Project Name: LBV
Project Code: LBV **Site ID:** B35 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson
Date Desc.: 02/11/49
Map Ref.: Sheet No. : 8357 1:100000
Northing/Long.: 147.25
Easting/Lat.: -20.3333333333333
Locality:
Elevation: 85 metres
Rainfall: 750
Runoff: Rapid
Drainage: Rapidly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CUI
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2.5 m deep,Porous, Sand

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Pediment
Slope: 0 %
Pattern Type: Pediplain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
Basic Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc4.21
Great Soil Group: No suitable group

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

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Grey (10YR5/1-Moist); ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 6.5 (pH meter); Clear change to -
A2	0.05 - 0.13 m	Greyish brown (10YR5/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 6.8 (pH meter); Abrupt change to -
A3	0.13 - 0.33 m	Greyish brown (10YR5/2-Moist); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 7 (pH meter); Gradual change to -
B1	0.33 - 0.69 m	Brownish yellow (10YR6/6-Moist); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 7.3 (pH meter); Gradual change to -
B2	0.69 - 0.84 m	Brownish yellow (10YR6/6-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.3 (pH meter); Gradual change to -
B2	0.84 - 1.17 m	Yellowish brown (10YR5/5-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.4 (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 - 0.05	6.6H	0.01B								
0.05 - 0.13	6.9H	0.01B								
0.13 - 0.33	7H	0.01B								
0.33 - 0.69	7.4H	0.01B								
0.69 - 0.84	7.4H	0.01B								
0.84 - 1.17	7.4H	0.01B								

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 - 0.05		0.73E	19C	0.011F	0.05B			7	54C	32	7	5
0.05 - 0.13												
0.13 - 0.33								37	53C	32	8	6
0.33 - 0.69												
0.69 - 0.84								44	57C	27	5	10
0.84 - 1.17												

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 - 0.05									
0.05 - 0.13									
0.13 - 0.33									
0.33 - 0.69									
0.69 - 0.84									
0.84 - 1.17									

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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
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