Project Name: WQA
Project Code: WQA **Site ID:** B633 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/09/69
Map Ref.: Sheet No. : 7744 1:100000
Northing/Long.: 144.147222222222
Easting/Lat.: -26.6166666666667
Locality:
Elevation: 210 metres
Rainfall: 345
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Auger boring
Geol. Ref.: Qa
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2 m deep,Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Pedaric Red Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr2.32
Great Soil Group: N/A

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Reddish brown (5YR5/4-Moist); ; Loam; Massive grade of structure; Dry; Weak consistence; Field pH 6.3 (pH meter); Abrupt change to -
B2	0.1 - 0.2 m	Reddish brown (2.5YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Field pH 6.6 (pH meter); Gradual change to -
B2	0.2 - 0.3 m	Reddish brown (2.5YR4/4-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; Field pH 6.7 (pH meter); Gradual change to -
B2	0.3 - 0.6 m	Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Firm consistence; Field pH 6.9 (pH meter); Gradual change to -
B2	0.6 - 0.9 m	Reddish brown (5YR5/4-Moist); ; Light clay; Moderate grade of structure, Angular blocky; Dry; Firm consistence; Field pH 7.4 (pH meter); Gradual change to -
B2	0.9 - 1.2 m	Yellowish red (5YR5/5-Moist); ; Light clay; Moderate grade of structure, Angular blocky; Dry; Firm consistence; Field pH 7.6 (pH meter); Gradual change to -
B2	1.2 - 1.5 m	Yellowish red (5YR5/5-Moist); ; Light clay; Moderate grade of structure, Angular blocky; Dry; Firm consistence; Field pH 7.7 (pH meter); Gradual change to -
B3	1.5 - 1.8 m	Brownish yellow (10YR6/5-Dry); ; Light clay; Weak grade of structure, Angular blocky; Dry; Firm consistence; Field pH 7.6 (pH meter);
B3	1.8 - 2.1 m	Brownish yellow (10YR6/5-Dry); ; Light clay; Weak grade of structure, Angular blocky; Dry; Firm consistence; Field pH 7.4 (pH meter);

Morphological Notes

Observation Notes

NO VEGETATION AT SITE.

Site Notes

QUILPIE

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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 - 0.1	6.3H	0.013B	4.1K	2.3	0.71	0.41	2.4D			
0.1 - 0.2	6.6H	0.11B								
0.2 - 0.3	6.7H	0.19B	9.4K	5.6	0.33	1.1	2.8D			
0.3 - 0.6	6.9H	0.2B								
0.6 - 0.9	7.4H	0.23B								
0.9 - 1.2	7.6H	0.22B	7.9K	7	0.15	2.1	0.56D			
1.2 - 1.5	7.7H	0.2B								
1.5 - 1.8	7.6H	0.2B								
1.8 - 2.1	7.4H	0.21B	4.6K	5	0.12	2.2	0.83D			

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		0.18A	25B	0.032F	0.025B	0.49B			1C	56	25	19
0.1 - 0.2												
0.2 - 0.3				0.031F		0.49B			1C	38	16	45
0.3 - 0.6												
0.6 - 0.9												
0.9 - 1.2		0.04A		0.02F	0.01B	0.49B			1C	46	22	31
1.2 - 1.5	0C											
1.5 - 1.8												
1.8 - 2.1				0.019F		0.42B			8C	53	13	25

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 - 0.2										
0.2 - 0.3										
0.3 - 0.6										
0.6 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.8										
1.8 - 2.1										

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - 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
17A_NR	Total element - K(%) - 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
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction