

Project Name: WQR
Project Code: WQR **Site ID:** B123 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	Cooma road 33 miles from Kyabra
Date Desc.:	21/06/51	Elevation:	190 metres
Map Ref.:	Sheet No. : 7551 1:100000	Rainfall:	310
Northing/Long.:	143.1	Runoff:	Slow
Easting/Lat.:	-26.65	Drainage:	Imperfectly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	KW	Substrate Material:	Auger boring, Porous, Detrital sedimentary rock (unidentified)

Land Form

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

Surface Soil Condition (dry): Loose, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Episodic-Epicalcareous Self-Mulching Red Vertosol		Principal Profile Form:	Ug5.37
ASC Confidence:		Great Soil Group:	Brown clay
Analytical data are incomplete but reasonable confidence.			

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - *Astrebla* species
Tall Strata - Tree, , Isolated plants. *Species includes - *Acacia cambagei*

Surface Coarse Fragments: 2-10%, , , Substrate material

Profile Morphology

AB	0 - 0.1 m	Yellowish red (5YR5/6-Moist); ; Light medium clay; Strong grade of structure, Granular; Very coarse, (20 - 50) mm crack; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Concretions; Field pH 8.9 (pH meter); Gradual change to -
B2	0.1 - 0.61 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Concretions; Field pH 9.2 (pH meter); Diffuse change to -
B2	0.61 - 0.91 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Concretions; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Diffuse change
C	0.91 - 1.17 m	Light yellowish brown (2.5Y6/4-Moist); , 5YR44; Light clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Concretions; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

0-10 CM GRANULAR GRADING TO MODERATE BLOCKY STRUCTURE

Site Notes

KYABRA

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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				Comol (+)/kg				%
0 - 0.1	8.9H	0.06B	26.8K	5.4	0.68	1.8			34.7E	
0.1 - 0.61	9.2H	0.19B								
0.61 - 0.91	7.8H	2.51B	22K	4.8	0.37	7.8			35.3E	
0.91 - 1.17	7.8H	9.7B					<0.24D			

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 - 0.1	0.37C	0.41E	17C	0.017F	0.046B			10	9C	43	8	38
0.1 - 0.61	0.96C	0.35E	18C	0.015F	0.034B			3	7C	40	9	42
0.61 - 0.91	0.85C	0.24E	34C	0.015F	0.026B				6C	37	8	42
0.91 - 1.17	0.28C	0.19E	35C	0.017F	0.019B			2	8C	33	20	35

[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - 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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2_LOI	Loss on Ignition (%)
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
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