

Project Name: RR
Project Code: RR **Site ID:** B550 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	01/07/66	Elevation:	183 metres
Map Ref.:	Sheet No. : 9442 1:100000	Rainfall:	889
Northing/Long.:	152.564444444444	Runoff:	Rapid
Easting/Lat.:	-27.595	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	JW	Substrate Material:	Auger boring, 1.7 m deep, Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Upper-slope	Relief:	61 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	14 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Self-Mulching Black Vertosol		Principal Profile Form:	Gn3.93
ASC Confidence:		Great Soil Group:	Prairie soil
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Very dark brown (7.5YR2/2-Dry); ; Clay loam (Heavy); Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; Field pH 6.6 (pH meter); Abundant, coarse (>5mm) roots; Abrupt change to -
A12	0.05 - 0.1 m	Very dark brown (10YR2/2-Dry); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Weak consistence; Field pH 7.2 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
B1	0.1 - 0.16 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (pH meter); CommonClear change to -
B21	0.16 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.6 (pH meter); FewClear change to -
B21	0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (pH meter); FewGradual change to -
B22	0.3 - 0.46 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.6 (pH meter); FewGradual change to -
B22	0.46 - 0.61 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.6 (pH meter); Gradual change to -
B22	0.61 - 0.91 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; , Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.7 (pH meter); Diffuse change to -
B22	0.91 - 1.04 m	Dark greyish brown (2.5Y4/3-Moist); ; 2.5Y53, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Heavy clay; , Angular blocky; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (pH meter); Diffuse change to -

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B23	1.04 - 1.22 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; , Angular blocky; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.1 (pH meter); Diffuse change to -
B23	1.22 - 1.52 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y56, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; , Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, , Soft segregations; Field pH 8.4 (pH meter); Diffuse change to -
B23	1.52 - 1.73 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y56, 10-20% , 0-5mm, Faint; , 10-20% , 0-5mm, Faint; Heavy clay; , Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, , Soft segregations; Field pH 8.5 (pH meter); Diffuse change to -
C	1.73 - 1.83 m	Grey (2.5Y6/1-Moist); , 10YR54, 10-20% , 0-5mm, Faint; , 2.5Y56, 10-20% , 0-5mm, Faint; Light clay; Massive grade of structure; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

TALLAGALLA

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1.73 - 1.83

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
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
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
17A_NR	Total element - K(%) - 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
P3A_NR	Bulk density - Not recorded