Project Name: BL

Project Code: Site ID: **B298** Observation ID: 1 BL

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

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: Elevation: 22/10/56 No Data Map Ref.: Sheet No.: 8850 1:100000 Rainfall: 635

Northing/Long.: Moderately rapid 148.81944 Runoff: Easting/Lat.: Drainage: Imperfectly drained -23.575

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 1.9 m deep, Porous, Mudstone Cz

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Rises Morph. Type: Elem. Type: Upper-slope Relief: No Data **Slope Category:** No Data Hillslope No Data 0 % Aspect: Slope:

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Epicalcareous-Endohypersodic Self-Mulching Black Vertosol **Principal Profile Form:** Ug5.15

ASC Confidence: Great Soil Group: Brown clay

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals Low Strata - Tussock grass, , . *Species includes - Chloris species **Vegetation:**

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia harpophylla, Atalaya hemiglauca,

Very dark grevich brown (10VP3/2-Moiet): Heavy clay: Strong grade of structure, 2-5 mm

Eremophila mitchellii

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Quartz

Profile Morphology 0 - 0.1 m

AB	0 - 0.1 m	Very dark greyish brown (10 k3/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Gradual change
B2	0.3 - 0.61 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Gradual change to -
B2	0.76 - 1.07 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.4 (pH meter); Gradual change to -
B2	1.07 - 1.37 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Field pH 5.5 (pH meter); Diffuse change to -
B2	1.37 - 1.57 m	Yellowish red (5YR4/6-Moist); , 7.5YR56; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Field pH 5 (pH meter); Diffuse change to -
В3	1.68 - 1.9 m	Strong brown (7.5YR5/6-Moist); ; Medium clay; Weak grade of structure, Lenticular; Moist; Weak consistence; 0-2%, Mudstone, coarse fragments; Field pH 4.8 (pH meter); Diffuse change
С	1.98 - 2.08 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Mudstone, coarse fragments; Field pH 4.4 (pH meter);

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE: ALKALINE OVER ACID CLAYS

Site Notes

BLACKWATER

Project Name: BL
Project Code: BL Site ID: B29
Agency Name: CSIRO Division of Soils (QLD) B298 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeab	le CEC	E	ECEC	E	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)	Acidity)/kg				,	%
0 - 0.1 0.3 - 0.61	8.7H 8.9H	0.05B 0.42B		9.4	0.73	0.71						
0.76 - 1.07 1.07 - 1.37	8.4H 5.5H	0.7B 0.6B	16.1K	17.6	0.28	8.2						
1.37 - 1.57 1.68 - 1.9	5H 4.8H	0.58B 0.55B					7D					
1.98 - 2.08	4.4H	0.54B										
Depth	CaCO3	Organic	Avail.	Total	Total	Total				Size A		
m	%	C %	P mg/kg	P %	N %	K %	Densit Mg/m3		cs	FS %	Silt	Clay
0 - 0.1	2.22C		16C	0.069F			1.30	0.3	5C	28	14	47
0.3 - 0.61 0.76 - 1.07	4.37C 0.67C				0.0	3B	1.30 1.30	1	3C 3C	23 20	19 17	47 59
1.07 - 1.37 1.37 - 1.57					0.04	4B	1.30		1C	22	25	55
1.68 - 1.9 1.98 - 2.08				0.066F	:				1C	32	24	44
Depth	COLE	Sat.	Grav 0.05 Bar	vimetric/Vo 0.1 Bar	lumetric W 0.5 Bar	later Conf 1 Bar	tents 5 Bar	15 Bar	K sa	t ł	K unsat	
m		Jai.	0.03 Bai		g - m3/m3		J Bai	13 Bai	mm/l	h	mm/h	
0 - 0.1				0.44C				0.25C				
0.3 - 0.61 0.76 - 1.07				0.45C 0.49C				0.27C 0.27C				
1.07 - 1.37				0.5C				0.26C				
1.37 - 1.57 1.68 - 1.9												
1.98 - 2.08												

BL**Project Name:**

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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 (Na++) - meq per 100g of soil - Not recorded 15 NR MG 15_NR_NA

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

Electrical conductivity or soluble salts - Not recorded 3_NR

pH of soil - Not recorded 4_NR

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

Organic carbon - Walkley and Black Total nitrogen (%) - Not recorded 6A1 7_NR Available P (mg/kg) - Not recorded 9_NR 9A_NR Total element - P(%) - Not recorded

Gravel (%)

P10_GRAV 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 P3A_NR Bulk density - Not recorded

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