

Project Name: Bradshaw
Project Code: BRD **Site ID:** 501 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	19/10/96	Elevation:	No Data
Map Ref.:	Sheet No. : 5067-4 1:50000	Rainfall:	No Data
Northing/Long.:	8334149 AMG zone: 52	Runoff:	No runoff
Easting/Lat.:	675000 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czs	Substrate Material:	Colluvium

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	51
Ochric Crusty Brown Vertosol Non-gravelly Medium fine Very fine Very deep	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 1.01-3m, Mid-dense. *Species includes - None recorded
Mid Strata - Shrub, 1.01-3m, Isolated plants. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, rounded, Calcarenite; 0-2%, medium gravelly, 6-20mm, subrounded tabular, Sandstone

Profile Morphology

A1	0 - 0.03 m	Dark brown (10YR3/3-Moist); , 0-0% ; Light medium clay; Strong grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Coarse, (10 - 20) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Very sticky; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.03 - 0.1 m	Dark brown (10YR3/3-Moist); , 0-0% ; Light medium clay; Strong grade of structure, <2 mm, Subangular blocky; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Slightly sticky; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.1 - 0.3 m	Brown (10YR4/3-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, <2 mm; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
BC	0.3 - 0.6 m	Brown (10YR4/3-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, <2 mm; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (Raupach); Gradual, Smooth change to -
C5	0.6 - m	Brown (10YR4/3-Moist); , 0-0% ; Medium heavy clay; Dry; Very plastic; Field pH 9 (Raupach); Gradual, Smooth change to -

Morphological Notes

Observation Notes

TYPICAL BROWN VERTOSOL, CARBONATE ... 50M.

Site Notes

PHOTO NO; SURFACE - 6,7 SURFACE,, COOHLOSPERNUM FRASERI, TERMINALIA PLAYPTERA. VERTOSOL, BROWN,

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na				%
						Cmol (+)/kg				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m					g/g - m3/m3				mm/h mm/h

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Laboratory Analyses Completed for this profile