Project Name: NAR

Project Code: NAR B582 Observation ID: 1 Site ID:

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality: Narayen Research Station.

Date Desc.: Elevation: 16/08/69 275 metres

Sheet No.: 9046 1:100000 Map Ref.: Rainfall: 712

Northing/Long.: 150.866666666667 Runoff: Moderately rapid -25.65 Moderately well drained Easting/Lat.: Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: **Substrate Material:** Undisturbed soil core, 2 m Czs

deep, Unconsolidated material

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-Pattern Type: Pediment

10%

Morph. Type: Mid-slope Relief: 24 metres Gently inclined Hillslope Slope Category: Elem. Type: Slope: 4.4 % Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Magnesic Mottled-Subnatric Yellow Sodosol Dy3.41 **Principal Profile Form:**

ASC Confidence: Great Soil Group: Yellow podzolic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals **Vegetation:**

Low Strata - Tussock grass, , . *Species includes - Aristida species

Mid Strata - Shrub, , . *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Eucalyptus crebra, Eucalyptus polycarpa

<u>Surface Coarse Fragments:</u> 2-10%, fine gravelly, 2-6mm, , Substrate material

<u>Profi</u>	le Morphology						
A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very fine (0.07 1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Sharp change to -					
A2	0.05 - 0.1 m	Brown (10YR5/3-Moist); ; Loamy sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Sharp change to -					
A2	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); ; Sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots;					
A2	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); ; Sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;					
A2	0.3 - 0.41 m	Pale brown (10YR6/3-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abrupt change to -					
А3	0.41 - 0.45 m	White (10YR8/2-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abrupt change to -					
B21	0.45 - 0.6 m	Brownish yellow (10YR6/6-Dry); , 10YR63, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Very					

B22 0.6 - 0.75 m Red (2.5YR4/8-Dry); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 10YR62, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments;

firm consistence; 10-20%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Gradual change

Gradual change to -

to -

Projec	t Code: NA	AR AR Site ID: B582 Observation ID: 1 SIRO Division of Soils (QLD)
B22	0.75 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 20-50% , 5-15mm, Prominent; , 2.5YR48, 20-50% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Gradual change to -
B22	0.9 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B22	1.2 - 1.28 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 10R46, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Clear change to -
B23	1.28 - 1.5 m	Grey (10YR6/1-Dry); , 10YR66, 2-10% , 15-30mm, Prominent; , 10R46, 2-10% , 15-30mm, Prominent; Heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B23	1.5 - 1.65 m	Grey (10YR6/1-Dry); , 10R46, 10-20% , 15-30mm, Prominent; , 10YR66, 10-20% , 15-30mm, Prominent; Sandy medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
В3	1.65 - 1.8 m	Light grey (10YR7/1-Dry); , 10YR58, 0-2% , 15-30mm, Prominent; , 0-2% , 15-30mm, Prominent; Sandy medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments;

Morphological Notes Observation Notes

Site Notes

MUNDUBBERA

NAR

NAR Site ID: B582 Observation ID: 1

Project Name: Project Code: Agency Name: CSIRO Division of Soils (QLD)

Depth	рН	1:5 EC		hangeable	Cations K	NI-		angeable	CEC	ı	ECEC	E	SP
m		dS/m	Ja I	Mg	N.	Na Cmo	I (+)/kg	ciaity				·	%
0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.41	6.5H 6H 5.5H 5.4H 5.4H	0.01B 0.01B 0.01B 0.01B 0.01B	1.1K 0.26K	0.49 0.39	0.09 0.07	0.04 0.02		2.1D 2.3D					
0.41 - 0.45 0.45 - 0.6 0.6 - 0.75 0.75 - 0.9	5.6H 5.6H 5.5H 5.4H	0.012B 0.023B 0.033B 0.043B	0.01K 0.01K	1.6 3.8	0.02 0.02	0.19 0.41		3.1D 3.2D					
0.9 - 1.2 1.2 - 1.28	5.2H 4.9H	0.065B 0.06B	0.01K	4.7	0.02	0.91		4.2D					
1.28 - 1.5 1.5 - 1.65	5.1H 5.2H	0.076B 0.071B	0.1K	0.6	0.02	1.5		3.7D					
1.65 - 1.8	5H	0.1B	0.33K	5.8	0.05	1.6		3.6D					
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %		otal K %	Bulk Density Mg/m3	Pa GV	rticle CS	Size / FS %	Analysis Silt	
0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.41 0.41 - 0.45 0.45 - 0.6 0.6 - 0.75 0.75 - 0.9 0.9 - 1.2 1.2 - 1.28 1.28 - 1.5 1.5 - 1.65 1.65 - 1.8		0.57E 0.31E	7B 7B 8B	0.024F 0.008F 0.008F 0.001F 0.015F 0.014F 0.012F 0.009F 0.005F	= 0.01 = 0.02 = 0.03 = 0.02 = 0.00 = 0.00	6B (() () () () () () () () () () () () ()	0.09B		7 8 9 15 26 32 12 16 33 33 34 23 19	55C 58C 54C 52C 48C 39C 27C 25C 30C 32C 39C 29C 39C 36C	33 31 34 34 34 25 17 15 16 19 18 15 17	3 4 4 6 5 6 7 7 5 6 5 6	5 6 7 9 11 29 51 52 46 44 36 50 36 38
Depth m	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	olumetric V 0.5 Bar g - m3/m	1 Ba			Bar	K sa		K unsat	

0 - 0.05 0.05 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.41 0.41 - 0.45 0.45 - 0.6 0.6 - 0.75 0.75 - 0.9 0.9 - 1.2 1.2 - 1.28 1.28 - 1.5 1.5 - 1.65

Project Name: Project Code: Agency Name: NAR

NAR Site ID: B56 CSIRO Division of Soils (QLD) B582 Observation ID: 1

1.65 - 1.8

Project Name: NAR

Project Code: NAR Site ID: B582 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

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

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_GRAV Gravel (%)

P10_NR_C
P10_NR_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10_NR_FS
P10_NR_Z
Fine sand (%) - Not recorded
Silt (%) - Not recorded