DD **Project Name:**

Project Code: Site ID: **B205** Observation ID: 1 DD

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

Site Information

C.H. Thompson Locality:

Desc. By: Date Desc.: Elevation: 01/10/53 442 metres 610

Map Ref.: Sheet No.: 9242 1:100000 Rainfall: Northing/Long.: 151.75555555556 Runoff: Moderately rapid Easting/Lat.: -27.748055555556 Drainage: Moderately well drained

Geology

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

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

material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Pediplain Morph. Type: Elem. Type: No Data Relief: No Data Pediment Slope Category: No Data Aspect: No Data Slope: 3.5 %

Surface Soil Condition (dry): Self-mulching, Loose

Erosion:

Soil Classification

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

All necessary analytical data are available.

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

Vegetation:

Tall Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, ,

Profile Morphology

-			
P	AΒ	0 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Moderately moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 7.4 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
E	32	0.08 - 0.41 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 7.9 (pH meter); Common, very fine (0-1mm) roots; Gradual change
E	32	0.41 - 0.69 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
E	32	0.69 - 0.86 m	Brown (7.5YR4/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Gradual change to -
E	32	0.91 - 1.47 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Diffuse change to -
E	32	2.74 - 3.15 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

0-8CM GRANULAR STRUCTURE GRADING INTO BLOCKY UNITS

Site Notes

DARLING DOWNS

Project Name: Project Code: Agency Name: DD

DD Site ID: B20 CSIRO Division of Soils (QLD) B205 Observation ID: 1

Laboratory Test Results:

Laboratory rest Results.												
pН	1:5 EC			Cations K	E Na		CEC	E	CEC		ESP	
	dS/m				Cmol (+)/						%	
7.4H	0.05B	32.7K	29.2	1.9	1.2	7.4D						
8.5H	0.13B	27.9K	31.7	0.67	5.5							
8.6H 8.7H		18.6K	27	0.74	4.8							
8.8H	0.34B											
CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa		Size /	Analysi	s	
0/_	C %	P ma/ka	P %	N %	K %	Density	GV	CS	_	Silt	Clay	
70	70	mg/kg	70	70	70	Wg/mo			70			
	2.79A	788C	0.216F	0.19	9B	1.10	6	0.2C	8	17	68	
	-				4B	1.20	0.2	0.5C	9		-	
	-	1105C	0.212F			1.20	-		-	_		
							-		_			
			0.4505					_	-			
5.060	0.04A		0.156F				5	0.20	10	3	81	
COLE	Gravimetric/Volumetric Water Contents							K sat		K unsa	t	
	Sat.	0.05 Bar				5 Bar 15 E	3ar	mm/h	ı	mm/h		
						0.4	1C					
	7.4H 7.9H 8.5H 8.6H 8.7H 8.8H CaCO3 % 0.05C 0.14C 2.05C 8.48C 5.06C	pH 1:5 EC dS/m 7.4H 0.05B 7.9H 0.05B 8.5H 0.13B 8.6H 0.29B 8.7H 0.33B 8.8H 0.34B CaCO3 Organic C % 2.79A 0.05C 2.32A 0.14C 1.32A 2.05C 0.59A 8.48C 0.18A 5.06C 0.04A	PH 1:5 EC Ca No C	pH 1:5 EC dS/m Ca Exchangeable Mg dS/m Ca Mg 7.4H 0.05B 32.7K 29.2 7.9H 0.05B 27.9K 31.7 8.5H 0.13B 27.9K 31.7 8.6H 0.29B 18.6K 27 8.7H 0.33B 18.6K 27 6aCO3 Organic C P P P mg/kg N 6aCO3 Organic C P P P Mg/kg N 788C 0.216F 0.05C 2.32A 1105C 0.212F 2.05C 2.59A 1105C 0.212F 8.48C 0.18A 5.06C 0.04A 0.156F COLE Gravimetric/Vo Sat. 0.05 Bar 0.1 Bar	pH 1:5 EC Exchangeable Cations Mg Cations Mg K dS/m Exchangeable Cations Mg Cations Mg 7.4H 0.05B 32.7K 29.2 1.9 7.9H 0.05B 32.7K 29.2 1.9 7.9H 0.05B 27.9K 31.7 0.67 8.6H 0.29B 8.6K 27 0.74 8.8H 0.33B 18.6K 27 0.74 CaCO3 Organic C P P P N mg/kg N % 0.05C 2.32A 788C 0.216F 0.19 0.05C 2.32A 1105C 0.212F 0.14 2.05C 0.59A 8.48C 0.18A 0.156F COLE Gravimetric/Volumetric W Sat. 0.05 Bar 0.1 Bar 0.5 Bar	PH 1:5 EC Exchangeable Cations (A) Exchangeable Cations (A) Na Na Cmol (+) 7.4H 0.05B 32.7K 29.2 1.9 1.2 7.9H 0.05B 32.7K 29.2 1.9 1.2 7.9H 0.05B 32.7K 31.7 0.67 5.5 8.6H 0.29B 31.7 0.67 5.5 8.6H 0.29B 18.6K 27 0.74 4.8 8.8H 0.34B Avail. Total Total Total Total Total Total N K % % % % % % % % % CaCO3 Organic Avail. Total Total Total Total N K % 0.14B	PH	PH 1:5 EC Exchangeable Cations Na Acidity Exchangeable CEC dS/m V Na Acidity Cmol (+)/kg CEC 7.4H 0.05B 32.7K 29.2 1.9 1.2 7.4D 7.9H 0.05B 27.9K 31.7 0.67 5.5 8.5 8.5H 0.13B 27.9K 31.7 0.67 5.5 8.6 8.7H 0.33B 18.6K 27 0.74 4.8 8.8H 0.34B Pa CaCO3 Organic CaCO3 Avail. Total Total Total Total Total Total Mg/m3 Bulk Density GV Pa % % % Mg/m3 Mg/m3 Mg/m3 The color of the color o	PH	PH	PH	

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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 Exch. basic cations (Mg++) - meq 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

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_15 15 BAR Moisture m3/m3 - Volumetric using pressure plate