Project Name: NAR
Project Code: NAR **Site ID:** B728 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 10/05/71
Map Ref.: Sheet No. : 9046 1:100000
Northing/Long.: 150.902777777778
Easting/Lat.: -25.7041666666667
Locality:
Elevation: 250 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, 0.7 m deep,Adamellite

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 2.8 %
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:
Mottled Eutrophic Red Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr3.22
Great Soil Group: Red podzolic 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 - Eucalyptus crebra

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.2 m	Dark brown (7.5YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A2	0.2 - 0.4 m	Brown (7.5YR5/4-Moist); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A3	0.4 - 0.44 m	Strong brown (7.5YR5/5-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B2	0.44 - 0.6 m	Red (2.5YR4/6-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; , 7.5YR42, 20-50% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 2-5 mm, Polyhedral; Dry; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
C	0.6 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 10YR63, 20-50% , 0-5mm, Distinct; , 10YR42, 20-50% , 0-5mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7 (pH meter);

Morphological Notes

Observation Notes

STRONG SPECKLING OF PALE YELLOW TO WHITE WEATHERING MINERALS BELOW 44CM. GRAVEL DOMINANTLY FELDSPAR.

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 - 0.2	7.1H	0.01B	5.06K	1.01	0.28	0.2	4.45D			
0.2 - 0.4										
0.4 - 0.44										
0.44 - 0.6	6.3H	0.01B	6.7K	9.2	0.49	0.93	4.4D			
0.6 - 0.7										

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		2.12A	37B	280F	0.081B	2.7B		22	55C	29	6	6
0.2 - 0.4												
0.4 - 0.44												
0.44 - 0.6				450F		1.8B		24	42C	12	9	39
0.6 - 0.7												

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 - 0.4										
0.4 - 0.44										
0.44 - 0.6										
0.6 - 0.7										

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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