DD **Project Name:**

Project Code: B224 Observation ID: 1 DD Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: 01/11/53 Elevation: 434 metres Map Ref.: Sheet No.: 9242 1:100000 Rainfall: 610 Northing/Long.: 151.568611111111 Runoff: Slow

Imperfectly drained Easting/Lat.: -27.7361111111111 Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Substrate Material: Auger boring, 1 m deep, Unconsolidated Geol. Ref.: Jw

material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Rises Morph. Type: No Data Relief: 8 metres Elem. Type: Hillslope Slope Category: No Data Aspect: No Data Slope: 8.7 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Hypocalcic Mottled-Hypernatric Brown Sodosol **Principal Profile Form:** Db2.33 Solodized **ASC Confidence: Great Soil Group:** solonetz All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Sporobolus elongatus, Chloris species

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus populnea, Acacia cambagei

Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.3 (pH meter);

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Dry); ; Sandy Ioam; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, Shale, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (pH meter); Clear change to -
A2	0.1 - 0.15 m	Light brownish grey (10YR6/2-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, Shale, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (pH meter); Abrupt change to -
B21	0.15 - 0.23 m	Very dark greyish brown (10YR3/2-Moist); , 10YR54; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6.9 (pH meter); Gradual change to -
B22	0.25 - 0.43 m	Olive brown (2.5Y4/4-Moist); ; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.8 (pH meter); Gradual change to -
B23	0.51 - 0.71 m	Brown (7.5YR4/4-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.1 (pH meter); Diffuse change
В3	0.86 - 1.17 m	Light yellowish brown (2.5Y6/4-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm,

Morphological Notes

Observation Notes

10-15CM A2 HORIZON HAS SPORADIC BLEACH

Site Notes

DARLING DOWNS

Project Name: DD
Project Code: DD Site ID: B22
Agency Name: CSIRO Division of Soils (QLD) **B224** Observation ID: 1

Laboratory Test Results:

Edbordtory Tool Recounts.												
Depth	pН	1:5 EC		nangeable Mg	Cations K	Na	Exchangeabl Acidity	e CEC	E	ECEC	E	SP
m		dS/m		J		Cmol (-					9/	6
0 - 0.1	6.5H	0.02B	9.5K	2.5	0.6	0.35	5.9D					
0.1 - 0.15 0.15 - 0.23	6.5H 6.9H	0.02B 0.12B	6.7K	13.6	0.38	6.8	6.5D					
0.25 - 0.43 0.51 - 0.71	8.8H 9.1H	0.38B 0.49B	4.6K	14.6	0.36	9.4						
0.86 - 1.17	9.3H	0.36B										
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	Da	rticle	Sizo A	Analysis	
Берш	Cacos	C	Avaii. P	P	N	K	Density		CS	FS	Silt (
m	%	%	mg/kg	%	%	%	Mg/m3	_		%	0	Juy
0 - 0.1		2.22A	47C	0.05F	0.14	l8B		3	17C	51	8	17
0.1 - 0.15		0.25A						28	19C	54	11	12
0.15 - 0.23		0.83A						26	12C	27	5	52
0.25 - 0.43	1.11C	0.45A						7	10C	25	5	58
0.51 - 0.71												
0.86 - 1.17	0.49C	0.07A						8	5C	25	22	47
Depth	COLE									t	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/l	h	mm/h	

0 - 0.1 0.1 - 0.15 0.15 - 0.23 0.25 - 0.43 0.51 - 0.71 0.86 - 1.17

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Laboratory Analyses Completed for this profile

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Hydrogen Cation - meq per 100g of soil - Not recorded 15 NR CA

15_NR_H

15_NR_K Exch. basic cations (K++) - med per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15_NR_NA

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2 LOI Loss on Ignition (%) Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

Water soluble Chloride - Cl(%) - Not recordede Organic carbon - Walkley and Black 5_NR

6A1 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 P10_NR_FS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_Z Silt (%) - Not recorded