Project Name: WQR
Project Code: WQR **Site ID:** B131 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/07/51
Map Ref.: Sheet No. : 6859 1:100000
Northing/Long.: 139.988888888889
Easting/Lat.: -19.3888888888889
Locality:
Elevation: 79 metres
Rainfall: 510
Runoff: Slow
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Porous, Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Peneplain
Relief: 15 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous-Endohypersodic Epipedal Grey Vertosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Ug5.28
Great Soil Group: Grey clay

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Astrebla species
Mid Strata - Shrub, , Isolated plants. *Species includes - Acacia farnesiana
Tall Strata - Tree, , Isolated plants. *Species includes - Acacia cambagei

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, , Quartz

Profile Morphology

AB	0 - 0.15 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Strong grade of structure, Granular; Extremely coarse, (50 - 100) mm crack; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Gradual change to -
B2	0.15 - 0.51 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Extremely coarse, (50 - 100) mm crack; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Gradual change to -
B2	0.51 - 1.07 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Extremely coarse, (50 - 100) mm crack; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter); Gradual change to -
B2	1.14 - 1.37 m	Light yellowish brown (2.5Y6/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Extremely coarse, (50 - 100) mm crack; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.3 (pH meter); Gradual change to -
B2	1.37 - 1.98 m	Reddish yellow (7.5YR6/8-Moist); , 5Y54; Heavy clay; Weak grade of structure, Lenticular; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 7.4 (pH meter);

Morphological Notes

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

KAMILEROI

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.15	7.5H	0.02B								
0.15 - 0.51	8.5H	0.03B								
0.51 - 1.07	8.6H	0.11B								
1.14 - 1.37	8.3H	0.21B								
1.37 - 1.98	7.4H	1.26B								

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 - 0.15			6C	0.012F								
0.15 - 0.51												
0.51 - 1.07												
1.14 - 1.37												
1.37 - 1.98				0.016F								

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 - 0.15									
0.15 - 0.51									
0.51 - 1.07									
1.14 - 1.37									
1.37 - 1.98									

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Laboratory Analyses Completed for this profile

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
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded