

Project Name: BV
Project Code: BV **Site ID:** B444 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	1km along Bryden Rd from Brisbane Valley H'way.
Date Desc.:	03/05/61	Elevation:	60 metres
Map Ref.:	Sheet No. : 9443 1:100000	Rainfall:	960
Northing/Long.:	152.508333333333	Runoff:	Moderately rapid
Easting/Lat.:	-27.266666666667	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Rn	Substrate Material:	Soil pit, 0.9 m deep, Andesite

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Ridge	Relief:	60 metres
Elem. Type:	Hillcrest	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Melanic Eutrophic Grey Chromosol	Principal Profile Form:	Dd4.13
ASC Confidence:	Great Soil Group:	Prairie soil
All necessary analytical data are available.		

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.06 m	Very dark grey (10YR3/1-Moist); Very dark brown (10YR2/2-Dry); ; Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
A12	0.06 - 0.15 m	Very dark grey (10YR3/1-Moist); Very dark brown (10YR2/2-Dry); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Weak consistence; 10-20%, cobbly, 60-200mm, Gravel, coarse fragments; Field pH 6.5 (pH meter); Many, fine (1-2mm) roots; Clear, Wavy change to -
B21	0.15 - 0.36 m	Very dark grey (10YR3/1-Moist); , 7.5YR32; , 7.5YR44; Heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 7 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B22	0.36 - 0.58 m	Dark greyish brown (10YR4/2-Moist); , 2.5Y44; Heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
C	0.63 - 0.76 m	Yellow (10YR7/5-Dry); , 10YR42; Medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter); Few, fine (1-2mm) roots; Abrupt change to -
C	0.76 - 0.89 m	;

Morphological Notes

C Speckled by W, weat'd. p. m. with pkts. of gravelly clay

Observation Notes

STRONG SHEAR PLANE DEVELOPMENT IN B22:NATIVE VEGETATION WAS MID HIGH OPEN FOREST:EUCRE,EUMEL,EUTES:

Site Notes

ESK

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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 - 0.06	6.3H	0.02B	19.5K	6	1	0.2	7.7D			
0.06 - 0.15	6.6H	0.02B	17.7K	5.7	0.39	0.18	2.6D			
0.15 - 0.36	7.3H	0.02B	23K	10.1	0.13	0.72	0D			
0.36 - 0.58	8.6H	0.07B	31.8K	15.8	0.1	1.2	0D			
0.63 - 0.76	8H	0.03B								
0.76 - 0.89	8.7H	0.07B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		3.41A	52C	0.09F	0.286B			2	9C	23	26	32
0.06 - 0.15		1.66A			0.145B			21	12C	26	27	32
0.15 - 0.36		0.88A	1C	0.047F	0.096B			2	3C	17	20	58
0.36 - 0.58	0.01C	0.77A			0.095B			0	2C	14	16	64
0.63 - 0.76		7.6C										
0.76 - 0.89	3.3C	0.17A		0.096F								

[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
19B_NR	Calcium Carbonate (CaCO ₃) - 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