

Project Name: LBV
Project Code: LBV **Site ID:** B40 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|-------------------------|
| Desc. By: | G.D. Hubble | Locality: | |
| Date Desc.: | 09/11/49 | Elevation: | 70 metres |
| Map Ref.: | Sheet No. : 8357 1:100000 | Rainfall: | 750 |
| Northing/Long.: | 147.216666666667 | Runoff: | Moderately rapid |
| Easting/Lat.: | -20.15 | Drainage: | Moderately well drained |

Geology

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|----------------------|----------|------------------------------------|--|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | CZA | Substrate Material: | Soil pit, 1 m deep,Porous, Igneous rock (unidentified) |

Land Form

| | | | |
|-------------------------|------------------------------|------------------------|---------|
| Rel/Slope Class: | Undulating rises 9-30m 3-10% | Pattern Type: | Plain |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | Footslope | Slope Category: | No Data |
| Slope: | 4 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|--------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Basic Mottled-Subnatric Brown Sodosol | | Principal Profile Form: | Dy3.73 |
| ASC Confidence: | | Great Soil Group: | Solodic soil |
| All necessary analytical data are available. | | | |

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon contortus
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus dichromophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

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|-----|---------------|---|
| A1 | 0 - 0.15 m | Greyish brown (10YR5/2-Moist); ; Coarse sandy loam; Weak grade of structure, Granular; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 6 (pH meter); Gradual change to - |
| A2 | 0.15 - 0.25 m | Light brownish grey (10YR6/2-Moist); ; Sandy loam; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.8 (pH meter); Gradual change to - |
| A3 | 0.25 - 0.36 m | Pale brown (10YR6/3-Moist); ; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, coarse fragments; Field pH 6.2 (pH meter); Sharp change to - |
| B21 | 0.36 - 0.71 m | Yellowish brown (10YR5/6-Moist); , 2.5Y62; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6.9 (pH meter); Diffuse change to - |
| B22 | 0.71 - 1.02 m | Yellowish brown (10YR5/6-Moist); , 2.5Y60; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8 (pH meter); Diffuse change to - |
| C | 1.02 - 1.27 m | Brownish yellow (10YR6/6-Moist); , 10YR82; Light clay; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); |

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

Observation ID: 1

[illegible]

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Laboratory Analyses Completed for this profile

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|-----------|--|
| 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 |
| 19B_NR | Calcium Carbonate (CaCO ₃) - 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_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 |