Project Name: LBV
Project Code: LBV **Site ID:** B77 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson
Date Desc.: 13/11/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.3
Easting/Lat.: -19.8333333333333
Locality:
Elevation: 22 metres
Rainfall: 850
Runoff: Very slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CZS
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Fan
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
Basic Regolithic Bleached Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc4.24
Great Soil Group: Siliceous sand

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

Vegetation:

Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon contortus, Phynchelytrum repens
Mid Strata - Shrub, , Sparse. *Species includes - Planchonia careya
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Greyish brown (2.5Y5/2-Moist); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Field pH 6.9 (pH meter); Gradual change to -
A2	0.1 - 0.3 m	Light brownish grey (2.5Y6/3-Moist); ; Coarse sand; Massive grade of structure; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Field pH 7 (pH meter); Gradual change to -
B2	0.3 - 0.48 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Moderately moist; Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Field pH 7.1 (pH meter); Gradual change to -
B2	0.48 - 1.02 m	Yellowish brown (10YR5/4-Moist); ; Coarse sand; Massive grade of structure; Moderately moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Field pH 7.2 (pH meter); Diffuse change to -
B2	1.02 - 1.65 m	Yellowish brown (10YR5/5-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Substrate material, coarse fragments; Field pH 7.2 (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	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.9H	0.01B								
0.1 - 0.3	7H	0.01B								
0.3 - 0.48	7.1H	0.01B								
0.48 - 1.02	7.2H	0B								
1.02 - 1.65	7.2H	0B								

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			39C	0.017F	0.06B			8	72C	16	6	4
0.1 - 0.3												
0.3 - 0.48								9	65C	23	6	6
0.48 - 1.02												
1.02 - 1.65								16	83C	10	3	4

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 - 0.3									
0.3 - 0.48									
0.48 - 1.02									
1.02 - 1.65									

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Laboratory Analyses Completed for this profile

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 recordede
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