Project Name: NAR

Project Code: NAR Site ID: B796 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:G.D. HubbleLocality:Catchment 4.Date Desc.:20/09/72Elevation:242 metres

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

Northing/Long.: 150.906111111111 Runoff: Moderately rapid
Easting/Lat.: -25.6958333333333 Drainage: Moderately well drained

Geology

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

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 0.83 m

deep,Adamellite

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Lower-slopeRelief:30 metresElem. Type:HillslopeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMottled Eutrophic Brown ChromosolPrincipal Profile Form:Dy2.21

ASC Confidence: 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, Aristida species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology							
A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy loam; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -					
A21	0.1 - 0.2 m	Brown (10YR4/3-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -					
A22	0.2 - 0.27 m	Brown (7.5YR4/3-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Abrupt change to -					
B2	0.27 - 0.3 m	Brown (7.5YR5/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots;					
B2	0.3 - 0.45 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -					
B2	0.45 - 0.6 m	Strong brown (7.5YR5/6-Moist); , 5YR56, 10-20% , 0-5mm, Distinct; , 10YR76, 10-20% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots;					
B2	0.6 - 0.75 m	Yellowish brown (10YR5/6-Moist); , 2.5YR36, 10-20% , 0-5mm, Distinct; , 10YR86, 10-20% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -					
В3	0.75 - 0.83 m	Yellowish brown (10YR5/6-Moist); , 10YR86, 10-20% , 0-5mm, Prominent; , 10-20% , 0-5mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -					

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0.83 - 0.9 m

Yellowish brown (10YR5/6-Moist); , 10YR86, 20-50% , 0-5mm, Prominent; , 5G61, 20-50% , 0-5mm, Prominent; Coarse sandy loam; Massive grade of structure; Moderately moist; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-

1mm) roots;

Morphological Notes

Observation Notes

GRAVELS QUARTZ AND FELDSPAR, FELDSPARS DOMINANT IN A2 HORIZON. BELOW 45CM PROMINENT SPECKLING OF WEATHERING MINERALS - DOMINANTLY FELDSPARS. LAYERS RENUMBERED 6-10-92

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Project Name: Project Code: Agency Name: NAR

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CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pН	1:5 EC	Excl	nangeable	Cations		Exc	hangeabl	e CEC		ECEC	Е	SP
	P			Иg	K	Na		Acidity				_	
m		dS/m				Cmol (+)/kg					•	%	
			a =1.4										
0 - 0.1	7H	0.038A	3.7K	0.78	0.23	0.0	4	0.7D					
0.1 - 0.2	7.1H	<0.03A											
0.2 - 0.27	7.1H	<0.03A											
0.27 - 0.3	7H	<0.03A	,				_						
0.3 - 0.45	7H	<0.03A	5.5K	4.7	0.23	0.1	7	5D					
0.45 - 0.6	6.8H	<0.03A					_						
0.6 - 0.75	6.6H	<0.03A	5.9K	6.6	0.27	0.2	8	3D					
0.75 - 0.83	6.6H	0.035A											
0.83 - 0.9	6.8H	<0.03A											
Depth	CaCO3	Organic	Avail.	Total	Total	-	Γotal	Bulk	Pa	rticle	Size	Analysis	
Борин	oucoc	C	P	P	N		K	Density		CS	FS	Silt	
m	%	%	mg/kg	%	%		%	Mg/m3	-		%		,
0 - 0.1		0.49A	183B	150F	0.04	13B	4.46B	1.30	16	59C	29	7	3
0.1 - 0.2		0.28A	12B		0.02	28B		1.40	33	66C	22	7	5 7
0.2 - 0.27		0.16A	5B		0.01	9B		1.80	70	64C	23	5	7
0.27 - 0.3								1.40	5				
0.3 - 0.45		0.27A	4B	230F	0.03	85B	2.68B	1.50	2	34C	14	7	45
0.45 - 0.6		0.17A			0.01	8B		1.60	6	42C	17	9	34
0.6 - 0.75								1.70	5	43C	16	10	32
0.75 - 0.83								1.80	11	54C	16	9	21
0.83 - 0.9			2B					1.90	19	63C	14	9	12
Depth	COLE		Grav	imetric/Vo	lumetric V	/ater	Conten	ts		Ksa	at	K unsat	
	-	Sat.	0.05 Bar	0.1 Bar	0.5 Bar				15 Bar				

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

0 - 0.1 0.1 - 0.2 0.2 - 0.27 0.27 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.75 0.75 - 0.83 0.83 - 0.9

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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
15_NR_MG
15_NR_NA
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
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
P10_NR_FS
P10_NR_FS
P10_NR_Z
P3A_NR
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded