**Project Name:** COL
**Project Code:** COL **Site ID:** B459 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (QLD)

## Site Information

**Desc. By:** R.F. Isbell
**Date Desc.:** 18/04/61
**Map Ref.:** Sheet No. : 8456 1:100000
**Northing/Long.:** 147.863888888889
**Easting/Lat.:** -20.8916666666667
**Locality:**
**Elevation:** No Data
**Rainfall:** 686
**Runoff:** Slow
**Drainage:** Imperfectly drained

## Geology

**ExposureType:** Soil pit
**Geol. Ref.:** Puw
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Auger boring, 1.7 m deep,No Data

## Land Form

**Rel/Slope Class:** No Data
**Morph. Type:** No Data
**Elem. Type:** Plain
**Slope:** 0 %
**Pattern Type:** No Data
**Relief:** No Data
**Slope Category:** Gently inclined
**Aspect:** No Data

## Surface Soil Condition (dry): Self-mulching

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Epicalcareous Self-Mulching Grey Vertosol
**ASC Confidence:**
All necessary analytical data are available.
**Mapping Unit:** N/A
**Principal Profile Form:** Ug5.24
**Great Soil Group:** Grey clay

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

## Vegetation:

Tall Strata - Tussock grass, , Closed or dense. *Species includes - Bothriochloa ewartiana, Heteropogon contortus

## Surface Coarse Fragments: No surface coarse fragments

## Profile Morphology

| | | |
|---|---|---|
| AB | 0 - 0.15 m | Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Weak consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Gradual |
| B2 | 0.3 - 0.46 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Gradual change to - |
| B2 | 0.61 - 0.76 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9 (pH meter); Gradual change to - |
| B2 | 0.91 - 1.07 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Gradual change to - |
| B2 | 1.37 - 1.52 m | Dark greyish brown (10YR4/2-Moist); ; Medium clay; Weak grade of structure, Lenticular; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.2 (pH meter); Gradual change to - |
| C | 1.68 - 1.83 m | Yellowish brown (10YR5/6-Moist); ; Medium clay; Massive grade of structure; Moderately moist; Weak consistence; 10-20%, Mudstone, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.2 (pH meter); |

## Morphological Notes

## Observation Notes

BANK PROFILE. 0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE.

## Site Notes

COLLINSVILLE

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable Acidity | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.15 | 8.4H | 0.04B | 52.2K | 7.6 | 0.51 | 0.4 | 0D | | | |
| 0.3 - 0.46 | 8.8H | 0.06B | | | | | | | | |
| 0.61 - 0.76 | 9H | 0.11B | 39.2K | 15.1 | 0.15 | 5.1 | 0D | | | |
| 0.91 - 1.07 | 8.7H | 0.24B | | | | | | | | |
| 1.37 - 1.52 | 8.2H | 0.62B | 39.6K | 18.9 | 0.14 | 6.2 | 0D | | | |
| 1.68 - 1.83 | 8.2H | 0.5B | | | | | | | | |

| 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 - 0.15 | 4.7C | 1A | 74C | 0.03F | 0.117B | | | 0 | 5C | 5 | 15 | 56 |
| 0.3 - 0.46 | | | 32C | 0.025F | | | | | | | | |
| 0.61 - 0.76 | 5C | 0.54A | | | 0.064B | | | 0 | 4C | 4 | 13 | 61 |
| 0.91 - 1.07 | | | | | | | | | | | | |
| 1.37 - 1.52 | 2.3C | | | | | | | | 2C | 2 | 13 | 64 |
| 1.68 - 1.83 | | | 230C | 0.046F | | | | | | | | |

| 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 - 0.15 | | | | | | | | | | |
| 0.3 - 0.46 | | | | | | | | | | |
| 0.61 - 0.76 | | | | | | | | | | |
| 0.91 - 1.07 | | | | | | | | | | |
| 1.37 - 1.52 | | | | | | | | | | |
| 1.68 - 1.83 | | | | | | | | | | |

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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 |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 5_NR | Water soluble Chloride - Cl(%) - Not recordede |
| 6A1 | Organic carbon - Walkley and Black |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9_NR | Available P (mg/kg) - Not recorded |
| 9A_NR | Total element - P(%) - Not recorded |
| 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 |