

Project Name: RR
Project Code: RR **Site ID:** B556 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	23/09/66	Elevation:	305 metres
Map Ref.:	Sheet No. : 9044 1:100000	Rainfall:	703
Northing/Long.:	150.6	Runoff:	Very slow
Easting/Lat.:	-26.8	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qa	Substrate Material:	Undisturbed soil core, 1 m deep, Unconsolidated material

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	15 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Episodic-Epiacidic Epipedal Grey Vertosol		Principal Profile Form:	Ug5.24
ASC Confidence:		Great Soil Group:	Grey clay
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Tall Strata - Tree, , Isolated plants. *Species includes - Acacia harpophylla, Brachychiton rupestre, Geijera parviflora

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Field pH 6.9 (pH meter); Abrupt change to -
B2	0.05 - 0.1 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7 (pH meter);
B2	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Slightly plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.2 (pH meter);
B2	0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Slightly plastic; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.7 (pH meter);
B2	0.3 - 0.36 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; 5-10 mm, Angular blocky; Moist; Slightly plastic; Field pH 5 (pH meter); Gradual change to -
B2	0.36 - 0.6 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; 50-100 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Moderately plastic; Field pH 4.6 (pH meter);
B2	0.6 - 0.9 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; 50-100 mm, Prismatic; 10-20 mm, Angular blocky; Moist; Moderately plastic; Field pH 4.4 (pH meter);

Morphological Notes

Observation Notes

SLICK PROFILE. 0-5CM PLATY GRADING TO BLOCKY STRUCTURE.

Site Notes

CHINCHILLA

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na	Cmol (+)/kg			%
0 - 0.05	6.9H	0.05B	9.8K	7.5	0.86	2.5	3.6D			
0.05 - 0.1	7H	0.08B	9.9K	8.3	0.77	3.4	2.7D			
0.1 - 0.2	7.2H	0.16B	8.2K	8.3	0.66	3.8	4.2D			
0.2 - 0.3	6.7H	0.23B								
0.3 - 0.36	5H	0.38B	5K	7.6	0.49	4.2	8.2D			
0.36 - 0.6	4.6H	0.51B								
0.6 - 0.9	4.4H	0.61B	4.6K	7.9	0.53	6.9	4.9D			

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 - 0.05		1.83E	8C	0.015F	0.12B			7	3C	33	14	46
0.05 - 0.1		1.31E	10C	0.012F	0.088B			1	3C	30	14	49
			8B									
0.1 - 0.2		0.97E		0.015F				1	3C	28	16	50
0.2 - 0.3												
0.3 - 0.36		0.64E		0.013F				0	3C	27	15	51
0.36 - 0.6												
0.6 - 0.9		0.45E		0.008F				0	3C	25	16	52

[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_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
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
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
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