Project Name: Bradshaw

Project Code: BRD Site ID: 308 Observation ID: 1

CSIRO Division of Soils (SA) **Agency Name:**

Site Information

Desc. By: I. Hollingsworth Locality:

Date Desc.: Elevation: 17/10/96 No Data Map Ref.: Sheet No.: 5067-3 1:50000 Rainfall: No Data Northing/Long.: 8310285 AMG zone: 52 Runoff: No runoff 671863 Datum: AGD66 Poorly drained Easting/Lat.: Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Auger boring No Data

Substrate Material: Geol. Ref.: Slightly porous, Alluvium Qa

Land Form

Rel/Slope Class: Level plain <9m <1% Anastomatic plain Pattern Type:

Morph. Type: Relief: 0 metres Elem. Type: Slope Category: Plain Level 0 % Aspect: No Data Slope:

Surface Soil Condition (dry): Cracking, Cryptogam surface

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: 13 Endocalcareous Crusty Grey Vertosol Non-grayelly Medium Principal Profile Form: N/A

fine Medium fine Very deep

ASC Confidence: N/A **Great Soil Group:**

All necessary analytical data are available.

Site Disturbance:

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.03 m Dark greyish brown (2.5Y4/2-Moist); , 0-0%; Light clay; Massive grade of structure, 5-10 mm, Α1 Platy; Earthy fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Dry; Very plastic; Moderately sticky; Field pH 6.5 (Raupach); Few, very fine (0-

B21 0.03 - 0.1 m Very dark greyish brown (2.5Y3/2-Moist); , 10YR44, 10-20% , 5-15mm, Faint; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Field

pH 6.5 (Raupach); Few, very fine (0-1mm) roots;

Dark greyish brown (2.5Y4/2-Moist); , 0-0%; Medium clay; Strong grade of structure, 2-5 mm, B22 0.1 - 0.3 m

Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Medium (2-5mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Field pH 6.5

(Raupach);

B23 Light olive brown (2.5Y5/4-Moist); , 0-0%; Medium clay; Strong grade of structure, 2-5 mm, 0.3 - 0.5 m

Angular blocky; Smooth-ped fabric; Fine (1-2mm) macropores, Dry; Very plastic; Normal

plasticity; Very sticky; Field pH 7 (Raupach);

B24 0.5 - 0.75 m

Dark greyish brown (2.5Y4/2-Moist); , 0-0%; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm),

Nodules; Field pH 8.5 (Raupach);

Olive brown (2.5Y4/4-Moist); , 0-0%; Medium clay; Strong grade of structure, 2-5 mm, Angular **B24** 0.75 - 1.2 m

blocky; Smooth-ped fabric; Very fine (0.075-1mm) macropores, Moderately moist; Very plastic;

Normal plasticity; Slightly sticky; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Site Notes

VERTOSOL, GREY,...,..,V.GRAVELLY,.....V.DEEP

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Laboratory Test Results:

Depth	pН	1:5 EC		hangeable	Cations K	Na	Exchangeable	CEC		ECEC	ESP
m		dS/m	Ca	Mg	N.	Na Cmol (Acidity +)/kg				%
0 - 0.03	5C 5.9A	0.04A	2.41C	5.18	0.69	0.17		12.9ŀ	<	8.4D	1.32
0.03 - 0.1	4.9C 6.1A	0.03A	2.77C	7.47	0.56	0.24		14.6h	<	11D	1.64
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	al Bulk Density	Pa GV	rticle CS	Size A	nalysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	٠.	00	%	one only
0 - 0.03 0.03 - 0.1		1.13C 0.95C	<2E <2E						4.1A 2.5A	_	32.5 35.8 32.3 46.6
Depth	COLE		Gravimetric/Volumetric Water Contents K sat K unsat								
m		Sat.									mm/h

0 - 0.03 0.03 - 0.1

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Laboratory Analyses Completed for this profile

15B1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for

soluble salts

15B1_K
15B1_MG
Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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
6B3 Total organic carbon - high frequency induction furnace, infrared

9B2 Bicarbonate-extractable phosphorus - automated colour

P10_CF_C Clay (%) - Coventry and Fett pipette method P10_CF_S Fine sand (%) - Coventry and Fett pipette method P10_CF_Z Silt (%) - Coventry and Fett pipette method P10_CF_Z Silt (%) - Coventry and Fett pipette method