

Project Name: BL
Project Code: BL **Site ID:** B299 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	24/10/56	Elevation:	152 metres
Map Ref.:	Sheet No. : 8949 1:100000	Rainfall:	711
Northing/Long.:	150.447222222222	Runoff:	Moderately rapid
Easting/Lat.:	-24.4180555555556	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Auger boring, 2 m deep,Porous, Clay

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol	Principal Profile Form:	Ug5.24

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Brown clay

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Tree, , Isolated plants. *Species includes - Acacia harpophylla

Surface Coarse Fragments:

Profile Morphology

AB	0 - 0.08 m	Very dark greyish brown (10YR3/2-Dry); ; Light medium 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, Fine (0 - 2 mm), Nodules; Field pH 8.4 (pH meter); Clear
B21	0.08 - 0.3 m	Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Gradual change to -
B22	0.3 - 0.61 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.2 (pH meter); Diffuse change to -
B23	0.91 - 1.07 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 5.1 (pH meter); Diffuse change to -
B24	1.29 - 1.45 m	Brown (10YR4/3-Moist); , 10YR52, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 4.8 (pH meter); Diffuse change to -
B3	1.83 - 1.98 m	Light brownish grey (2.5Y6/2-Moist); , 10R48, 10-20% , 15-30mm, Prominent; , 10-20% , 15-30mm, Prominent; Heavy clay; Weak grade of structure, Angular blocky; Moderately moist; Very firm consistence; Field pH 4.6 (pH meter);

Morphological Notes

Observation Notes

BANK PROFILE:0-8CM GRANULAR GRADING TO BLOCKY STRUCTURE:ALKALINE OVER ACID CLAYS

Site Notes

BILOELA

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Ca	(+)/kg			%
0 - 0.08	8.4H	0.06B	30.6K	6.5	1.8	0.07				
0.08 - 0.3	8.8H	0.13B								
0.3 - 0.61	8.2H	0.45B	9.1K	17.3	0.29	2.9				
0.91 - 1.07	5.1H	0.49B								
1.29 - 1.45	4.8H	0.56B								
1.83 - 1.98	4.6H	0.69B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.08	1.58C	4.1A	101C	0.115F	0.29B			0.7	11C	29	16	35
0.08 - 0.3	0.77C							0	10C	26	15	42
0.3 - 0.61	0.1C							0	10C	25	17	45
0.91 - 1.07								0	8C	26	14	49
1.29 - 1.45								0	9C	25	20	48
1.83 - 1.98				0.029F				0	5C	21	19	55

[illegible]

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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_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
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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 recorded
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	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded