

Project Name: WQR
Project Code: WQR **Site ID:** B497 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	19/11/62	Elevation:	No Data
Map Ref.:	Sheet No. : 8246 1:100000	Rainfall:	519
Northing/Long.:	146.7625	Runoff:	Moderately rapid
Easting/Lat.:	-25.7527777777778	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Soil pit, 0.76 m deep,Mudstone

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	15 metres
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Grey Vertosol		Principal Profile Form:	Ug5.22
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tussock grass, <0.25m, Sparse. *Species includes - Dichanthium sericeum, Astrebla species

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, rounded, Substrate material

Profile Morphology

AB	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, <2 mm, Granular; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Clear change to -
B2	0.15 - 0.51 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Gradual change to -
B2	0.51 - 0.76 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Gradual change to -
C	0.76 - 0.96 m	Light yellowish brown (2.5Y6/4-Moist); , 10YR62; Clay loam (Heavy); Massive grade of structure; Dry; Firm consistence; Gradual change to -
C	0.96 - 1.12 m	;

Morphological Notes

C Soft weathered fine sandy mudstone:

Observation Notes

76-112CM MOTTLED YB(2.5Y6/4) LG(2.5Y7/2) AND bY(10YR6/8) WEATHERED MUDSTONE.

Site Notes

AUGATHELLA

Observation ID: 1

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 - 0.15	8.6H	0.05B								
0.15 - 0.51	9H	0.09B	40.8K	1.9	0.61	4.8	4.8D			
0.51 - 0.76	9H	0.18B								
0.76 - 0.96		0.78B								
0.96 - 1.12		0.75B								

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 - 0.15		0.91A	188C	0.03F	0.11B							
0.15 - 0.51	3.1C	0.64A			0.08B			0	3C	25	17	52
0.51 - 0.76		0.63A	208C	0.031F	0.08B							
0.76 - 0.96		0.39A			0.04B							
0.96 - 1.12				0.049F								

[illegible]

Project Name: WQR
Project Code: WQR **Site ID:** B497 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

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 (CaCO3) - Not recorded
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
6A1	Organic carbon - Walkley and Black
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