

Project Name: BV
Project Code: BV **Site ID:** B449 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	05/05/61	Elevation:	244 metres
Map Ref.:	Sheet No. : 9442 1:100000	Rainfall:	955
Northing/Long.:	152.683333333333	Runoff:	Rapid
Easting/Lat.:	-27.233333333333	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8.5 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached Mesotrophic Red Kandosol		Principal Profile Form:	Gn2.34
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus, Imperata cylindrica
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.13 m	Greyish brown (10YR5/2-Dry); ; Loamy coarse sand; Weak grade of structure, 5-10 mm, Subangular blocky; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Field pH 6.5 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
A2	0.13 - 0.3 m	Light grey (10YR7/2-Dry); ; Loamy coarse sand; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Field pH 6.6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A3	0.3 - 0.41 m	Very pale brown (10YR7/4-Dry); ; Coarse sandy loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B21	0.41 - 0.58 m	Reddish yellow (7.5YR6/6-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Moderately moist; Firm consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 6.2 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B22	0.58 - 0.79 m	Yellowish red (5YR5/6-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Moderately moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 5.7 (pH meter); Gradual change to -
B23	0.79 - 1.22 m	Dark red (2.5YR3/6-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 5.6 (pH meter); Diffuse change to -
B3	1.37 - 2.03 m	Dark reddish brown (2.5YR3/4-Moist); ; Coarse sandy loam; Massive grade of structure; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Field pH 5.6 (pH meter);

Morphological Notes

Observation Notes

BELOW 78CM FERROMANGANIFEROUS SEGREGATIONS BOTH SOFT AND CEMENTED SANDY NODULES:

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Site Notes

ESK

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.13	6.5H	0.01B	3K	0.67	0.14	0.01	1.1D		
0.13 - 0.3	6.6H	0.01B							
0.3 - 0.41	6.5H	0.01B							
0.41 - 0.58	6.2H	0.01B	1.1K	0.86	0.36	0.21	2.4D		
0.58 - 0.79	5.7H	0.01B							
0.79 - 1.22	5.6H	0.01B							
1.37 - 2.03	5.6H	0.01B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size FS	Analysis	
								GV	CS		Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.13		0.82A	4C	0.021F	0.077B			3	67C	16	9	6
0.13 - 0.3		0.24A			0.02B			3	68C	16	10	5
0.3 - 0.41		0.18A						8	64C	16	10	10
0.41 - 0.58		0.18A	3C	0.021F	0.022B			26	55C	15	9	21
0.58 - 0.79								17	52C	14	8	27
0.79 - 1.22		0.09A		0.029F	0.017B			3	48C	16	8	26
1.37 - 2.03								7	57C	16	9	19

[illegible]

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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 recorded
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