Project Name: DD
Project Code: DD **Site ID:** B254 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	
Date Desc.:	14/10/54	**Elevation:**	No Data
Map Ref.:	Sheet No. : 9142 1:100000	**Rainfall:**	686
Northing/Long.:	151.055555555556	**Runoff:**	Moderately rapid
Easting/Lat.:	-27.5861111111111	**Drainage:**	Moderately well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	JKk	**Substrate Material:**	Auger boring, 1.8 m deep,No Data

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Low hills
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Mesotrophic Yellow Kandosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn2.74
Great Soil Group: Yellow podzolic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species
Mid Strata - Shrub, , . *Species includes - Acacia species, Alphitonia excelsa
Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.09 m	Greyish brown (10YR5/2-Dry); ; Fine sand; Massive grade of structure; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 4.7 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.1 - 0.41 m	Very pale brown (10YR7/3-Dry); ; Fine sand; Massive grade of structure; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A22	0.41 - 0.71 m	Pale yellow (2.5Y8/4-Dry); ; Fine sand; Massive grade of structure; Common (1-5 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.8 (pH meter); Gradual change to -
B21	0.74 - 0.97 m	Yellow (10YR7/8-Dry); , 10R48, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Clayey sand; Massive grade of structure; Common (1-5 per 100mm2) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6.4 (pH meter); Diffuse change to -
B22	0.97 - 1.24 m	Yellow (10YR7/8-Dry); , 10R48, 2-10% , 5-15mm, Prominent; , 2-10% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Common (1-5 per 100mm2) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.3 (pH meter); Diffuse change to -
B23	1.24 - 1.52 m	White (2.5Y8/1-Dry); , 10YR68, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 6.5 (pH meter); Diffuse change to -
BC	1.52 - 1.78 m	Light grey (2.5Y7/1-Dry); , 10YR68, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Many (>5 per 100mm2) macropores, Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 5.6 (pH meter);

Morphological Notes

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Observation Notes

Site Notes

DARLING DOWNS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.09	4.7H	0.008B								
0.1 - 0.41	5.2H	0.005B								
0.41 - 0.71	5.8H	0.004B								
0.74 - 0.97	6.4H	0.004B								
0.97 - 1.24	6.3H	0.004B	0.12K	1.1	0.04	0.08	1.3D			
1.24 - 1.52	6.5H	0.008B								
1.52 - 1.78	5.6H	0.022B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.09		1.24A	3C	0.016F	0.07B		1.30	0	70C	23	2	4
0.1 - 0.41												
0.41 - 0.71		0.11A						1	60C	32	4	4
0.74 - 0.97							1.70					
0.97 - 1.24		0.05A						2	51C	25	3	22
1.24 - 1.52												
1.52 - 1.78		0.05A					1.90	5	44C	19	4	32

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m				g/g - m3/m3					mm/h	mm/h
0 - 0.09				0.1C				0.02C		
0.1 - 0.41										
0.41 - 0.71										
0.74 - 0.97				0.17C				0.1C		
0.97 - 1.24										
1.24 - 1.52										
1.52 - 1.78				0.22C				0.17C		

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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 recordede
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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m3/m3 - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m3/m3 - Volumetric using pressure plate