Project Name: NAR
Project Code: NAR **Site ID:** B743 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 11/05/71
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, 1.2 m deep,Adamellite

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillslope
Slope: 4 %
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:
Haplic Eutrophic Red Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr2.22
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, Aristida species
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark brown (7.5YR2/2-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A2	0.1 - 0.25 m	Brown (7.5YR4/2-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.25 - 0.5 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.2 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B22	0.5 - 0.8 m	Yellowish brown (10YR5/7-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.7 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B23	0.8 - 1 m	Yellowish brown (10YR5/7-Moist); , 10YR32; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B3	1 - 1.2 m	Yellowish brown (10YR5/4-Moist); , 10YR62, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Sandy medium clay; Weak grade of structure, Polyhedral; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
C	1.2 - 1.4 m	Yellowish brown (10YR5/6-Moist); , 10YR84, 10-20% , 0-5mm, Prominent; , 2.5Y72, 10-20% , 0-5mm, Prominent; Coarse sandy loam; Massive grade of structure; Moderately moist; Firm consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 7.5 (pH meter);

Morphological Notes

Observation Notes

40-80CM DARK GREY BROWN FISSURE FACES. 80-140CM INCREASING SPECKLING OFWEATHERING MINERALS.

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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	6.2H	0.01B	3.1K	2.5	0.26	0.02	3.5D			
0.1 - 0.25										
0.25 - 0.5	6.2H	0.01B	3.3K	5.4	0.15	0.19	3.7D			
0.5 - 0.8										
0.8 - 1										
1 - 1.2										
1.2 - 1.42										

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		1.45A	50B	330F	0.066B	3.8B		13	55C	27	7	10
0.1 - 0.25												
0.25 - 0.5				220F		3.3B		3	35C	31	9	26
0.5 - 0.8												
0.8 - 1												
1 - 1.2												
1.2 - 1.42												

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 - 0.25									
0.25 - 0.5									
0.5 - 0.8									
0.8 - 1									
1 - 1.2									
1.2 - 1.42									

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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