Project Name: WQR
Project Code: WQR **Site ID:** B143 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/08/51
Map Ref.: Sheet No. : 7157 1:100000
Northing/Long.: 141.378888888889
Easting/Lat.: -20.0933333333333
Locality:
Elevation: 107 metres
Rainfall: 500
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
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: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Peneplain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Ug5.24
Great Soil Group: Grey clay

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Astrebla species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.1 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, Granular; Very coarse, (20 - 50) mm crack; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.1 (pH meter); Clear change to -
B2	0.1 - 0.46 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Gradual change to -
B2	0.46 - 0.91 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.7 (pH meter); Gradual change to -
B2	0.91 - 1.37 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Gradual change to -
B2	1.37 - 1.75 m	Olive brown (2.5Y4/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Gradual change to -
B3	1.75 - 1.98 m	Olive yellow (2.5Y6/5-Moist); ; Heavy clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

MILLUNGERA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	8.1H	0.03B								
0.1 - 0.46	8.8H	0.05B								
0.46 - 0.91	7.7H	2.7B								
0.91 - 1.37	7.8H	3.32B								
1.37 - 1.75	7.8H	3.29B								
1.75 - 1.98	7.8H	7.81B								

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			42C	0.02F								
0.1 - 0.46												
0.46 - 0.91												
0.91 - 1.37												
1.37 - 1.75												
1.75 - 1.98												

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 - 0.1										
0.1 - 0.46										
0.46 - 0.91										
0.91 - 1.37										
1.37 - 1.75										
1.75 - 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