Project Name: WQR
Project Code: WQR **Site ID:** B139 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 12/08/51
Map Ref.: Sheet No. : 6957 1:100000
Northing/Long.: 140.130833333333
Easting/Lat.: -20.3875
Locality:
Elevation: 91 metres
Rainfall: 500
Runoff: Slow
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.1 m deep,Slightly porous, Shale

Land Form

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

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Brown Vertosol
Mapping Unit: N/A
Principal Profile Form: Ug5.24

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Brown 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: 2-10%, medium gravelly, 6-20mm, , Substrate material

Profile Morphology

AB	0 - 0.15 m	Brown (10YR5/3-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Extremely coarse, (50 - 100) mm crack; Dry; Loose consistence; 2-10%, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Clear change to -
B2	0.15 - 0.61 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Firm consistence; 0-2%, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.2 (pH meter); Gradual change to -
B2	0.61 - 1.02 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.8 (pH meter); Gradual change to
C	1.07 - 1.22 m	Light yellowish brown (10YR6/4-Moist); ; Light medium clay; Massive grade of structure; Moist; 10-20%, Shale, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.9 (pH meter);

Morphological Notes

Observation Notes

0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

DALGONALLY

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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	8.9H	0.05B	39.7K	7.3	1.6	1.5			50.1E	
0.15 - 0.61	9.2H	0.1B								
0.61 - 1.02	7.8H	1.69B	26K	4.5	1.2	8.5			40.6E	
1.07 - 1.22	7.9H	7.26B								

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	0.15C	0.48E	240C	0.047F	0.051B			11	2C	18	15	62
0.15 - 0.61	0.31C	0.46E	300C	0.054F	0.047B			5	2C	17	16	62
0.61 - 1.02	0.3C	0.37E	320C	0.048F	0.042B				2C	16	19	61
1.07 - 1.22	0.39C				0.052B				<1C	7	24	59

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 - 0.61									
0.61 - 1.02									
1.07 - 1.22									

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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_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 (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
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
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