Project Name: NAR
Project Code: NAR **Site ID:** B771 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 12/05/71
Map Ref.: Sheet No. : 9046 1:100000
Northing/Long.: 150.902777777778
Easting/Lat.: -25.7041666666667
Locality:
Elevation: 230 metres
Rainfall: 716
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Auger boring
Geol. Ref.: PRt
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 3 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Open depression (vale)
Elem. Type: No Data
Slope: 1.7 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Hypocalcic Subnatric Black Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dd1.43
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Massive grade of structure; Moist; Weak consistence; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
A2	0.1 - 0.16 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); ; Fine sandy loam (Light); Massive grade of structure; Moist; Very weak consistence; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.16 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); , 10YR42, 0-2% , 0-5mm, Faint; , 10YR56, 0-2% , 0-5mm, Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Field pH 7.5 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
B22	0.3 - 0.5 m	Very dark greyish brown (2.5Y3/2-Moist); , 10YR42, 0-2% , 0-5mm, Faint; , 10YR56, 0-2% , 0-5mm, Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	0.5 - 1.1 m	Very dark greyish brown (2.5Y3/2-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B24	1.1 - 2.1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B25	2.1 - 3 m	Very dark greyish brown (2.5Y3/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Moist; Very firm consistence; Very few (0 - 2 %), , Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

SUBSTRATE AUBURN RIVER TERRACE ALLUVIUM. BELOW 110 CM CARBONATE NODULESRHIZO CONCRETIONS. BELOW 180 CM STRONGLY DEVELOPED SLICKENSIDES. LAYERS RENUMBERED 5-10-92

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Site Notes
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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 - 0.1	6.6H	<0.01B	6.3K	3.2	0.37	0.15	3.9D			
0.1 - 0.16										
0.16 - 0.3	7.8H	0.03B	11.4K	12.6	0.77	1.7	1.9D			
0.3 - 0.5										
0.5 - 1.1										
1.1 - 2.1										
2.1 - 3										

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 - 0.1		1.76A	45B	290F	0.115B	1.3B		0.1	1C	58	25	14
0.1 - 0.16												
0.16 - 0.3				310F		1.4B		0.1	1C	32	18	50
0.3 - 0.5												
0.5 - 1.1												
1.1 - 2.1												
2.1 - 3												

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 - 0.1									
0.1 - 0.16									
0.16 - 0.3									
0.3 - 0.5									
0.5 - 1.1									
1.1 - 2.1									
2.1 - 3									

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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