

Project Name: NAR
Project Code: NAR **Site ID:** B808 **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:	243 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

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PRt	Substrate Material:	Undisturbed soil core, 1.1 m deep, Adamellite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dr2.22
ASC Confidence:		Great Soil Group:	Red 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

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots;
A1	0.1 - 0.2 m	Dark brown (7.5YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
A2	0.2 - 0.28 m	Brown (7.5YR4/4-Moist); Brown (7.5YR5/4-Dry); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Sharp change to -
B2	0.28 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots;
B2	0.3 - 0.45 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
B2	0.45 - 0.6 m	Red (2.5YR4/8-Moist); ; Heavy clay; Moderate grade of structure, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
B31	0.6 - 0.75 m	Yellow (10YR8/5-Moist); , 10YR53, 20-50% , 0-5mm, Distinct; , 2.5YR48, 20-50% , 0-5mm, Distinct; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Abrupt change to -
B32	0.75 - 0.9 m	Greyish brown (2.5Y5/3-Moist); , 7.5YR54, 20-50% , 0-5mm, Distinct; , 10YR84, 20-50% , 0-5mm, Distinct; Coarse sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots;

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BC	0.9 - 1 m	Greyish brown (2.5Y5/2-Moist); , 2.5YR46, 20-50% , 0-5mm, Distinct; , 10YR84, 20-50% , 0-5mm, Distinct; Coarse sandy medium clay; Massive grade of structure; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
BC	1 - 1.1 m	Greyish brown (2.5Y5/2-Moist); , 2.5YR46, 10-20% , 15-30mm, Prominent; , 10YR84, 10-20% , 15-30mm, Prominent; Coarse sandy medium clay; Massive grade of structure; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
C	1.1 - 1.2 m	Yellowish red (5YR4/6-Moist); , 10YR86, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Coarse sandy medium clay; Massive grade of structure; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
C	1.2 - 1.5 m	Pink (5YR7/3-Moist); , 10YR86, 20-50% , 0-5mm, Prominent; , 5G61, 20-50% , 0-5mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

AFFINITIES NON-CALIC BROWN SOIL. GRAVELS QUARTZ AND FELDSPARS. LAYERS RENUMBERED 7-10-92

Site Notes

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Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	6.5H	0.06A	4.7K	1.3	0.3	0.01	1.2D		
0.1 - 0.2	6.5H	0.04A	2.4K	0.93	0.19	0	2.5D		
0.2 - 0.28	6.4H	0.038A							
0.28 - 0.3	5.9H	0.062A							
0.3 - 0.45	5.9H	0.042A	6.9K	5.5	0.55	0.15	9.2D		
0.45 - 0.6	6.1H	0.053A							
0.6 - 0.75	6.8H	0.037A	8.1K	4.9	0.38	0.32	3.7D		
0.75 - 0.9	7.3H	0.058A							
0.9 - 1	7.6H	0.074A							
1 - 1.1	7.8H	0.066A							
1.1 - 1.2	7.6H	0.062A							
1.2 - 1.5	7.5H	0.037A							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.91A	56B	350F	0.076B	3.88B	1.30	19	57C	20	8	6
0.1 - 0.2		0.43A	34B		0.043B		1.50	41	55C	32	7	6
0.2 - 0.28		0.29A	30B		0.04B		1.60	57	66C	21	6	7
0.28 - 0.3							1.70	17	39C	22	7	32
0.3 - 0.45		0.46A	10B	120F	0.05B	5.56B	1.50	9	29C	19	7	46
0.45 - 0.6		0.14A			0.036B		1.70	13	26C	21	9	47
0.6 - 0.75		0.31A	494B		0.02B		1.70	22	48C	21	11	22
0.75 - 0.9							2.00	16	51C	18	9	24
0.9 - 1			333B	180F		2.24B	1.80	29	47C	23	8	22
1 - 1.1												
1.1 - 1.2												
1.2 - 1.5								47	62C	20	9	10

[illegible]

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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