

Project Name: NAR
Project Code: NAR **Site ID:** B583 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	17/08/69	Elevation:	290 metres
Map Ref.:	Sheet No. : 9046 1:100000	Rainfall:	715
Northing/Long.:	150.8	Runoff:	Moderately rapid
Easting/Lat.:	-25.6833333333333	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, 3.1 m deep, Lacustrine Sediment

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Endocalcareous-Endohypersodic Self-Mulching Black Vertisol	Mapping Unit:	N/A
		Principal Profile Form:	Gn3.43
ASC Confidence:	All necessary analytical data are available.	Great Soil Group:	Black earth

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

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

Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Acacia harpophylla, Casuarina cristata,

Brachychiton

rupestre

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark reddish brown (5YR3/2-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Granular; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Many, fine (1-2mm) roots; Clear change to -
A1	0.05 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Granular; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Many, medium (2-5mm) roots; Clear change to -
B2	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; 2-5 mm, Granular; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Many, medium (2-5mm) roots; Clear change to -
B2	0.2 - 0.3 m	Dark reddish brown (5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Many, coarse (>5mm) roots; Gradual change to -
B2	0.3 - 0.45 m	Dark brown (7.5YR3/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Many, coarse (>5mm) roots; Gradual change to -
B2	0.45 - 0.6 m	Dark reddish grey (5YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; 5-10 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Many, coarse (>5mm) roots; Gradual change to -

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B2	0.6 - 0.9 m	Dark reddish grey (5YR4/2-Moist); , 5YR44, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; 5-10 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Many, fine (1-2mm) roots; Gradual change to -
B2	0.9 - 1.2 m	Reddish brown (5YR4/3-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; 5-10 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, , Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Many, fine (1-2mm) roots; Gradual change to -
B2	1.2 - 1.5 m	Reddish brown (5YR4/3-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; 10-20 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, , Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Many, very fine (0-1mm) roots; Gradual change to -
B2	1.5 - 1.8 m	Reddish brown (5YR4/3-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; 10-20 mm, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Common, very fine (0-1mm) roots; Gradual change to -
B2	1.8 - 2.1 m	Reddish brown (5YR4/3-Moist); , 10YR42, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; 10-20 mm, Lenticular; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Many, very fine (0-1mm) roots; Gradual change to -
B2	2.1 - 2.25 m	Reddish brown (5YR4/3-Moist); , 10YR42, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; , Lenticular; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Many, very fine (0-1mm) roots; Gradual change to -
B31	2.25 - 2.4 m	Dark greyish brown (10YR4/2-Moist); , 5YR43, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Heavy clay; , Lenticular; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Common, very fine (0-1mm) roots; Gradual change to -
B31	2.4 - 2.7 m	Dark greyish brown (10YR4/2-Moist); , 5YR43, 0-2% , 5-15mm, Faint; , 0-2% , 5-15mm, Faint; Heavy clay; , Lenticular; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots; Gradual change to -
B32	2.7 - 2.88 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; , Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots; Gradual change to -
B32	2.88 - 3 m	Yellowish brown (10YR5/5-Moist); ; Heavy clay; , Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots; Gradual change to -
B32	3 - 3.1 m	Yellowish brown (10YR5/5-Moist); ; Heavy clay; , Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots; Clear change to -
C	3.1 - 3.3 m	Yellowish brown (10YR5/5-Moist); ; Light medium clay; , Angular blocky; Moderately moist; Firm consistence; 2-10%, Substrate material, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots; Gradual change to -
C	3.3 - 3.6 m	Yellowish brown (10YR5/5-Moist); , 10YR64, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Medium clay; Massive grade of structure; 2-10%, Substrate material, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots; Diffuse change to -
C	3.6 - 3.67 m	Yellowish brown (10YR5/5-Moist); , 10YR64, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Light medium clay; Massive grade of structure; 10-20%, Substrate material, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

0-5CM POROUS GRANULAR STRUCTURE:.45-2.4M CALCAREOUS SEGREGATIONS BOTH SOFT AND NODULAR:

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Site Notes

MUNDUBBERA

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[illegible]

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0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.45
0.45 - 0.6
0.6 - 0.9
0.9 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.25
2.25 - 2.4
2.4 - 2.7
2.7 - 2.88
2.88 - 3
3 - 3.1
3.1 - 3.3
3.3 - 3.6
3.6 - 3.67

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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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2_LOI	Loss on Ignition (%)
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 H ₂ SO ₄ (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