

Project Name: NAR
Project Code: NAR **Site ID:** B578 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	Narayan Research Station.
Date Desc.:	13/08/69	Elevation:	290 metres
Map Ref.:	Sheet No. : 9646 1:100000	Rainfall:	712
Northing/Long.:	150.883333333333	Runoff:	Rapid
Easting/Lat.:	-25.683333333333	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PRt	Substrate Material:	Undisturbed soil core, 0.77 m deep, Adamellite

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Crest	Relief:	24 metres
Elem. Type:	Hillcrest	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Magnesic Red Kurosol		Principal Profile Form:	Dr3.41
ASC Confidence:		Great Soil Group:	Red podzolic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species
Mid Strata - Shrub, , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.2 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.04 - 0.1 m	Very pale brown (10YR7/4-Dry); , 10YR63, 10-20% , 0-5mm, Faint; , 10YR72, 10-20% , 0-5mm, Faint; Coarse sandy loam; Massive grade of structure; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.1 - 0.2 m	Very pale brown (10YR7/4-Dry); , 10YR82, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Coarse sandy loam; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, fine (1-2mm) roots; Clear change to -
A3	0.2 - 0.3 m	Very pale brown (10YR7/4-Dry); , 10YR82, 20-50% , 0-5mm, Faint; , 2.5YR68, 20-50% , 0-5mm, Faint; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; 20-50%, Substrate material, coarse fragments; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B21	0.3 - 0.54 m	Red (2.5YR4/5-Dry); , 10YR63, 20-50% , 5-15mm, Distinct; , 10YR61, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 5.2 (pH meter); Gradual change to -
B22	0.54 - 0.6 m	Brown (10YR5/3-Dry); , 10R36, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 5.3 (pH meter); Clear change to -
B23	0.6 - 0.77 m	Dark red (10R3/6-Dry); , 10YR52, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Light medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Field pH 5 (pH meter); Clear change to -

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C	0.77 - 0.9 m	Red (2.5YR4/6-Dry); , 5YR68, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Clay loam, coarse sandy; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, coarse fragments; Field pH 5 (pH meter); Clear change to -
C	0.9 - 1.2 m	Red (2.5YR4/6-Dry); , 10YR52, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Clay loam, coarse sandy; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, coarse fragments; Field pH 5.3 (pH meter);

Morphological Notes

Observation Notes

QUARTZ AND FELDSPAR GRAVELS:

Site Notes

MUNDUBBERA

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.04	5.7H	0.02B	1.1K	1.4	0.48	0.13	6.4D		
0.04 - 0.1	5.1H	0.011B	0.11K	0.47	0.26	0.07	5.8D		
0.1 - 0.2	5.2H	0.01B							
0.2 - 0.3	5.2H	0.013B	0.02K	1.1	0.31	0.19	6.6D		
0.3 - 0.54	5.1H	0.02B	0.02K	1.2	0.27	0.32	5.7D		
0.54 - 0.6	5.1H	0.02B							
0.6 - 0.77	4.9H	0.03B	0.02K	5.1	0.39	1.4	12.5D		
0.77 - 0.9	4.8H	0.044B							
0.9 - 1.2	4.6H	0.086B							

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 - 0.04		2.51E	18B	0.019F	0.103B	0.43B			57C	20	7	13
0.04 - 0.1		0.91E	3B	0.02F	0.049B	0.51B			53C	22	9	14
0.1 - 0.2		0.65E		0.02F	0.039B	0.51B			48C	22	11	19
0.2 - 0.3		0.68E		0.022F	0.051B	0.5B			36C	19	9	35
0.3 - 0.54		0.35E	7B	0.018F	0.04B	0.3B			21C	11	8	62
0.54 - 0.6		0.21E		0.014F	0.039B	0.22B			19C	11	7	60
0.6 - 0.77		0.09E		0.01F	0.039B	0.16B			30C	17	7	44
0.77 - 0.9		0.08E		0.01F	0.03B	0.15B			46C	24	11	18
0.9 - 1.2				0.011F		0.2B			46C	23	10	19

[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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
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_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