

**Project Name:** Bradshaw  
**Project Code:** BRD      **Site ID:** 110A      **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>	12/10/96	<b>Elevation:</b>	15 metres
<b>Map Ref.:</b>	Sheet No. : 4966-2 1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	8305019 AMG zone: 52	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	655898 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>	Auger boring, 0.6 m deep, Porous, Sandstone

#### Land Form

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

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	37
Haplic Mesotrophic Brown Dermosol Thin Slightly gravelly Clay-loamy Clayey Moderately deep		<b>Principal Profile Form:</b>	GR3
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. \*Species includes - Heteropogon contortus, Sorghum timorense  
Mid Strata - Shrub, 3.01-6m, Very sparse. \*Species includes - Lysiphyllum cunninghamii, Grevillia dimidata, Hakea arborescens  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus grandifolia, Eucalyptus species, Eucalyptus terminalis

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, , Sandstone

#### Profile Morphology

A1	0 - 0.07 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clay loam; Strong grade of structure, 2-5 mm, Platy; Massive grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Non-sticky; 2-10%, coarse gravelly, 20-60mm, subrounded tabular, dispersed, Sandstone, coarse fragments; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.07 - 0.2 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 2-5 mm; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Non-sticky; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.2 - 0.45 m	Brown (7.5YR4/3-Moist); , 0-0% ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 2-5 mm; Smooth-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Abrupt change to -
B3	0.45 - 0.5 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 2-5 mm; Smooth-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Common, fine (1-2mm)

#### Morphological Notes

#### Observation Notes

#### Site Notes

TERMIKALIA ARUSTMIA, EU.PRUNOOSA, HETEROPULOW, CONTONTORTUS, EV.TERUMUATIS, EV.GRANDIFOLIA, LYSOPHYLUM ....., GREY OMIDIATA, HAKEA ARBORESCORS, SEHIME ....., SONQHIUM .....

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.07	6.3C 6.7A	0.06A							
0.07 - 0.2	5.9C 6.7A	0.03A							
0.2 - 0.45	5.8C 6.7A	0.01A							

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**Laboratory Analyses Completed for this profile**

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