

Project Name: NAR
Project Code: NAR **Site ID:** B809 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	Catchment 4.
Date Desc.:	07/12/72	Elevation:	233 metres
Map Ref.:	Sheet No. : 9046 1:100000	Rainfall:	716
Northing/Long.:	150.910555555556	Runoff:	Moderately rapid
Easting/Lat.:	-25.693055555556	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PRt	Substrate Material:	Undisturbed soil core, 1 m deep, Adamellite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Brown Chromosol		Principal Profile Form:	Dy3.21
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

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, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Coarse sandy loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Brown (7.5YR4/3-Moist); ; Coarse sandy loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A13	0.2 - 0.3 m	Brown (7.5YR4/3-Moist); , 10YR58; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, very fine (0-1mm) roots; Clear change to -
A2	0.3 - 0.4 m	Brown (7.5YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common, very fine (0-1mm) roots; Clear change to -
A3	0.4 - 0.46 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy clay loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Clear change to -
B2	0.46 - 0.6 m	Strong brown (7.5YR5/6-Moist); , 10YR63, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
B2	0.6 - 0.75 m	Strong brown (7.5YR5/6-Moist); , 10YR63, 10-20% , 5-15mm, Distinct; , 2.5Y62, 10-20% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Clear change to -
B3	0.75 - 0.8 m	Strong brown (7.5YR5/6-Moist); , 10YR58, 20-50% , 0-5mm, Distinct; , 10YR63, 20-50% , 0-5mm, Distinct; Medium clay; Massive grade of structure; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Clear change to -

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BC	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 10YR86, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Clear change to -
C	0.9 - 1.2 m	Yellow (10YR8/6-Moist); , 5G61, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Clayey coarse sand; Massive grade of structure; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Gradual change to -
C	1.2 - 1.4 m	Brownish yellow (10YR6/6-Moist); , 5G61, 20-50% , 0-5mm, Prominent; , 10YR86, 20-50% , 0-5mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Gradual change to -
C	1.4 - 1.5 m	Yellow (10YR8/6-Moist); , 5G61, 20-50% , 0-5mm, Prominent; , 10YR52, 20-50% , 0-5mm, Prominent; Clayey coarse sand; Massive grade of structure; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

GRAVELS QUARTZ AND FELDSPAR THROUGHOUT. FELDSPARS DOMINANT 20-46CM AND BELOW 60CM. LAYERS RENUMBERED 7-10-92

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	6H	0.042A	2.7K	0.94	0.2	0	2.7D		
0.1 - 0.2	5.6H	<0.03A							
0.2 - 0.3	6H	<0.03A	1.2K	0.98	0.12	0	2.2D		
0.3 - 0.4	6.1H	<0.03A							
0.4 - 0.46	6.1H	<0.03A							
0.46 - 0.6	6.2H	0.03A	4.6K	5.4	0.22	0.43	7.1D		
0.6 - 0.75	6.3H	0.03A	5.7K	7.2	0.31	0.64	6.5D		
0.75 - 0.8	6.4H	0.037A							
0.8 - 0.9	6.8H	0.052A							
0.93 - 1.2	7.5H	0.032A							
1.2 - 1.4	8.1H	0.12A							
1.4 - 1.5	8.8H	0.11A							

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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
3A1	EC of 1:5 soil/water extract
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
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
P3A_NR	Bulk density - Not recorded