**Project Name:** New Farm Forest
**Project Code:** NFF **Site ID:** MOO2 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (SA)

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | I. Hollingsworth | **Locality:** | |
| **Date Desc.:** | 05/03/97 | **Elevation:** | 47 metres |
| **Map Ref.:** | Sheet No. : 7029 1:100000 | **Rainfall:** | No Data |
| **Northing/Long.:** | 6184820 AMG zone: 54 | **Runoff:** | No runoff |
| **Easting/Lat.:** | 463900 Datum: AGD66 | **Drainage:** | Poorly drained |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Auger boring | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | No Data | **Substrate Material:** | Auger boring, 1.8 m deep,Porous, Eolian sand |

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | Undulating plains <9m 3-10% | **Pattern Type:** | Dunefield |
| **Morph. Type:** | Flat | **Relief:** | 5 metres |
| **Elem. Type:** | Swale | **Slope Category:** | Level |
| **Slope:** | 0 % | **Aspect:** | No Data |

**Surface Soil Condition (dry):** Soft

**Erosion:**

## Soil Classification

**Australian Soil Classification:**
Melanic Argic Hypercalcic Calcarosol Thick Non-gravelly Sandy Clayey Very deep

**Mapping Unit:** N/A
**Principal Profile Form:** N/A

**ASC Confidence:**
No analytical data are available but confidence is fair.

**Great Soil Group:** N/A

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

## Profile Morphology

| | | |
|---|---|---|
| O | 0 - 0.02 m | Organic Layer; , 0-0% ; Loamy sand; Single grain grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Sharp, Smooth change to - |
| A1 | 0.02 - 0.35 m | Very dark grey (7.5YR3/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to - |
| B1 | 0.35 - 0.7 m | Yellowish red (5YR5/8-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcarenite, coarse fragments; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Calcarenite, coarse fragments; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Calcarenite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to - |
| B2 | 0.7 - 1.8 m | Reddish grey (5YR5/2-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to - |
| B2k | 1.8 - 2 m | Yellowish red (5YR4/8-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Wet; Moderately plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots; |

## Morphological Notes

## Observation Notes

Wetter than MOO1, darker A horizon, poorly drained.

## Site Notes

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GV | CS | FS | Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | | K sat | K unsat |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| m | | g/g - m3/m3 | | | | | | | mm/h | mm/h |

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**Laboratory Analyses Completed for this profile**