Project Name: DD
Project Code: DD **Site ID:** B251 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 12/10/54
Map Ref.: Sheet No. : 9142 1:100000
Northing/Long.: 151.125
Easting/Lat.: -27.5758333333333
Locality:
Elevation: 408 metres
Rainfall: 660
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: JKk
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Shale

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Magnesic Mottled-Hypernatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg2.82
Great Soil Group: Solodic soil

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

Vegetation:

Mid Strata - Shrub, , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Light brownish grey (10YR6/2-Dry); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; Field pH 5.7 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.08 - 0.28 m	Very pale brown (10YR7/4-Dry); ; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A22	0.28 - 0.36 m	White (10YR8/2-Dry); ; Loamy sand; Massive grade of structure; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromaganiferous, , Nodules; Field pH 6.6 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21	0.36 - 0.56 m	Light grey (2.5Y7/2-Moist); , 7.5YR68; Sandy clay loam; Massive grade of structure; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromaganiferous, , Nodules; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.56 - 0.97 m	Brownish yellow (10YR6/8-Moist); , 2.5Y71; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Ferromaganiferous, Medium (2 -6 mm), Nodules; Field pH 7.9 (pH meter); Diffuse change to -
B23	0.97 - 1.37 m	Brownish yellow (10YR6/6-Moist); , 10YR61; , 7.5YR46; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 7.6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	5.7H	0.007B	1.1K	0.47	0.18	0.08	5.6D			
0.08 - 0.28	5.5H	0.007B								
0.28 - 0.36	6.6H	0.008B								
0.36 - 0.56	8H	0.045B								
0.56 - 0.97	7.9H	0.095B	0.1K	6.4	0.23	3.2	1.6D			
0.97 - 1.37	7.6H	0.135B								

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 - 0.08		1.26A	6C	0.021F	0.07B			0	52C	38	6	3
0.08 - 0.28		0.36A						0.3	48C	42	6	4
0.28 - 0.36		0.11A			0.01B			0.5	44C	47	5	5
0.36 - 0.56	0C	0.13A			0.02B			0.8	35C	36	4	26
0.56 - 0.97	0C	0.06A						1	39C	24	2	35
0.97 - 1.37	0C	0.05A		0.011F				0.9	28C	26	2	45

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.08										
0.08 - 0.28										
0.28 - 0.36										
0.36 - 0.56										
0.56 - 0.97										
0.97 - 1.37										

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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
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