Project Name: LBV
Project Code: LBV **Site ID:** B84 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 15/11/50
Map Ref.: Sheet No. : 8357 1:100000
Northing/Long.: 147.366666666667
Easting/Lat.: -20.0166666666667
Locality:
Elevation: 50 metres
Rainfall: 850
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CZS
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 1 m deep,Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Hypocalcic Hypernatric Brown Sodosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy2.33
Great Soil Group: Solonetz

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

Vegetation: Low Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, angular, Substrate material

Profile Morphology

A1	0 - 0.1 m	Pale brown (10YR6/3-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.1 (pH meter); Sharp, Irregular change to -
B21	0.1 - 0.28 m	Brown (10YR5/3-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
B22	0.28 - 0.64 m	Yellowish brown (10YR5/4-Moist); ; Light medium clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.6 (pH meter); Diffuse change to -
B3	0.64 - 0.94 m	Yellowish brown (10YR5/4-Moist); ; Light clay; Weak grade of structure, Angular blocky; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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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 - 0.1	6.1H	0.042B								
0.1 - 0.28	8.3H	0.178B								
0.28 - 0.64	9.7H	0.375B								
0.64 - 0.94	9.8H	0.354B								

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			6C									
0.1 - 0.28												
0.28 - 0.64												
0.64 - 0.94												

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									
0.1 - 0.28									
0.28 - 0.64									
0.64 - 0.94									

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Laboratory Analyses Completed for this profile

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
9_NR	Available P (mg/kg) - Not recorded