DD **Project Name:**

B156 Observation ID: 1 **Project Code:** DD Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Site Information

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

Elevation: 27/11/51 532 metres

Map Ref.: Sheet No.: 9242 1:100000 Rainfall: 0

Northing/Long.: Runoff: 151.8525 Moderately rapid Easting/Lat.: -27.552777777778 Drainage: Moderately well drained

Geology

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

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

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-No Data Pattern Type:

Morph. Type: No Data Relief: 30 metres Slope Category: Elem. Type: Pediment No Data Slope: 4 % Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Epicalcareous Self-Mulching Black Vertosol **Principal Profile Form:** Ug5.16 **ASC Confidence: Great Soil Group:** Black earth

All necessary analytical data are available. Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, . *Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus orgadophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ар	0 - 0.13 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Clear change to -
B2	0.13 - 0.41 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Medium, (5 - 10) mm crack; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -
B2	0.41 - 0.69 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
B2	0.69 - 0.91 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Gradual change to -
B2	0.97 - 1.24 m	Very dark greyish brown (10YR3/2-Moist); , 10YR53; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
В3	1.24 - 1.88 m	Brown (10YR5/3-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Weak consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH

Morphological Notes

Observation Notes

0-13CM GRANULAR GRADING TO STRONG ANGULAR BLOCKY STRUCTURE

Site Notes

DARLING DOWNS

Project Name: Project Code: Agency Name: DD

DD Site ID: B15
CSIRO Division of Soils (QLD) B156 Observation ID: 1

Laboratory Test Results:

Ediboratory Test Nesauts.													
Depth	pН	1:5 EC		:hangeable Mg	Cations K	Na	Exchangeabl	e CEC		ECEC	ı	ESP	
m		dS/m	Ja	wg	K	Cmol (Acidity +)/kg					%	
0 - 0.13	7.5H		45.4K	38.4	1.5	2.3	6.7D			94.3E	Ē		
0.13 - 0.41	8.4H	0.057B											
0.41 - 0.69	8.8H		38.3K	41.2	0.48	7.8				87.8E			
0.69 - 0.91	8.9H	0.451B											
0.97 - 1.24	8.8H	0.328B	30.7K	45	0.53	10.6				86.8	•		
1.24 - 1.88	8.8H	0.577B											
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	P	article	Size	Analysis	•	
		C	P	Р	N	K	Density	/ GV	CS	FS	Silt		
m	%	%	mg/kg	%	%	%				%			
0 - 0.13	0.050	2.45E	86C	0.103F	0.1	7R			<1C	9	12	75	
0.13 - 0.41	0.000	2.43L	000	0.1001	0.1	70			\10	3	12	75	
0.41 - 0.69	0.77C								<1C	8	12	79	
0.69 - 0.91	0.110	•							\10	U	12	7.5	
0.09 - 0.91	4.21C							2	<1C	7	10	77	
1.24 - 1.88	4.210	•							\10	'	10	' '	
1.24 1.00													
Danth	COLE		Gravimetric/Volumetric Water Contents						Ksat Kur		K unsa		
Depth		Sat.	0.05 Bar	vimetric/vo 0.1 Bar	umetric v 0.5 Bar	vater Co 1 Bar		15 Bar	K S	at	r unsa	C .	
m		Jai.	u.us bar		u.o.bar g-m3/m∶		3 Dai	IJ Dai	mm	/h	mm/h		
•••				9/3	,	•				,			

0 - 0.13 0.13 - 0.41 0.41 - 0.69 0.69 - 0.91 0.97 - 1.24 1.24 - 1.88

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Laboratory Analyses Completed for this profile

15 NR Sum of Ex. cations + Ex. acidity - Not recorded

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_H Hydrogen Cation - meg 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 Exch. basic cations (Na++) - med per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

6Z Organic carbon (%) - Not recorded 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