

Project Name: BL
Project Code: BL **Site ID:** B368 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	
Date Desc.:	14/03/59	Elevation:	122 metres
Map Ref.:	Sheet No. : 8949 1:100000	Rainfall:	686
Northing/Long.:	150.1	Runoff:	Moderately rapid
Easting/Lat.:	-24.5	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Puy	Substrate Material:	Soil pit, 0.56 m deep,Shale

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	9 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Epipedal Black Vertosol		Principal Profile Form:	Ug5.12
ASC Confidence:		Great Soil Group:	Brown clay
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Acacia harpophylla, Bassia species, Eremophila mitchellii

Surface Coarse Fragments: 0-2%, , , Mudstone

Profile Morphology

AB	0 - 0.15 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Firm consistence; Field pH 7.1 (pH meter); Gradual change to -
B2	0.15 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 7.9 (pH meter); Gradual change to -
B2	0.3 - 0.46 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, Angular blocky; Moist; Firm consistence; 2-10%, Shale, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Gradual change to -
C	0.56 - 0.71 m	; Field pH 8.9 (pH meter);

Morphological Notes

C Light greyish brown weathered sandy shale:

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE:

Site Notes

BANANA

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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				Cmol (+)/kg				%
0 - 0.15	7.1H	0.01C	42.8K	10.8	0.53	1.46		63.3J		2.31
0.15 - 0.3	7.9H	0.02C								
0.3 - 0.46	8.4H	0.04C	38.4K	12.7	0.42	1.86				
0.56 - 0.71	8.9H	0.05C								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15		1.18E	5C	0.022F	0.1B				2C	12	18	66
0.15 - 0.3				0.023F								
0.3 - 0.46	0.66C	0.84E						3	2C	10	17	67
0.56 - 0.71				0.134F								

[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_CEC	CEC - 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 (CaCO ₃) - Not recorded
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
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	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded