

Project Name: DD
Project Code: DD **Site ID:** B211 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Beckmann	Locality:	
Date Desc.:	01/11/53	Elevation:	469 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	660
Northing/Long.:	151.759444444445	Runoff:	Slow
Easting/Lat.:	-27.544444444445	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Tm	Substrate Material:	Soil pit, 0.74 m deep,Basalt

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Upper-slope	Relief:	46 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Endocalcareous Self-Mulching Red Vertosol		Principal Profile Form:	Ug5.37
ASC Confidence:		Great Soil Group:	Brown clay
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Danthonia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark reddish brown (5YR3/3-Dry); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Moderately moist; Firm consistence; Field pH 6.8 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
B2	0.06 - 0.46 m	Weak red (10R4/3-Dry); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 7.1 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B3	0.46 - 0.74 m	Red (10R4/6-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.3 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
C	0.74 - 1.75 m	; Field pH 8.4 (pH meter);

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

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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	6.8H	0.06B								
0.06 - 0.46	7.1H	0.03B	52.6K	17.8	0.9	0.4	10D			
0.46 - 0.74	8.3H	0.07B								
0.74 - 1.75	8.4H	0.09B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		3.83A	1441C	0.428F	0.308B			0.2	1C	6	10	76
0.06 - 0.46		1.51A						0.9	3C	8	10	74
0.46 - 0.74	4.3C	0.42A						21	19C	25	15	33
0.74 - 1.75	12.8C			0.337F								

[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 (CaCO3) - Not recorded
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 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