Project Name: BV
Project Code: BV **Site ID:** B443 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 08/03/61
Map Ref.: Sheet No. : 9343 1:100000
Northing/Long.: 152.351666666667
Easting/Lat.: -27.2661111111111
Locality:
Elevation: 213 metres
Rainfall: 960
Runoff: Rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: R-Jo
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.2 m deep,Sandstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 12.2 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Mesotrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Gn2.24
Great Soil Group: Yellow earth

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species, Imperata cylindrica
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus crebra, Eucalyptus punctata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam; Massive grade of structure; Fine (1-2mm) macropores, Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Gradual change
A2	0.15 - 0.34 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Very fine (0.075-1mm) macropores, Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B1	0.36 - 0.48 m	Strong brown (7.5YR5/6-Moist); ; Clay loam, fine sandy; Massive grade of structure; Very fine (0.075-1mm) macropores, Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.4 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B21	0.48 - 0.66 m	Strong brown (7.5YR5/8-Moist); , 5YR46; Fine sandy medium clay; Weak grade of structure, 5-10 mm; Massive grade of structure; Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B22	0.66 - 0.84 m	Brownish yellow (10YR6/6-Moist); , 5YR56; Fine sandy medium clay; Massive grade of structure; Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.9 (pH meter); Common, fine (1-2mm) roots; Diffuse
B3	0.84 - 1.14 m	Brownish yellow (10YR6/6-Moist); , 5YR56; Clay loam, fine sandy; Massive grade of structure; Moist; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
C	1.14 - 1.3 m	; Field pH 6 (pH meter); Few, fine (1-2mm) roots;

Morphological Notes

C Banded LG,YB,& R massive, weathered parent material.

Observation Notes

0-15CM POROUS GRANULAR GRADING TO MASSIVE.

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ESK

Site Notes

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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 - 0.15	6.2H	0.01B	2.3K	0.9	0.12	0.02	3.1D			
0.15 - 0.34	6.2H	0.01B	0.9K	0.7	0.08	0.02	2D			
0.36 - 0.48	6.4H	0.01B								
0.48 - 0.66	6H	0.01B	1.1K	3	0.26	0.15	4.6D			
0.66 - 0.84	5.9H	0.01B								
0.84 - 1.14	6H	0.01B	0.08K	2.8	0.14	0.14	2.2D			
1.14 - 1.3	6H	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 - 0.15		0.9A	4C	0.036F	0.073B			0	50C	25	12	11
0.15 - 0.34		0.3A			0.028B			2	49C	22	14	12
0.36 - 0.48		0.22A			0.025B			8	46C	22	14	19
0.48 - 0.66		0.28A	7C	0.044F	0.038B			2	33C	15	14	40
0.66 - 0.84		0.14A						0	34C	14	18	36
0.84 - 1.14		0.08A						0	38C	15	22	27
1.14 - 1.3				0.038F				0	45C	15	27	15

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 - 0.15									
0.15 - 0.34									
0.36 - 0.48									
0.48 - 0.66									
0.66 - 0.84									
0.84 - 1.14									
1.14 - 1.3									

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Laboratory Analyses Completed for this profile

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
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
6A1	Organic carbon - Walkley and Black
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