**Project Name:** GH
**Project Code:** GH **Site ID:** CP2 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (NSW)

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | J. Loveday | **Locality:** | Woolsides cotton area |
| **Date Desc.:** | 01/10/68 | **Elevation:** | 120 metres |
| **Map Ref.:** | Sheet No. : 8029 1:100000 | **Rainfall:** | 400 |
| **Northing/Long.:** | 145.9 | **Runoff:** | Very slow |
| **Easting/Lat.:** | -34.3833333333333 | **Drainage:** | Imperfectly drained |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Undisturbed soil core | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | No Data | **Substrate Material:** | Slightly porous, Unconsolidated material (unidentified) |

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | Level plain <9m <1% | **Pattern Type:** | Alluvial plain |
| **Morph. Type:** | Flat | **Relief:** | No Data |
| **Elem. Type:** | Plain | **Slope Category:** | Level |
| **Slope:** | 0 % | **Aspect:** | 0 degrees |

**Surface Soil Condition (dry):** Recently cultivated

**Erosion:**

## Soil Classification

**Australian Soil Classification:**
Epihypersodic-Endocalcareous Epipedal Red Vertosol
**ASC Confidence:**
All necessary analytical data are available.

**Mapping Unit:** N/A
**Principal Profile Form:** Ug5.38
**Great Soil Group:** Red clay

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:**

## Profile Morphology

| | |
|---|---|
| 0 - 0.1 m | Brown (7.5YR4/2-Moist); ; Medium clay; 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.8 (pH meter); |
| 0.1 - 0.2 m | Dark reddish brown (5YR3/3-Moist); ; Heavy clay; 10-20 mm, Angular blocky; Very firm consistence; |
| 0.2 - 0.3 m | Reddish brown (5YR4/3-Moist); ; Heavy clay; 10-20 mm, Angular blocky; Very firm consistence; Field pH 8.3 (pH meter); |
| 0.3 - 0.4 m | Reddish brown (5YR4/3-Moist); ; Heavy clay; 10-20 mm, Angular blocky; Very firm consistence; |
| 0.4 - 0.5 m | Reddish brown (5YR4/4-Moist); ; Heavy clay; 10-20 mm, Angular blocky; Very firm consistence; Field pH 8.9 (pH meter); |
| 0.5 - 0.6 m | Reddish brown (5YR4/4-Moist); ; Heavy clay; 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; |
| 0.6 - 0.7 m | Yellowish red (5YR4/5-Moist); ; Heavy clay; 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.1 (pH meter); |
| 0.7 - 0.8 m | Yellowish red (5YR4/5-Moist); , 7.5YR54, 20-50% ; , 20-50% ; Medium clay; 10-20 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Calcareous, , Concretions; |
| 0.8 - 0.9 m | Light yellowish brown (10YR6/4-Moist); , 7.5YR42; , 5YR56; Medium clay; 10-20 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); |
| 0.9 - 1 m | Light yellowish brown (10YR6/4-Moist); , 7.5YR54; , 5YR56; Medium clay; 10-20 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Calcareous, , Concretions; |

## Morphological Notes

## Observation Notes

ALLUVIUM

## Site Notes

BEHEREMBAH

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.1 | 7.8A | 0.16A | 14.2K | 5.7 | 1.9 | 1 | 1.9D | 25.4J | | 3.94 |
| | 7.8A | 0.15A | 15.4K | 7 | 2.1 | 0.79 | | 27.2J | | 2.90 |
| 0 - 0.1 | 7.8A | 0.16A | 14.2K | 5.7 | 1.9 | 1 | 1.9D | 25.4J | | 3.94 |
| | 7.8A | 0.15A | 15.4K | 7 | 2.1 | 0.79 | | 27.2J | | 2.90 |
| 0.1 - 0.2 | | | | | 1.9 | | | | | |
| 0.2 - 0.3 | 8.3A | 0.13A | 11.9K | 13.1 | 1.3 | 3.4 | | 34.7J | | 9.80 |
| 0.4 - 0.5 | 8.9A | 0.25A | | | | | | | | |
| 0.6 - 0.7 | 9.1A | 0.47A | | | | | | | | |
| 0.8 - 0.9 | 8.9A | 0.81A | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis GV | CS | FS | Silt | Clay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.1 | 0.05A | 1.12D | 58A | | | | | | 12D | 33 | 8 | 44 |
| | | 1.1D | 69A | | | | | | 11D | 33 | 10 | 46 |
| 0 - 0.1 | 0.05A | 1.12D | 58A | | | | | | 12D | 33 | 8 | 44 |
| | | 1.1D | 69A | | | | | | 11D | 33 | 10 | 46 |
| 0.1 - 0.2 | | | | | | | | | | | | |
| 0.2 - 0.3 | 0.07A | | 3A | | | | | | | | | |
| 0.4 - 0.5 | | | 2A | | | | | | | | | |
| 0.6 - 0.7 | | | 3A | | | | | | | | | |
| 0.8 - 0.9 | | | 2A | | | | | | | | | |

| 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 | mm/h |
| 0 - 0.1 | | | | | | | | | | |
| 0 - 0.1 | | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | | |
| 0.6 - 0.7 | | | | | | | | | | |
| 0.8 - 0.9 | | | | | | | | | | |

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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_CEC | CEC - 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 |
| 19A1 | Carbonates - rapid titration |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5A2 | Chloride - 1:5 soil/water extract, automated colour |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 9B_9C | Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable |
| P10_PB_C | Clay (%) - Plummet balance |
| P10_PB_CS | Coarse sand (%) - Plummet balance |
| P10_PB_FS | Fine sand (%) - Plummet balance |
| P10_PB_Z | Silt (%) - Plummet balance |