Project Name: RR

B550 Observation ID: 1 **Project Code:** RR Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: C.H. Thompson Locality: Date Desc.: Elevation: 01/07/66 Sheet No.: 9442 1:100000 Map Ref.: Rainfall:

152.56444444444 Northing/Long.: Runoff: Rapid -27.595 Well drained Easting/Lat.: Drainage:

Geology

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

Substrate Material: Geol. Ref.: JW Auger boring, 1.7 m deep, Sandstone

183 metres

889

Land Form

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

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** 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

0 - 0.05 m Very dark brown (7.5YR2/2-Dry); ; Clay loam (Heavy); Strong grade of structure, <2 mm, Granular; A11 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 -Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 R1 0.1 - 0.16 m 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 -Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-B21 0.2 - 0.3 m 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** Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, 0.3 - 0.46 m 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 -

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 B22 0.61 - 0.91 m

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 -

Project Code: RR Site ID: B550 Observation ID: 1 **Agency Name: CSIRO** Division of Soils (QLD) 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 B23 1.04 - 1.22 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 B23 1.22 - 1.52 m segregations; Field pH 8.4 (pH meter); Diffuse change to -B23 1.52 - 1.73 m

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

Project Name:

RR

Project Name: RR
Project Code: RR Site ID: B5:
Agency Name: CSIRO Division of Soils (QLD) Site ID: B550 Observation ID: 1

Ca Mg K Na Acidity m dS/m Cmol (+)/kg	%	
· · · · · · · · · · · · · · · · · · ·		
0 - 0.05 6.6H 0.081B 46K 7.6 2 0.23 11D		
0.05 - 0.1 7.2H 0.07B 42.5K 8.7 1.6 0.37 4.2D		
0.1 - 0.16 7H 0.049B 32.8K 10.3 1.4 0.46 6.5D		
0.16 - 0.2 6.6H 0.057B 28K 12.6 1.2 0.82 7.3D		
0.2 - 0.3 6.5H 0.07B		
0.3 - 0.46		
0.46 - 0.61		
0.61 - 0.91 6.7H 0.37B 19.9K 17.2 0.34 3.7 3.4D		
0.91 - 1.04 7H 0.36B 1.04 - 1.22 8.1H 0.39B 16.7K 15.7 0.38 3.4 2D		
1.04 - 1.22		
1.52 - 1.73		
1.73 - 1.83		
1.70 1.00 0.011 0.025		
	nalysis	
C P P N K Density GV CS FS m % % mg/kg % % Mg/m3 %	Silt Clay	
111 /0 /0 111g/kg /0 /0 /0 111g/1110 /0		
0 - 0.05 8.1A 100C 0.096F 0.88B 1.22B 0.60 3C 19	12 45	
72C		
0.05 - 0.1 4.6A 55C 0.086F 0.597B 1.26B 0.80 3C 21	13 51	
30C		
0.1 - 0.16	12 56	
0.16 - 0.2 1.4A 0.037F 0.191B 1.2B 1.20 3C 21	12 63	
0.2 - 0.3	12 61	
0.3 - 0.46	12 61	
0.46 - 0.61		
0.61 - 0.91	16 55	
0.91 - 1.04	10 00	
1.04 - 1.22	13 59	
1.22 - 1.52		
1.52 - 1.73	14 48	
1.73 - 1.83 8.3C 0.056F 0.022B 1.37B 10 8C 30	14 38	
Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat		
Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	_	
m g/g - m3/m3 mm/h	mm/h	

0 - 0.05 0.05 - 0.1 0.05 - 0.1 0.1 - 0.16 0.16 - 0.2 0.2 - 0.3 0.3 - 0.46 0.46 - 0.61 0.61 - 0.91

0.91 - 1.04 1.04 - 1.22 1.22 - 1.52 1.52 - 1.73

Project Name: Project Code: Agency Name: RR

RR Site ID: B55 CSIRO Division of Soils (QLD) B550 Observation ID: 1

1.73 - 1.83

Project Name: RR

Project Code: RR Site ID: B550 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

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
15_NR_MG
15_NR_NA
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

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 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_CS
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
P10_NR_Z
P3A_NR
Bulk density - Not recorded