DD **Project Name:**

Project Code: Site ID: **B227** Observation ID: 1 DD

Agency Name: **CSIRO** Division of Soils (QLD)

Site Information

Desc. By: Date Desc.: G.G. Beckmann Locality:

Elevation: 11/05/54 594 metres

Map Ref.: Sheet No.: 9242 1:100000 Rainfall: 711

Northing/Long.: Moderately rapid 151.991111111111 Runoff: Drainage: Easting/Lat.: -27.7311111111111 No Data

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 2 m deep, Unconsolidated Tm

material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: No Data Relief: No Data Elem. Type: No Data Slope Category: No Data Aspect: No Data Slope: 7 %

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Endocalcareous Epipedal Black Vertosol **Principal Profile Form:** Ug5.15 **Great Soil Group:** Black earth **ASC Confidence:**

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, Sparse. *Species includes - Eucalyptus populnea

the bound (40)/D0/0 Do. A. Harris also Made at a small of almost and

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.05 m	Very dark greyish brown (10YR3/2-Dry); ; Heavy clay; Moderate grade of structure, Granular; Dry; Weak consistence; Field pH 6.6 (pH meter); Clear change to -
B2	0.05 - 0.41 m	Dark brown (7.5YR3/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Gradual change to -
B2	0.41 - 0.58 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Weak grade of structure, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Gradual change to -
B2	0.58 - 0.79 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Weak grade of structure, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
B2	0.79 - 1.37 m	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Diffuse change to -
B2	1.37 - 1.98 m	Dark yellowish brown (10YR4/4-Moist); ; Heavy clay; Weak grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Very few (0 - 2%), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

0-5CM GRANULAR STRUCTURE GRADING TO BLOCKY UNITS

Site Notes

DARLING DOWNS

Project Name: DD
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Laboratory Test Results:

Depth	рН	1:5 EC		nangeable	Cations K	Na Ex	changeable	CEC	ı	ECEC	ES	Р
m		dS/m	Ja r	Иg	N.	Cmol (+)/	Acidity kg				%	
0 - 0.05 0.05 - 0.41 0.41 - 0.58 0.58 - 0.79	6.6H 6.9H 7.8H 8.3H	0.053B 0.163B 0.166B 0.164B	19.1K	32.2	0.43	1.1	11.8D					
0.79 - 1.37 1.37 - 1.98	8.5H 8.6H	0.179B 0.241B	15.5K	36.6	0.22	4.1						
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS		alysis Silt Cl	ay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05 0.05 - 0.41 0.41 - 0.58 0.58 - 0.79		5.08A 1.68A	249C	0.309F 0.168F	0.14	4B	1.20 1.10	0	2C	13	16	63
0.79 - 1.37 1.37 - 1.98	0.54C	0.16A		0.272F	;			2	1C	18	24	58
Depth	COLE					ater Conte		_	K sa	t K	unsat	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar	5 Bar 15 I	3ar	mm/	h r	nm/h	
0 - 0.05 0.05 - 0.41 0.41 - 0.58 0.58 - 0.79 0.79 - 1.37 1.37 - 1.98				0.51C 0.48C			-	13C 15C				

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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_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. basic cations (Na++) - meq per 100g of soil - Not recorded

19B_NR Calcium Carbonate (CaCO3) - 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 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
P10_NR_FS
P10_NR_FS
P10_NR_Z
P3A_NR
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded

P3B_VL_01
P3B_VL_15
0.1 BAR Moisture m3/m3 - Volumetric using suction plate
15 BAR Moisture m3/m3 - Volumetric using pressure plate