

**Project Name:** Bradshaw  
**Project Code:** BRD      **Site ID:** 307      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	I. Hollingsworth	<b>Locality:</b>	
<b>Date Desc.:</b>	17/10/96	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 5067-3    1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	8309332 AMG zone: 52	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	694770    Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Paa	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Surface crust, Hardsetting, Cryptogam surface

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	37
Mottled Eutrophic Brown Chromosol Thin Non-gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.		

**Site Disturbance:**

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Aristida latifolia, Chrysopogon fallax, Sorghum timorense

Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - Melaleuca minutifolia

**Surface Coarse Fragments:** 0-2%, , angular tabular, Siltstone

**Profile Morphology**

A11	0 - 0.03 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, subrounded tabular, Siltstone, coarse fragments; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots;
A12	0.03 - 0.1 m	Yellowish brown (10YR5/6-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, fine gravelly, 2-6mm, subrounded tabular, Siltstone, coarse fragments; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots;
B21	0.1 - 0.3 m	Yellowish brown (10YR5/4-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, Siltstone, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;
B22	0.3 - 0.8 m	; Medium heavy clay; Strong grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Field pH 3 (Raupach);
Cr	0.8 - m	; Medium heavy clay; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Field pH 9 (Raupach);

**Morphological Notes**

**Observation Notes**

**Site Notes**

MELALEUCA MINUTIFOLIA, M.CERESIAUA, CHRYSOPOZN.... CHROMOSOL, BROWN, EUTROPHIC, MOTTLES, N.GRAVELLY, THIN, LOAMY, CLAYEY,....

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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	5.2C 6A	0.02A								
0.1 - 0.2	4.9C 6.4A	0.01A	1.76C	3.96	0.28	0.24		9.9K	6.2D	2.42

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**Laboratory Analyses Completed for this profile**

15B1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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