the Environment,
Geoscience Australia, Australian Government

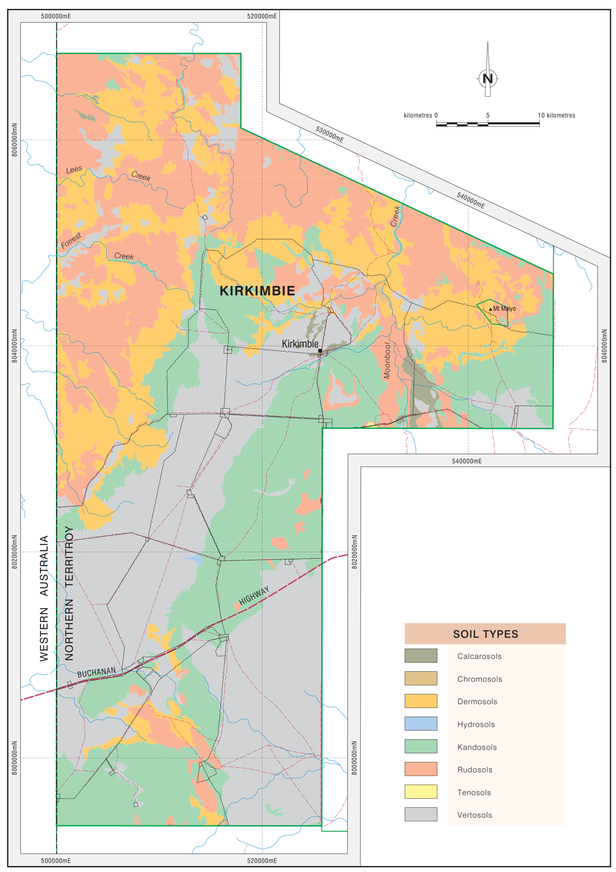
### FIELD SITE LOCATIONS



Cartography by Spatial Data and Mapping,
Water Resources Division,
Department of Land Resource Management,
Northern Territory of Australia August 2013

Web: www.lrm.nt.gov.au/nrmapsnt
Map Reference: Kirkimbie-Stn_Land-Resources_100k

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This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

kilometres 0 2 4 6 8 10 kilometres

Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 52
Transverse Mercator Projection Horizontal Datum: GDA 94

**BIBLIOGRAPHIC REFERENCE:**

Napier, D.E. and Hill J.V. (2012) *LAND RESOURCES OF THE VICTORIA RIVER DISTRICT*
Technical Report No. 19/2012
Rangelands Division, Department of Land Resource Management, Palmerston, Northern Territory

**TECHNICAL REFERENCES:**

National Committee on Soil and Terrain (2009). *AUSTRALIAN SOIL AND LAND SURVEY FIELD HANDBOOK* (3rd edn). Canberra, Australian Collaborative Land Evaluation Program, CSIRO, Publishing, Melbourne.

Isbell, RF (2002). *THE AUSTRALIAN SOIL CLASSIFICATION*. CSIRO Publishing. Melbourne.

Executive Steering Committee for Australian Vegetation Information (ESCAVI) (2003). *AUSTRALIAN VEGETATION ATTRIBUTE MANUAL: NATIONAL VEGETATION INFORMATION SYSTEM*, Version 6. Department of Environment and Heritage, Canberra.

Land resource information has been derived from aerial photograph interpretation and field data describing landform, soil and vegetation. Mapping has been collected according to the national standards and prepared at a scale of 1:100 000. Enlarging this map beyond this scale will not provide further detail.

A site inspection should always accompany mapping for specific areas.

Northern Territory Government

*LAND RESOURCES OF THE VICTORIA RIVER DISTRICT*

# LAND RESOURCES of KIRKIMBIE STATION

**Including Mulluyu Aboriginal Corporation NT Por 3540**

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