

Project Name: Bradshaw
Project Code: BRD **Site ID:** 214 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	16/10/96	Elevation:	No Data
Map Ref.:	Sheet No. : 4967-2 1:50000	Rainfall:	No Data
Northing/Long.:	8303301 AMG zone: 52	Runoff:	No Data
Easting/Lat.:	657221 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Closed Depression	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:	Vertic Hypercalcic Grey Dermosol Thin Slightly gravelly Clay-loamy Clayey Very deep	Mapping Unit:	51
		Principal Profile Form:	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, 0.26-0.5m, Mid-dense. *Species includes - Chrysopogon fallax, Aristida latifolia
Tall Strata - Shrub, 1.01-3m, Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.03 m	Olive brown (2.5Y4/4-Moist); , 0-0% ; Silty clay loam; Moderate grade of structure, 2-5 mm, Platy; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), , , ; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots;
A12j	0.03 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); , 2.5Y42, 10-20% , 5-15mm, Faint; Silty light clay; Moderate grade of structure, <2 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Very few (0 - 2 %), , , ; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots;
B21	0.1 - 0.2 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR44, 10-20% , 5-15mm, Faint; Medium heavy clay; Strong grade of structure, Lenticular; Smooth-ped fabric; Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (Raupach);
B22	0.2 - 0.45 m	Dark greyish brown (2.5Y4/2-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, Angular blocky; Smooth-ped fabric; Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (Raupach);
B2k	0.45 - 1.1 m	Light olive brown (2.5Y5/6-Moist); , 0-0% ; Medium heavy clay; , Angular blocky; Smooth-ped fabric; Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

PHOTO NO; SURFACE - 12,13.

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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			%

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

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