Project Name: NAR

Project Code: NAR Site ID: B797 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:G.D. HubbleLocality:Catchment 2.Date Desc.:20/09/72Elevation:237 metres

Map Ref.: Sheet No.: 9046 1:100000 Rainfall: 716

Northing/Long.: 150.908888888889 Runoff: Moderately rapid
Easting/Lat.: -25.7083333333333 Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 0.8 m

deep,Unconsolidated material

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Lower-slopeRelief:30 metresElem. Type:HillslopeSlope Category:No DataSlope:4 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMagnesic Mottled-Subnatric Grey SodosolPrincipal Profile Form:Dy3.41ASC Confidence:Great Soil Group:Grey-brownAll necessary analytical data are available.podzolic soil

<u>Site Disturbance:</u> 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, Very sparse. *Species includes - Eucalyptus tessellaris

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Clear, Wavy change to -
A2	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
A2	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/3-Dry); ; Coarse sand; Massive grade of structure; Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
A2	0.3 - 0.41 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/3-Dry); ; Coarse sand; Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Sharp change to -
B1	0.41 - 0.48 m	Light brownish grey (2.5Y6/3-Moist); , 7.5YR56, 20-50% , 15-30mm, Distinct; , 10YR53, 20-50% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B2	0.48 - 0.6 m	Pale brown (10YR6/3-Moist); , 2.5YR36, 20-50% , 15-30mm, Distinct; , 7.5YR56, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
В3	0.6 - 0.8 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
С	0.8 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 10YR52, 10-20% , 15-30mm, Distinct; , 5YR56, 10-20% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots;

Project Name: NAR

Project Code: NAR Site ID: B797 Observation ID: 1

Agency Name: **CSIRO** Division of Soils (QLD)

0.9 - 0.94 m

Strong brown (7.5YR5/6-Moist); , 10YR52, 10-20% , 15-30mm, Distinct; , 5YR56, 10-20% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

SOLUM FORMED IN COLLUVIUM FROM ADAMELLITE. GRAVELS QUARTZ AND FELDSPAR THROUGHOUT. COARSE FELDSPARS TO 25MM IN A2 HORIZON. BELOW 94CM TO 3.9M BURIED SOIL LAYERS OF SIMILAR KIND VARYING FROM GRITTY MHC (PEDAL) TO COARSE GRITTY SCL.

NARAYEN

NAR

Project Name: Project Code: Agency Name: NAR Site ID: B797 Observation ID: 1

CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable			xchangeable	CEC	E	CEC	E	SP
m		dS/m	Ca I	Mg	K	Na Cmol (+)	Acidity /kg				9	6
0 - 0.1	6.2H	<0.03A	1.2K	0.42	0.1	0.01	0D					
0.1 - 0.2	6.3H	<0.03A	1.21	0.42	0.1	0.01	0D					
0.1 - 0.2	6.5H	<0.03A										
0.3 - 0.41	7H	<0.03A										
0.41 - 0.48	5.9H	0.079A										
0.48 - 0.6	5.5H	0.0707t	0.9K	8.9	0.19	1.2	2.7D					
0.6 - 0.8	5.7H	0.112A		6.9	0.15	1.4	0.3D					
0.8 - 0.9	6H	0.174A	0	0.0	00		0.02					
0.9 - 0.94	5.7H	0.235A										
Domáh	CaCO3	Ozzania	Avail.	Total	Total	Total	Bulk	Do	rticle S	`: A	nalysis	
Depth	Cacos	Organic C	Avaii. P	P	N	K	Density	GV		FS A	Silt (Clav
m	%	%	mg/kg	%	%	%	Mg/m3	O.	00	%	Ont v	Jiay
0 - 0.1		0.3A	187B	90F	0.02	25B 4.58	3B 1.50	19	63C	29	6	1
0.1 - 0.2		0.16A	5B		0.02	23B	1.60	42	60C	32	6	2
0.2 - 0.3		0.11A	4B		0.01	6B	1.60	47	56C	35	7	3
0.3 - 0.41		A8.0			0.01	-	1.60	46	72C	20	6	3
0.41 - 0.48		0.13A			0.01	-	1.80	26	52C	20	7	51
0.48 - 0.6		A80.0	2B	80F	0.01	3B 3.36		28	47C	16	7	31
0.6 - 0.8							1.80	33	55C	20	7	19
0.8 - 0.9			<1B				1.80	36	61C	20	4	14
0.9 - 0.94							1.30	35				
Depth	COLE				lumetric V				K sat	:	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 1	5 Bar	mm/h	1	mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.3

0.3 - 0.41 0.41 - 0.48

0.41 - 0.48 0.48 - 0.6 0.6 - 0.8 0.8 - 0.9 0.9 - 0.94

Project Name: NAR

Project Code: NAR Site ID: B797 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

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 - CI(%) - 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 F10_NR_FS Fine sand (%) - Not recorded Silt (%) - Not recorded Silt (%) - Not recorded Bulk density - g/cm3