

Drainage Features

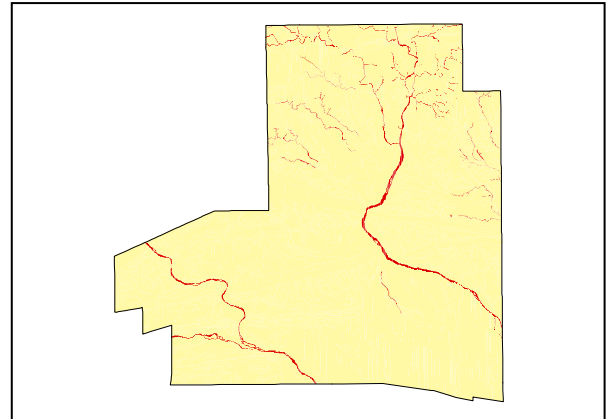
LAND UNIT 5.02

Sandy River and Creek Beds

DESCRIPTION: Rivers and creeks with sandy beds and River Red Gums over sparse grasses in some areas.
SITE: 035



Distribution of land unit.



Area = 6.68 km², 2.03% of mapped area.

LAND CAPABILITY:

| ATTRIBUTES | |
|------------------------|-------------------------------|
| SLOPE (%) | 1 |
| RELIEF (m) | 1.0 |
| SOIL DEPTH (m) | 0.00 to >2.0 |
| SURFACE CONDITION | Loose |
| DEPTH TO SUBSTRATE (m) | 0.00 to >2.0 |
| REACTION TREND (pH) | 7.0 |
| OUTCROP (%) | - |
| RUNOFF | None (unless water saturated) |
| PERMEABILITY | Highly permeable |
| DRAINAGE | Rapidly drained |
| SALINITY (µs/cm) | 14.0 to 20.0 |

| DEVELOPMENT RISKS | |
|-------------------|----------|
| EROSION | Moderate |
| ROCK FALL | None |
| SHEET FLOODING | Severe |
| INUNDATION | Severe |
| SALINITY | None |
| ALKALINITY | None |
| ACIDITY | None |

| CAPABILITY CLASS | | | | | |
|------------------|---------------------|-----------------|--------------|----------------------|-------------|
| Formed Roads | Shallow excavations | Septic Disposal | Horticulture | Building Foundations | Landscaping |
| Very Poor | Very Poor | Very Poor | Very Poor | Very Poor | Very Poor |

Drainage Features

TECHNICAL DETAILS**LAND UNIT 5.02**

DESCRIPTION: Rivers and Creeks with sandy beds with River Red Gums over sparse grasses in some areas

GEOLOGY: Quaternary, most likely Holocene, sandy gravel bed-load material deposited and transported by fluvial action and derived from several igneous, sedimentary and metamorphic sources.

LANDFORM: This land unit comprises the sandy bed load channels of major rivers and creeks in the Alice Springs area. These range in width from 200m to 10m and are bounded by levee deposits (LU 4.07 and 4.08) up to 3m in elevation. The land unit exhibits highly active fluvial processes with sediment being subject to active braiding processes.

SOIL: Example from **Site 035**.
MGA. Coordinates: 7383779mN, 383240mE

CLASSIFICATION: Siliceous Sand. Rudosol - RU, HH, BX, AR, H, K

SURFACE: Loose incoherent mass of individual sand particles with some organic matter and occasional coarse gravel to stone size fragments.

| DEPTH (m) | HORIZON | TEXTURE | pH | SALINITY ($\mu\text{s/cm}$) | OTHER DETAILS |
|-------------|---------|----------|-----|-------------------------------|---|
| 0.00 - 0.20 | A3 | Sand (S) | 7.0 | 15.0 | Brown (7.5YR5/4). 1% 6-20mm medium gravelly angular quartz fragments and 40% 2-6mm fine gravelly angular quartz fragments. Apedal, non-coherent and non-effervescent. |
| 0.20 - 0.50 | A3 | Sand (S) | 7.0 | 20.0 | Brown (7.5YR5/4). 1% 6-20mm medium gravelly angular quartz fragments and 40% 2-6mm fine gravelly angular quartz fragments. Apedal, non-coherent and non-effervescent. |
| 0.50 - 1.00 | A3 | Sand (S) | 7.0 | 14.0 | Brown (7.5YR5/4). 1% 6-20mm medium gravelly angular quartz fragments and 40% 2-6mm fine gravelly angular quartz fragments. Apedal, non-coherent and non-effervescent. |
| 1.00 - 2.00 | A3 | Sand (S) | 7.0 | 15.0 | Brown (7.5YR5/4). 1% 6-20mm medium gravelly angular quartz fragments and 40% 2-6mm fine gravelly angular quartz fragments. Apedal, non-coherent and non-effervescent. |

VEGETATION: **Site 90** (Albrecht, D. and Pitts, B. 1999).

| UPPER STRATUM - Isolated trees | |
|---|--|
| Dominant species | River Red Gum |
| Other species | Whitewood |
| MID STRATUM - Isolated shrubs | |
| Dominant species | |
| Other species | Creek Tea-tree, Inland tea-tree, Witchetty Bush, Dead Finish, Acacia Bush, Black Teatree |
| LOWER STRATUM - Sparse grassland | |
| Dominant species | Lemon-scented Grass, Silky Browntop |
| Other species | Hairy Joyweed, Cane Grass Three-awn, Spiny Sedge, Puta-Puta, Native Indigo, Natal Red Top, <i>Pluchea rubelliflora</i> , Sticky Blue-rod, one or both of Tar Vine & Yipa, Variable Daisy, Small Yellow Button, <i>Leptochloa fusca subsp. fusca</i> , Purplehead Nineawn, Creek Windmill Grass, Clustered Lovegrass, Weeping Lovegrass, Mountain Wanderrie, Woolly Glycine, <i>Juncus A87739 MacDonnell Ranges</i> , Short-fruit Nardoo, Apple Bush, <i>Rostellularia adscendens subsp. adscendens var. latifolia</i> , Wild Tomato, <i>Tephrosia supina</i> , Kangaroo Grass, Dwarf Lantern Flower, <i>Aristida arida</i> , Flat-awned Threawn, Tall Fleabane, Grey Rattlepod, Cotton Panic Grass, Climbing Saltbush, Native Oat-grass, Sickie Lovegrass, Birdsville Indigo, Umbrella Canegrass, Wild Hops, Velvet Hibiscus, Native Millet, Buckbush, Slender Spurge, Tall Copper Burr, Tall Copper Burr, Hill Thread-petal |

(See Appendix 3 for botanical names)