Project Name: NAR
Project Code: NAR **Site ID:** B765 **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, 1 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: No Data
Elem. Type: No Data
Slope: 0.6 %
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:
Eutrophic Mottled-Subnatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: Solodic soil

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

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.2 m	Brown (10YR4/3-Moist); ; Loamy sand (Heavy); Weak grade of structure, 5-10 mm, Polyhedral; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A21	0.2 - 0.3 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A22	0.3 - 0.65 m	Brown (10YR5/3-Moist); Very pale brown (10YR7/3-Dry); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.65 - 0.8 m	Yellowish brown (10YR5/7-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B22	0.8 - 1 m	Yellowish brown (10YR5/7-Moist); , 10YR52, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7.3 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B3	1 - 1.1 m	Yellowish brown (10YR5/7-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
C	1.1 - 1.4 m	Yellowish brown (10YR5/6-Moist); , 10YR53, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

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SUBSTRATE COLLUVIUM FROM ADAMELLITE WITH SOME FINER TERRACE ALLUVIUM. 65-100 CM WELL DEVELOPED CRACKS TENDING MACRO COLUMNAR STRUCTURE. 80-1 40 MINERAL SPECKLING (10YR8/2). LANDFORM ELEMENT RIVER TERRACE. LAYERS RENUMBERED 5-10-92

Site Notes

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Observation 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 - 0.2	6.7H	<0B	2.7K	1.1	0.28	0.05	2.3D			
0.2 - 0.3										
0.3 - 0.65										
0.65 - 0.8	6.9H	0.02B	5.7K	8.1	0.35	1.2	3.7D			
0.8 - 1										
1 - 1.1										
1.1 - 1.4										

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		0.9A	19B	200F	0.05B	2.9B		7	42C	45	6	4
0.2 - 0.3												
0.3 - 0.65												
0.65 - 0.8				190F		2.4B		17	28C	26	5	45
0.8 - 1												
1 - 1.1												
1.1 - 1.4												

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 - 0.65										
0.65 - 0.8										
0.8 - 1										
1 - 1.1										
1.1 - 1.4										

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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