Project Name: **Bradshaw**
Project Code: **BRD** **Site ID:** **107A** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 11/10/96
Map Ref.: Sheet No. : 4966-1 1:50000
Northing/Long.: 8299696 AMG zone: 52
Easting/Lat.: 654997 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Very slow
Drainage: Imperfectly drained

Geology

ExposureType: Auger boring
Geol. Ref.: Czs
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1 m deep,Porous, Alcrete (bauxite)

Land Form

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

Surface Soil Condition (dry): Surface flake, Hardsetting

Erosion: Active, Moderate (wind);

Soil Classification

Australian Soil Classification:
Mottled Epipedal Brown Vertosol Slightly gravelly Fine Medium fine Very deep
Mapping Unit: 12
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, Very sparse. *Species includes - Themeda triandra, Chrysopogon fallax
Mid Strata - Shrub, 1.01-3m, Very sparse. *Species includes - Carissa lanceolata, Lysiphyllum cunninghamii
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Melaleuca minutifolia, Eucalyptus microtheca

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, rounded, Ferricrete

Profile Morphology

A1	0 - 0.04 m	Light olive brown (2.5Y5/4-Moist); , 7.5YR56, 10-20% , 5-15mm, Faint; Silty clay loam; Strong grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B2t	0.04 - 0.7 m	Light olive brown (2.5Y5/4-Moist); , 7.5YR56, 10-20% , 5-15mm, Faint; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;
B2k	0.7 - 1 m	Dark yellowish brown (10YR4/4-Moist); , 0-2% , 5-15mm, Faint; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

SILT VERSION OF 106

Site Notes

PHOTO NO; SURFACE - 1 (2ND ROLL), PROFILE - ....., ..., M.MINUTIFOLIA, E.MICORO, CARISSA LANCEOLATA, LYSIPHYLUM CUNNINGHANII.....

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.04	5.3C 5.9A	0.04A								
0.1 - 0.2	5C 5.8A	0.03A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04												
0.1 - 0.2												

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
0 - 0.04										
0.1 - 0.2										

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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