

Project Name: Bradshaw
Project Code: BRD **Site ID:** 102B **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

| | | | |
|------------------------|----------------------------|-------------------|---------------------|
| Desc. By: | I. Hollingsworth | Locality: | |
| Date Desc.: | 10/10/96 | Elevation: | 13 metres |
| Map Ref.: | Sheet No. : 4966-1 1:50000 | Rainfall: | No Data |
| Northing/Long.: | 8285135 AMG zone: 52 | Runoff: | Very slow |
| Easting/Lat.: | 651803 Datum: AGD66 | Drainage: | Imperfectly drained |

Geology

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|----------------------|--------------|------------------------------------|---------------------------------|
| ExposureType: | Auger boring | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | Czs | Substrate Material: | Auger boring, 0.55 m deep, Coal |

Land Form

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|-------------------------|---------------------|------------------------|---------|
| Rel/Slope Class: | Level plain <9m <1% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | | |
|---|--------------------------------|--------------|
| Australian Soil Classification: | Mapping Unit: | 13 |
| Mottled Mesotrophic Brown Chromosol Medium Non-gravelly Sandy Clay-loamy Moderately deep | Principal Profile Form: | DY3-51 |
| ASC Confidence: | Great Soil Group: | Yellow earth |

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Sedge, 0.26-0.5m, Closed or dense. *Species includes - Unknown species
Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Melaleuca viridiflora
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Melaleuca viridiflora, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A1 | 0 - 0.1 m | Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Non-plastic; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to - |
| A2 | 0.1 - 0.25 m | Yellowish brown (10YR5/4-Moist); Light brownish grey (10YR6/2-Dry); , 7.5YR68; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Non-plastic; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| B2g | 0.25 - 0.55 m | Yellowish brown (10YR5/4-Moist); , 10YR61, 20-50% , 5-15mm, Distinct; , 10YR58; Loamy sand (Heavy); Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Non-plastic; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to - |
| D1 | 0.55 - 0.9 m | Yellowish brown (10YR5/4-Moist); , 10YR61, 20-50% , 5-15mm, Distinct; , 10YR58; Sandy clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to - |
| D2 | 0.9 - 1.2 m | Yellowish brown (10YR5/6-Moist); , 10YR58, 10-20% , 5-15mm, Faint; , 10YR61; Light clay; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to - |

Morphological Notes

Observation Notes

Site Notes

PHOTO NO; SURFACE - 12, PROFILE - 11, SAME AS 102A, E.POLYCARPA

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

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|-----------|--|
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 4B2 | pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 |
| 6B3 | Total organic carbon - high frequency induction furnace, infrared |
| 9B2 | Bicarbonate-extractable phosphorus - automated colour |
| P10_CF_C | Clay (%) - Coventry and Fett pipette method |
| P10_CF_CS | Coarse sand (%) - Coventry and Fett pipette method |
| P10_CF_FS | Fine sand (%) - Coventry and Fett pipette method |
| P10_CF_Z | Silt (%) - Coventry and Fett pipette method |