Project Name: NAR
Project Code: NAR **Site ID:** B701 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Locality: SAME LAT. 7 LONG. GIVEN FOR PROFILES B701 - B794.
Date Desc.: 08/05/71
Elevation: 220 metres
Map Ref.: Sheet No. : 9046 1:100000
Rainfall: 716
Northing/Long.: 150.902777777778
Runoff: No Data
Easting/Lat.: -25.7041666666667
Drainage: No Data

Geology

ExposureType: Auger boring
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: PRt
Substrate Material: Auger boring, 2 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Pattern Type: No Data
Morph. Type: Lower-slope
Relief: No Data
Elem. Type: Hillslope
Slope Category: No Data
Slope: 107 %
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Lithocalcic Grey Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Cymbopogon refractus, Panicum effusum
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.2 m	Reddish brown (5YR4/3-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A12	0.2 - 0.3 m	Reddish brown (5YR4/3-Moist); ; Fine sandy clay loam (Heavy); Weak grade of structure, 5-10 mm, Subangular blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
B2	0.3 - 0.6 m	Weak red (2.5YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.6 - 0.7 m	Reddish brown (2.5YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.8 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.7 - 0.9 m	Reddish brown (5YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.9 - 1.1 m	Reddish brown (5YR4/3-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	1.1 - 1.2 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Strong consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B2	1.2 - 1.8 m	Reddish brown (5YR4/3-Moist); ; Light clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Gradual change to -

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B3	1.8 - 2.1 m	Reddish brown (5YR4/4-Moist); ; Fine sandy medium clay (Light); Weak grade of structure, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

SUBSTRATE AUBURN RIVER ALLUVIUM.

Site Notes

NARAYEN

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.2	6.4H	0.01B	4.6K	3.2	0.48	0.05	3.1D			
0.2 - 0.3										
0.3 - 0.6	6.7H	0.01B	8.9K	9.7	0.45	0.55	4.6D			
0.6 - 0.7										
0.7 - 0.9										
0.9 - 1.1										
1.1 - 1.2										
1.2 - 1.8										
1.8 - 2.1										

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 - 0.2		1.01A	26B	390F	0.076B	1.4B		3	10C	57	14	17
0.2 - 0.3												
0.3 - 0.6				450F		1.2B		1	8C	30	10	52
0.6 - 0.7												
0.7 - 0.9												
0.9 - 1.1												
1.1 - 1.2												
1.2 - 1.8												
1.8 - 2.1												

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 - 0.2										
0.2 - 0.3										
0.3 - 0.6										
0.6 - 0.7										
0.7 - 0.9										
0.9 - 1.1										
1.1 - 1.2										
1.2 - 1.8										
1.8 - 2.1										

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
17A_NR	Total element - K(%) - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded