

**Project Name:** Bradshaw  
**Project Code:** BRD      **Site ID:** 110B      **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>	13/10/96	<b>Elevation:</b>	15 metres
<b>Map Ref.:</b>	Sheet No. : 4966-1 1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	8304968 AMG zone: 52	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	655874 Datum: AGD66	<b>Drainage:</b>	Moderately well 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>	Slightly porous, Sand

**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>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	37
Haplic Mesotrophic Black Dermosol Thin Slightly gravelly Clayey Clayey Shallow		<b>Principal Profile Form:</b>	N/A

**ASC Confidence:**

All necessary analytical data are available.

**Great Soil Group:** N/A

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Closed or dense. \*Species includes - None recorded  
Mid Strata - Shrub, 3.01-6m, Very sparse. \*Species includes - Grevillia dimidata, Acacia farnesiana, Hakea arborescens

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus grandifolia, Eucalyptus terminalis

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

**Profile Morphology**

A1	0 - 0.03 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Light clay; Strong grade of structure, <2 mm, Subangular blocky; Strong grade of structure, 20-50 mm, Subangular blocky; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; 10-20%, coarse gravelly, 20-60mm, Siltstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to -
B2	0.03 - 0.25 m	Black (10YR2/1-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, 20-50 mm, Subangular blocky; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; 10-20%, medium gravelly, 6-20mm, Siltstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach); Many, very fine (0-1mm) roots;
C	0.25 - 0.3 m	Black (10YR2/1-Moist); ; Medium clay; Dry; Very plastic; Normal plasticity; Many, very fine (0-1mm) roots;

**Morphological Notes**

**Observation Notes**

**Site Notes**

.....

**Observation ID: 1**

**Observation ID: 1**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.03	6.2C 6.5A	0.13A	25.68C	5.54	2.1	0.05		37.7K	33.4D	0.13
0.03 - 0.25	6.1C 6.8A	0.03A	18.89C	2.81	1.59	0.05		29.8K	23.3D	0.17

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size FS	Analysis	
								GV	CS		Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03		8.14C	19E						6.8A	23	24	33
0.03 - 0.25		2.28C	2E						3.7A	12.9	19	60.4

[illegible]

**Project Name:** Bradshaw  
**Project Code:** BRD                      **Site ID:** 110B                      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**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
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