

Project Name: Bradshaw
Project Code: BRD **Site ID:** 404 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	18/10/96	Elevation:	No Data
Map Ref.:	Sheet No. : 5067-4 1:50000	Rainfall:	No Data
Northing/Long.:	8333531 AMG zone: 52	Runoff:	Very slow
Easting/Lat.:	672061 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czs	Substrate Material:	Auger boring, 1.2 m deep, Slightly porous, Alcrete (bauxite)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Hardsetting, Surface crust

Erosion: Active, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	32
Sodic Eutrophic Brown Chromosol Thin Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A

All necessary analytical data are available.

Site Disturbance:

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Melaleuca minutifolia, Melaleuca leucadendron

Surface Coarse Fragments: 10-20%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone

Profile Morphology

A1	0 - 0.03 m	Brown (10YR4/3-Moist); , 0-0% ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2	0.03 - 0.1 m	Brown (7.5YR5/4-Moist); Pinkish grey (7.5YR7/2-Moist); , 7.5YR5/6, 2-10% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.1 - 0.3 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Moderately sticky; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.3 - 0.6 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Medium heavy clay; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7 (Raupach); Clear, Smooth change to -
B2	0.6 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Medium heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Few cutans, <10% of ped faces or walls coated, faint; Field pH 8.5 (Raupach); Clear, Smooth change to -
B2h	0.9 - 1.2 m	Strong brown (7.5YR5/8-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Few cutans, <10% of ped faces or walls coated, faint; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Site Notes

PHOTO NO; SURFACE - 3, M.MICROTHERA, M.LEOCOND..., SEHIMA NERVOSA.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.03	4.7C 5.6A	0.03A								
0.1 - 0.3	4.6C 6.2A	0.01A	2.56C	4.12	0.11	0.26		10.5K	7D	2.48

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Laboratory Analyses Completed for this profile

15B1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15B1_K	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15B1_MG	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15B1_NA	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15I3	CEC measurement - automated determination of ammonium and chloride ions
15J_BASES	Sum of Bases
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