

**Project Name:** DD  
**Project Code:** DD      **Site ID:** B213      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	C.H. Thompson	<b>Locality:</b>	
<b>Date Desc.:</b>	04/11/53	<b>Elevation:</b>	648 metres
<b>Map Ref.:</b>	Sheet No. : 9242 1:100000	<b>Rainfall:</b>	914
<b>Northing/Long.:</b>	151.980555555556	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.5736111111111	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Tm	<b>Substrate Material:</b>	Auger boring, 2 m deep, No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Plateau
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	8.7 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Humose Mesotrophic Red Kandosol		<b>Principal Profile Form:</b>	Gn2.14
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red earth

All necessary analytical data are available.

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

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.18 m	Dark reddish brown (5YR3/3-Dry); ; Loam; Strong grade of structure, <2 mm, Granular; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.1 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A3	0.18 - 0.38 m	Yellowish red (5YR5/6-Moist); ; Loam; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B1	0.38 - 0.61 m	Red (2.5YR5/6-Dry); ; Clay loam; Weak grade of structure, Angular blocky; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.6 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B21	0.61 - 1.12 m	Red (2.5YR4/6-Dry); ; Light clay; Weak grade of structure, Angular blocky; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Field pH 6.2 (pH meter); Diffuse change to -
B22	1.12 - 1.52 m	Red (2.5YR4/6-Dry); ; Medium clay; Weak grade of structure, Angular blocky; Moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Field pH 6.5 (pH meter); Diffuse change to -
B3	1.52 - 2.03 m	Red (2.5YR5/8-Dry); ; Medium clay; Massive grade of structure; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 6.4 (pH meter);

**Morphological Notes**

**Observation Notes**

NOW CLEARED:PREVIOUSLY OPEN EUCALYPT FOREST

**Site Notes**

DARLING DOWNS

**Observation ID: 1**

**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 - 0.18	6.1H	0.03B							
0.18 - 0.38	6.5H	0.01B	7.8K	4.9	0.37	0	34.5D		
0.38 - 0.61	6.6H	0.01B							
0.61 - 1.12	6.2H	0.01B	0.67K	1.3	0.02	0.08	7.1D		
1.12 - 1.52	6.5H	0.01B							
1.52 - 2.03	6.4H	0.01B							

Depth  m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	%	mg/kg	%	%	%		GV	CS		Silt	Clay
0 - 0.18		12A	58C	0.316F	0.64B			26	13C	17	25	19
0.18 - 0.38		5A			0.24B			35	22C	20	32	17
0.38 - 0.61												
0.61 - 1.12		0.25A	23C	0.22F				26	29C	23	16	33
1.12 - 1.52												
1.52 - 2.03		0.16A						0.2	17C	26	17	43

[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
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