

Project Name: Bradshaw
Project Code: BRD **Site ID:** 104B **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	10/10/96	Elevation:	10 metres
Map Ref.:	Sheet No. : 4966-1 1:50000	Rainfall:	No Data
Northing/Long.:	8291131 AMG zone: 52	Runoff:	No Data
Easting/Lat.:	652961 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Self-mulching, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	51
Haplic Self-Mulching Brown Vertosol Slightly gravelly Very fine Very fine Very deep	Principal Profile Form:	U55.12
ASC Confidence:	Great Soil Group:	Grey clay
All necessary analytical data are available.		

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

Vegetation:

Tall Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Chrysopogon fallax

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.03 m	Greyish brown (2.5Y5/3-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Coarse, (10 - 20) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Common, fine (1-2mm) roots; Clear change to -
B2	0.03 - 0.8 m	Greyish brown (2.5Y5/3-Moist); , 0-0% ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Few (<1 per 100mm ²) 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; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

TREELESS PLAIN

Site Notes

CHRYSOPAGAM FALLAX, SAME AS 104A

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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			%
				Na Cmol (+)/kg			

0 - 0.02	6.1C	0.03A
	6.7A	
0.1 - 0.2	6.8C	0.03A
	7.5A	

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

0 - 0.02
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		
m		g/g - m3/m3						mm/h	mm/h

0 - 0.02
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