

Project Name: WQR
Project Code: WQR **Site ID:** B141 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	15/08/51	Elevation:	107 metres
Map Ref.:	Sheet No. : 7059 1:100000	Rainfall:	500
Northing/Long.:	140.7325	Runoff:	Slow
Easting/Lat.:	-19.725	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	1 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

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

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

Vegetation: Low Strata - Tussock grass, , Closed or dense. *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - Acacia sutherlandii, Atalaya hemiglauca

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.1 m	Grey (10YR5/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.1 (pH meter); Clear change to -
B2	0.1 - 0.46 m	Grey (10YR5/1-Moist); ; Medium heavy clay; Moderate grade of structure, Lenticular; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
B2	0.46 - 0.91 m	Grey (10YR5/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Gradual change to -
B2	0.91 - 1.32 m	Dark greyish brown (10YR4/2-Moist); , 2.5Y42; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Gradual change to -
B2	1.37 - 1.98 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Moderate grade of structure, Lenticular; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.9 (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	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	7.1H	0.02B	17.1K	5.9	0.2	0.29	1.58D		25.1E	
0.1 - 0.46	8.8H	0.03B								
0.46 - 0.91	9.3H	0.08B	13.5K	4	0.08	0.46	0.33D		22.5E	
0.91 - 1.32	9H	0.26B								
1.37 - 1.98	7.9H	2.63B								

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		0.29E	3C	0.005F	0.022B			2	39C	13	12	36
0.1 - 0.46	0.2C	0.29E	4C		0.018B			2	39C	13	11	36
0.46 - 0.91	0.45C	0.25E	2C	0.004F	0.015B			2	40C	13	10	35
0.91 - 1.32	0.29C	0.23E	3C		0.013B			2	38C	11	11	38
1.37 - 1.98	1.1C	0.08E	11C	0.005F				2	37C	13	11	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 (%)
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
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