

Project Name: DD
Project Code: DD **Site ID:** B199 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	23/10/53	Elevation:	442 metres
Map Ref.:	Sheet No. : 9242 1:100000	Rainfall:	635
Northing/Long.:	151.575	Runoff:	Moderately rapid
Easting/Lat.:	-27.7566666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Jw	Substrate Material:	Soil pit, 0.66 m deep, Sandstone

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	15 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion: Minor or present (wind);

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dr2.22
ASC Confidence:		Great Soil Group:	Red-brown earth

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens, Danthonia species
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Reddish brown (5YR4/4-Dry); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 6.3 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
A3	0.08 - 0.15 m	Red (2.5YR5/6-Dry); ; Sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 5.4 (pH meter); Abundant, fine (1-2mm) roots; Gradual change to -
B1	0.15 - 0.23 m	Dark red (2.5YR3/6-Moist); ; Sandy medium clay; Massive grade of structure; Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 5.5 (pH meter); Many, fine (1-2mm) roots; Abrupt change to -
B2	0.23 - 0.46 m	Reddish brown (2.5YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 6 (pH meter); Many, fine (1-2mm) roots; Gradual change to -
B2	0.46 - 0.62 m	Red (2.5YR4/6-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Detrital sedimentary rock (unidentified), coarse fragments; Field pH 6.8 (pH meter); Gradual change to -
C	0.66 - 0.81 m	Brown (7.5YR4/4-Moist); , 2.5Y42; , 10R48; Sandy medium clay; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, Sandstone, coarse fragments; Common (10 - 20 %), Calcareous, , Nodules; Field pH 8.7 (pH meter);

Morphological Notes

Observation Notes

RED BROWN EARTH ACID VARIANT

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				Comol (+)/kg				%
0 - 0.08	6.3H	0.02B	8K	1.4	0.88	0	5.9D		16.2E	
0.08 - 0.15	5.4H	0.01B								
0.15 - 0.23	5.5H	0.01B								
0.23 - 0.46	6H	0.01B	14.9K	3.7	0.34	0.43	10D		29.4E	
0.46 - 0.62	6.8H	0.02B								
0.66 - 0.81	8.7H	0.04B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.08		1.99E	29C	0.04F	0.15B		1.70	3	16C	54	8	19
0.08 - 0.15		0.72E					1.50	4	20C	52	6	23
0.15 - 0.23		0.58E							16C	42	6	37
0.23 - 0.46		0.49E	73C	0.03F			1.40		8C	23	5	64
0.46 - 0.62		0.32E							7C	25	9	61
0.66 - 0.81	17.1C	0.14E	10C	0.041F				12	1C	42	13	27

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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
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
6Z	Organic carbon (%) - Not recorded
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
P3A_NR	Bulk density - Not recorded
P3B_VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using pressure plate