

Project Name: Bradshaw
Project Code: BRD **Site ID:** 402 **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.:	8334028 AMG zone: 52	Runoff:	Very slow
Easting/Lat.:	670161 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Fan	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion: Active, Severe (sheet) Active, Severe (gully)

Soil Classification

Australian Soil Classification:	Silpanic Subnatric Brown Sodosol Medium Non-gravelly Sandy Clay-loamy Deep	Mapping Unit:	34
		Principal Profile Form:	N/A

ASC Confidence:	No analytical data are available but confidence is fair.	Great Soil Group:	N/A
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Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Closed or dense. *Species includes - Themeda triandra, Chrysopogon fallax

Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Melaleuca viridiflora

Surface Coarse Fragments: 0-2%, stony, 200-600mm, , Sandstone

Profile Morphology

A11	0 - 0.02 m	Brown (10YR4/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.02 - 0.1 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.1 - 0.6 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Non-sticky; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
B2g	0.6 - 0.61 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Strong grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Slightly sticky; Fragipan, Moderately cemented, Continuous, Vesicular; Field pH 8 (Raupach); Sharp, Smooth change to -
B2q	0.61 - 0.65 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Slightly sticky; Common (10 - 20 %), Ferromanganiferous, , Nodules; , Massive; Field pH 8.5 (Raupach); Sharp, Smooth change to -
B2k	0.65 - m	Light yellowish brown (10YR6/4-Moist); , Sandy clay loam; Dry; Moderately plastic; Normal plasticity; Moderately sticky; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Ferromanganiferous, , Nodules; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

CLIFF'S STUDY SITE OF AN EROSION PROCESS..REFER NOTES

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PHOTO NO; SURFACE - 18,19,20,21,22 (ROLL 4), PROFILE - 17 (ROLL 51).....

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Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.02	4.6C	0.02A							
	5.5A								
0.6 - 0.65	7.4C	0.38A							
	8.4A								

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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