

Project Name: BV
Project Code: BV **Site ID:** B447 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	05/05/61	Elevation:	183 metres
Map Ref.:	Sheet No. : 9343 1:100000	Rainfall:	960
Northing/Long.:	152.351666666667	Runoff:	Rapid
Easting/Lat.:	-27.2708333333333	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	R-Jo	Substrate Material:	Auger boring, 3 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	14.9 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol		Principal Profile Form:	Gn2.15
ASC Confidence:		Great Soil Group:	Red earth

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus

Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Brown (7.5YR5/4-Dry); ; Sandy loam; Single grain grade of structure; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Dry; Weak consistence; Field pH 6.6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A3	0.2 - 0.3 m	Reddish brown (5YR4/4-Dry); ; Sandy loam; Single grain grade of structure; Common (1-5 per 0.01m2) Coarse (>5mm) macropores, Dry; Weak consistence; Field pH 6.7 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B1	0.3 - 0.58 m	Red (2.5YR4/6-Dry); ; Sandy clay loam (Light); Massive grade of structure; Coarse (>5mm) macropores, Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B1	0.58 - 0.79 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay (Light); Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.79 - 1.14 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay (Heavy); Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.8 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B2	1.14 - 1.52 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay (Heavy); Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.7 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B2	1.68 - 2.13 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay (Heavy); Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Field pH 6.7 (pH meter); Diffuse change to -
B3	2.13 - 3.05 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Field pH 6.5 (pH meter); Diffuse change to -

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3.51 - 3.96 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), ; Field pH 6.4 (pH meter); Diffuse change to -
3.96 - 4.32 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 20-50% , 5-15mm, Prominent; , 10YR81, 20-50% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

RED EARTH HEAVY TEXTURED.

Site Notes

ESK

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.2	6.6H	0.01B	3.4K	0.45	0.15	0.19	1.6D			
0.2 - 0.3	6.7H	0.01B	1.9K	0.66	0.1	0.06	1.6D			
0.3 - 0.58	6.8H	0.01B	1.8K	0.85	0.12	0.05	1.8D			
0.58 - 0.79	6.8H	0.01B	3K	1.5	0.19	0.1	2.7D			
0.79 - 1.14	6.8H	0.01B								
1.14 - 1.52	6.7H	0.01B	2.9K	1.7	0.23	0.12	3.6D			
1.68 - 2.13	6.7H	0.01B								
2.13 - 3.05	6.5H	0.01B								
3.51 - 3.96	6.4H	0.01B								
3.96 - 4.32	6.5H	0.01B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.2		0.69A	3C	0.024F	0.065B			1	54C	22	11	12
0.2 - 0.3		0.31A						0.033B	1	53C	23	11
0.3 - 0.58		0.18A	2C	0.024F	0.021B			2	50C	22	10	20
0.58 - 0.79		0.2A						0.022B	2	42C	18	9
0.79 - 1.14		0.11A		0.035F				2	37C	18	9	39
1.14 - 1.52		0.12A					3	37C	18	11	34	
1.68 - 2.13												
2.13 - 3.05								3	42C	16	10	35
3.51 - 3.96												
3.96 - 4.32								8	48C	18	17	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