Project Name: WQR
Project Code: WQR **Site ID:** B498 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	
Date Desc.:	21/11/62	**Elevation:**	381 metres
Map Ref.:	Sheet No. : 8545 1:100000	**Rainfall:**	503
Northing/Long.:	148.111111111111	**Runoff:**	Moderately rapid
Easting/Lat.:	-26.4972222222222	**Drainage:**	Moderately well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Qs	**Substrate Material:**	Soil pit, 0.69 m deep,Mudstone

Land Form

Rel/Slope Class:	Rolling rises 9-30m 10-32%	**Pattern Type:**	Rises
Morph. Type:	No Data	**Relief:**	30 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:
Epicalcareous Self-Mulching Brown Vertosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Ug5.32
Great Soil Group: Black earth

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

Vegetation:
Tall Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Dichanthium sericeum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Substrate material, coarse fragments; Field pH 8.3 (pH meter); Gradual change to -
B2	0.15 - 0.46 m	Brown (10YR4/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.9 (pH meter); Gradual change to -
B2	0.46 - 0.69 m	Brown (10YR4/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Dry; Strong consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.9 (pH meter); Gradual change to -
C	0.69 - 0.84 m	; Field pH 8.8 (pH meter); Gradual change to -
C	0.84 - 1.07 m	; Field pH 8.5 (pH meter);

Morphological Notes

C LYB(2.5Y5/5) DB(10YT4/3)& bG(2.5Y5/3) weat'd mudstone

Observation Notes

5-8MM THICK FRAGILE CRUST OVER STRONG FINE GRANULAR GRADING INTO STRONG10-20MM POLYHEDRAL:

Site Notes

AMBY

Project Name: WQR
Project Code: WQR **Site ID:** B498 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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	8.3H	0.05B	37.4K	5.4	1.2	1.2	3.6D			
0.15 - 0.46	8.9H	0.11B	34.1K	5.7	0.82	4.5	6.4D			
0.46 - 0.69	8.9H	0.18B	30.7K	6.5	0.78	6.3	5.5D			
0.69 - 0.84	8.8H	0.23B	27.6K	7	0.54	7.9	0D			
0.84 - 1.07	8.5H	0.44B								

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	0.2C	0.82A	40C	0.03F	0.11B			0	1C	19	17	62
0.15 - 0.46	0.5C	0.63A			0.09B			0	2C	19	18	59
0.46 - 0.69	0.7C	0.58A	82C	0.041F	0.08B			0	1C	19	19	58
0.69 - 0.84	0.7C	0.24A			0.07B			16	1C	22	22	51
0.84 - 1.07		0.14A		0.065F	0.05B							

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 - 0.46									
0.46 - 0.69									
0.69 - 0.84									
0.84 - 1.07									

Project Name: **WQR**
Project Code: **WQR** **Site ID:** **B498** **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 recordede
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