Project Name: RR
Project Code: RR **Site ID:** B570 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	**Locality:**	
Date Desc.:	04/11/66	**Elevation:**	37 metres
Map Ref.:	Sheet No. : 9444 1:100000	**Rainfall:**	1659
Northing/Long.:	152.95	**Runoff:**	Rapid
Easting/Lat.:	-26.6833333333333	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Rjw	**Substrate Material:**	Undisturbed soil core, 1.5 m deep,Sandstone

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Low hills
Morph. Type:	Crest	**Relief:**	15 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn2.14
Great Soil Group: Red earth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Sandy loam; Strong grade of structure, 2-5 mm, Granular; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6 (pH meter);
A12	0.1 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.8 (pH meter); Gradual change to -
B1	0.15 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter);
B1	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter); Gradual change to -
B2	0.3 - 0.46 m	Red (2.5YR4/6-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 0-2%, Sandstone, coarse fragments; Field pH 5.9 (pH meter);
B2	0.46 - 0.6 m	Red (2.5YR4/6-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 2-10%, Sandstone, coarse fragments; Field pH 5.9 (pH meter);
B2	0.6 - 0.7 m	Red (2.5YR4/6-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 2-10%, Sandstone, coarse fragments; Field pH 5.9 (pH meter); Diffuse change to -
B3	0.7 - 0.9 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, cobbly, 60-200mm, Sandstone, coarse fragments; Field pH 5.8 (pH meter);
B3	0.9 - 1.2 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, cobbly, 60-200mm, Sandstone, coarse fragments; Field pH 5.9 (pH meter);
B3	1.2 - 1.48 m	Red (2.5YR4/6-Moist); ; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, cobbly, 60-200mm, Sandstone, coarse fragments; Field pH 5.8 (pH meter); Clear change to -
C	1.48 - 1.6 m	; Field pH 5.9 (pH meter);
	1.6 - 1.74 m	; Field pH 5.7 (pH meter);

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RB(3yr4/6) gravelly SCL; mixed conglomerate band.

Observation Notes

1.48-1.60M B, DB, W, BL; SCL(SANDSTONE); HORIZONTALLY BANDED:

Site Notes

PALMWOODS

Morphological Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6A	0.041A	3B	1.9	0.15	0.17	4.1D			
0.1 - 0.15	5.8A	0.024A	1.8B	1.2	0.1	0.13	4.7D			
0.15 - 0.2	5.9A	0.019A	1.3B	1	0.04	0.04	2.6D			
0.2 - 0.3	5.9A	0.022A	1.2B	0.81	0.05	0.04	1.9D			
0.3 - 0.46	5.9A	0.014A	0.73B	1.2	0.05	0.06	0.46D			
0.46 - 0.6	5.9A	0.016A								
0.6 - 0.7	5.9A	0.014A	0.7B	1	0.04	0.07	0.49D			
0.7 - 0.9	5.8A	0.011A	0.71B	1.2	0.04	0.07	1.5D			
0.9 - 1.2	5.9A	0.014A								
1.2 - 1.48	5.8A	0.011A	0.67B	1.3	0.11	0.17	1.4D			
1.48 - 1.6	5.9A	0.011A	0.26B	0.87	0.05	0.13	1.1D			
1.6 - 1.74	5.7A	0.014A	0.3B	1.4	0.06	0.13	0D			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.14A	3.7A 7.4B	0.04A	0.14B	0.06A	1.32	2	50C	22	6	14
0.1 - 0.15		2.44A	3.3A 4.9B	0.027A	0.11B	0.05A		1	49C	22	5	18
0.15 - 0.2		1.57A	2.9A 3.3B	0.026A	0.075B	0.05A	1.51	1	46C	23	6	21
0.2 - 0.3		0.87A		0.023A	0.041B	0.06A		2	43C	23	5	27
0.3 - 0.46				0.025A	0.025B	0.08A	1.40	2	40C	23	5	31
0.46 - 0.6							1.56	9				
0.6 - 0.7				0.021A	0.018B	0.09A		6	39C	21	6	34
0.7 - 0.9				0.022A	0.018B	0.09A		28	41C	21	8	31
0.9 - 1.2												
1.2 - 1.48				0.031A	0.012B	0.18A		13	42C	23	10	25
1.48 - 1.6				0.033A	0.005B	0.15A		10	53C	23	10	15
1.6 - 1.74				0.025A	0.004B	0.22A		36	38C	21	14	27

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m				g/g - m3/m3					mm/h	mm/h
0 - 0.1				0.28F				0.16H		
0.1 - 0.15										
0.15 - 0.2				0.27F				0.17H		
0.2 - 0.3										
0.3 - 0.46				0.26F				0.15H		
0.46 - 0.6				0.26F				0.17H		
0.6 - 0.7										
0.7 - 0.9										
0.9 - 1.2										
1.2 - 1.48										
1.48 - 1.6										
1.6 - 1.74										

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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
P3A1	Bulk density - g/cm3
P3B3VLe004	0.04 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe01	0.1 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe03	0.3 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on suction plate
P3B3VLe06	0.6 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe15	15 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe2	2 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate
P3B3VLe7	7 BAR Moisture m3/m3 - Volumetric using undisturbed 60mm diameter and 34mm height core on pressure plate