

Project Name: Bradshaw
Project Code: BRD **Site ID:** 405 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	18/10/96	Elevation:	No Data
Map Ref.:	Sheet No. : 5067-4 1:50000	Rainfall:	No Data
Northing/Long.:	8333069 AMG zone: 52	Runoff:	Very slow
Easting/Lat.:	677488 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0.5 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	35
Haplic Eutrophic Brown Kandosol Thin Slightly gravelly Loamy Clayey Moderately deep		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A

All necessary analytical data are available.

Site Disturbance:

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Themeda triandra, Sorghum timorense
Tall Strata - Tree, 1.01-3m, Closed or dense. *Species includes - Melaleuca minutifolia, Melaleuca

leucadendron

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, angular tabular, Siltstone

Profile Morphology

A1	0 - 0.05 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Silty loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Slightly plastic; Normal plasticity; Non-sticky; 2-10%, fine gravelly, 2-6mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 1 (Raupach); Common, very fine (0-1mm) roots;
A3	0.05 - 0.2 m	Yellowish brown (10YR5/4-Moist); , 10YR64, 10-20% , 5-15mm, Distinct; , 10YR58; Silty clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; 2-10%, fine gravelly, 2-6mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots;
B21	0.2 - 0.3 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Medium heavy clay; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, fine gravelly, 2-6mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach);
B22	0.3 - 0.6 m	Strong brown (7.5YR5/8-Moist); , 0-0% ; Medium clay; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Non-sticky; 10-20%, fine gravelly, 2-6mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 6.5
BC	0.6 - 0.75 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; 50-90%, medium gravelly, 6-20mm, angular tabular, dispersed, Siltstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach);

Morphological Notes

Observation Notes

DARK BLUE ON GAMMA CLASS MAP - TYPICAL SILLSTIM - KANDOSOL.

Site Notes

PHOTO NO; SURFACE - 8,9. M.MICROTHEA, M.LE....., SEHIMA NERVOSA, THEM.. TIANDRA,.....SL.GRAVELLY, LOAMY, CLAYEY,.....

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.05	4.6C 5.5A	0.02A								
0.2 - 0.3	4.3C 6.1A	0.01A	1.42C	2.98	0.19	0.37		11.1K	5D	3.33

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Laboratory Analyses Completed for this profile

15B1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 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