

Project Name: LBV
Project Code: LBV **Site ID:** B37 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|------------------------------|-------------------|------------------|
| Desc. By: | G.D. Hubble | Locality: | |
| Date Desc.: | 07/11/49 | Elevation: | 70 metres |
| Map Ref.: | Sheet No. : 8357 1:100000 | Rainfall: | 750 |
| Northing/Long.: | 147.3 | Runoff: | Moderately rapid |
| Easting/Lat.: | -20.3 | Drainage: | Well drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|--|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | CZA | Substrate Material: | Auger boring, 3 m deep, Porous, Unconsolidated material (unidentified) |

Land Form

| | | | |
|-------------------------|---------|------------------------|----------------|
| Rel/Slope Class: | No Data | Pattern Type: | Alluvial plain |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | Levee | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|----------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Mottled Eutrophic Yellow Chromosol | | Principal Profile Form: | Dy2.62 |
| ASC Confidence: | | Great Soil Group: | Yellow podzolic soil |
| All necessary analytical data are available. | | | |

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - Heteropogon contortus
Mid Strata - Shrub, , . *Species includes - Planchonia careya
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|--|
| A1 | 0 - 0.1 m | Greyish brown (10YR5/2-Moist); ; Loamy fine sand; Massive grade of structure; Dry; Very weak consistence; Field pH 6.6 (pH meter); Gradual change to - |
| A2 | 0.13 - 0.48 m | Light yellowish brown (10YR6/4-Moist); , 10YR52; Loamy fine sand; Massive grade of structure; Dry; Very weak consistence; Field pH 6.9 (pH meter); Gradual change to - |
| A3 | 0.51 - 1.02 m | Pale brown (10YR6/3-Moist); , 10YR65; Fine sand; Massive grade of structure; Dry; Weak consistence; Field pH 7 (pH meter); Gradual change to - |
| B1 | 1.04 - 1.27 m | Pale brown (10YR6/3-Moist); , 10YR65; Clayey fine sand; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.2 (pH meter); Clear change to - |
| B21 | 1.32 - 1.47 m | Light brown (7.5YR6/4-Moist); , 10YR64; Fine sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; Field pH 7.1 (pH meter); Gradual change to - |
| B22 | 1.47 - 1.93 m | Brown (7.5YR5/4-Moist); , 10YR64; , 2.5Y42; Fine sandy medium clay; Massive grade of structure; Moderately moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Soft segregations; Field pH 7.3 (pH meter); |

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

Observation ID: 1

Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|------|-----------------|-----------|-------------|----------------------|-----|-------|-----|
| m | | dS/m | | | | cmol (+)/kg | | | | % |
| 0 - 0.1 | 6.7H | 0.01B | 1.8K | 0.9 | 0.34 | 0.06 | 1.7D | | 4.8E | |
| 0.13 - 0.48 | 6.9H | 0.01B | | | | | | | | |
| 0.51 - 1.02 | 7.1H | 0.01B | 2K | 0.9 | 0.13 | 0.05 | 0.9D | | 4E | |
| 1.04 - 1.27 | 7.2H | 0.01B | | | | | | | | |
| 1.32 - 1.47 | 7.1H | 0.01B | | | | | | | | |
| 1.47 - 1.93 | 7.4H | 0.01B | 6.3K | 3.7 | 0.37 | 0.16 | 2D | | 12.5E | |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------------|-------|---------|--------|--------|-------|-------|---------|----------|-----|------|----------|------|
| m | % | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| | | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.1 | | 0.36E | 8C | 0.018F | 0.03B | | | | 14C | 72 | 7 | 6 |
| 0.13 - 0.48 | | 0.11E | | | 0.02B | | | | 12C | 73 | 7 | 7 |
| 0.51 - 1.02 | | | | | | | | | 11C | 74 | 7 | 8 |
| 1.04 - 1.27 | | | | | | | | | 11C | 17 | 6 | 12 |
| 1.32 - 1.47 | | | | | | | | | 10C | 62 | 7 | 20 |
| 1.47 - 1.93 | | | | | | | | | 10C | 52 | 11 | 27 |

[illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR | Sum of Ex. cations + Ex. acidity - 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 |
| 2_LOI | Loss on Ignition (%) |
| 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 recorded |
| 6Z | Organic carbon (%) - Not recorded |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9_NR | Available P (mg/kg) - Not recorded |
| 9A_NR | Total element - P(%) - Not recorded |
| 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 |