

Project Name: NAR
Project Code: NAR **Site ID:** B805 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|-------------------------|
| Desc. By: | G.D. Hubble | Locality: | |
| Date Desc.: | 01/06/72 | Elevation: | 300 metres |
| Map Ref.: | Sheet No. : 9046 1:100000 | Rainfall: | 716 |
| Northing/Long.: | 150.783333333333 | Runoff: | Rapid |
| Easting/Lat.: | -25.6980555555556 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|-----------------------|------------------------------------|------------------------------------------|
| ExposureType: | Undisturbed soil core | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | PLa | Substrate Material: | Undisturbed soil core, 1 m deep, No Data |

Land Form

| | | | |
|-------------------------|------------------------------|------------------------|-----------|
| Rel/Slope Class: | Undulating rises 9-30m 3-10% | Pattern Type: | Rises |
| Morph. Type: | No Data | Relief: | 30 metres |
| Elem. Type: | Pediment | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

| | | |
|-----------------------------------------------------------|--------------------------------|--------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Epicalcareous-Endohypersodic Self-Mulching Black Vertosol | Principal Profile Form: | Gn3.43 |

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Black earth

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1p | 0 - 0.05 m | Black (5YR2/1-Moist); ; Light clay; Moderate grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Andesite, coarse fragments; Field pH 7.8 (pH meter); Common, fine (1-2mm) roots; Abrupt change to - |
| A2p | 0.05 - 0.1 m | Black (5YR2/1-Moist); ; Light clay; Moderate grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Andesite, coarse fragments; Field pH 7.8 (pH meter); Common, fine (1-2mm) roots; Clear change to - |
| B21 | 0.1 - 0.2 m | Very dark grey (5YR3/1-Moist); ; Medium clay (Heavy); Strong grade of structure, 2-5 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Andesite, coarse fragments; Field pH 8 (pH meter); Common, fine (1-2mm) roots; Gradual change to - |
| B22 | 0.2 - 0.3 m | Very dark grey (5YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to - |
| B22 | 0.3 - 0.45 m | Very dark grey (7.5YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (pH meter); Common, fine (1-2mm) roots; Gradual change to - |
| B23 | 0.45 - 0.6 m | Dark reddish brown (5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (pH meter); Common, fine (1-2mm) roots; Gradual change to - |
| B23 | 0.6 - 0.8 m | Dark reddish brown (5YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (pH meter); Few, fine (1-2mm) roots; Clear change to - |

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|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B3 | 0.8 - 0.9 m | Reddish brown (5YR4/4-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9 (pH meter); Few, fine (1-2mm) roots; Gradual change to - |
| B3C | 0.9 - 1.2 m | Yellow (10YR7/5-Moist); , 10YR54, 20-50% , 15-30mm, Distinct; , 5YR44, 20-50% , 15-30mm, Distinct; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 10-20%, angular, Substrate material, coarse fragments; Common (10 - 20 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (pH meter); Few, fine (1-2mm) roots; Gradual change to - |
| B3C | 1.2 - 1.5 m | Pale yellow (2.5Y7/4-Moist); , 10YR54, 20-50% , 5-15mm, Distinct; , 5YR44, 20-50% , 5-15mm, Distinct; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Many (20 - 50 %), Manganiferous, , Laminae; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (pH meter); Few, fine (1-2mm) roots; Gradual change to - |
| B3C | 1.5 - 1.7 m | Pale yellow (2.5Y7/4-Moist); , 10YR54, 20-50% , 5-15mm, Distinct; , 5YR44, 20-50% , 5-15mm, Distinct; Light clay; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Many (20 - 50 %), Manganiferous, , Laminae; Few, very fine (0-1mm) roots; Clear change to - |
| B3C | 1.7 - 1.8 m | Yellowish brown (10YR5/4-Moist); , 2.5Y74, 20-50% , 5-15mm, Distinct; , 5YR44, 20-50% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Many (20 - 50 %), Manganiferous, , Laminae; Few, very fine (0-1mm) roots; |

Morphological Notes

Observation Notes

0-10CM POROUS GRANULAR STRUCTURE. WELL-DEVELOPED SLICKENSIDES BELOW 45CM (SLIGHT ABOVE). ESSENTIALLY C HORIZON WITH CLAYVEINS AND POCKETS BELOW 90CM. VEGETATION PREVIOUSLY BRIGALOW BELAH FOREST.

Site Notes

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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 Cmol (+)/kg | Acidity | | % |
| 0 - 0.05 | 7.8H | 0.1C | 21.6K | 5.2 | 2.5 | 0.58 | 22.6D | | |
| 0.05 - 0.1 | 7.7H | 0.04C | 17.2K | 5.9 | 1.5 | 0.6 | 23.5D | | |
| 0.1 - 0.2 | 8.2H | 0.03C | 14.2K | 7 | 0.3 | 1.2 | 17.8D | | |
| 0.2 - 0.3 | 8.8H | 0.04C | | | | | | | |
| 0.3 - 0.45 | 9H | 0.14C | 12.5K | 12.2 | 0.24 | 3.8 | 16.6D | | |
| 0.45 - 0.6 | 9.1H | 0.23C | | | | | | | |
| 0.6 - 0.8 | 9.1H | 0.36C | 8.5K | 12 | 0.17 | 6.1 | 12D | | |
| 0.8 - 0.9 | 9.2H | 0.37C | | | | | | | |
| 0.9 - 1.2 | 9.4H | 0.52C | 6.5K | 10.4 | 0.06 | 8.2 | 8.6D | | |
| 1.2 - 1.5 | 9.1H | 0.7C | | | | | | | |
| 1.5 - 1.7 | 9.1H | 0.71C | | | | | | | |
| 1.7 - 1.8 | 8.9H | 0.76C | | | | | | | |

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Laboratory Analyses Completed for this profile

| | |
|-----------|------------------------------------------------------------------|
| 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 |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 2A1 | Air-dry moisture content |
| 3A_TSS | Electrical conductivity or soluble salts - Total soluble salts % |
| 4_NR | pH of soil - Not recorded |
| 5_NR | Water soluble Chloride - Cl(%) - Not recorded |
| 6A1 | Organic carbon - Walkley and Black |
| 7_NR | Total nitrogen (%) - 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 |