Project Name: WQA
Project Code: WQA **Site ID:** B603 **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. : 6948 1:100000
Northing/Long.: 140.333333333333
Easting/Lat.: -24.6766666666667
Locality:
Elevation: No Data
Rainfall: 221
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Auger boring
Geol. Ref.: Kw
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1 m deep,No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Plain
Relief: 20 metres
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Self-Mulching Red Vertosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Ug5.32
Great Soil Group: Red clay

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

Vegetation:

Tall Strata - Forb, , . *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, , Gravel

Profile Morphology

A1	0 - 0.1 m	Yellowish red (5YR5/6-Moist); Reddish yellow (5YR6/6-Dry); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; 2-10%, Gravel, coarse fragments; Field pH 7.3 (pH meter); Clear change to -
B2	0.1 - 0.2 m	Yellowish red (5YR5/6-Moist); ; Medium clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; 0-2%, Gravel, coarse fragments; Field pH 7.6 (pH meter); Gradual
B2	0.2 - 0.3 m	Yellowish red (5YR5/6-Moist); ; Medium clay; , Angular blocky; Dry; Very firm consistence; Field pH 7.4 (pH meter); Gradual change to -
B2	0.3 - 0.6 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; , Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.1 (pH meter); Gradual
	0.6 - 0.9 m	Yellowish red (5YR5/6-Moist); ; Light clay; , Angular blocky; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7 (pH meter); Gradual change to -
	0.9 - 1.05 m	Reddish yellow (5YR6/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Firm consistence; Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

NYAMA

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	7.3H	0.059B								
0.1 - 0.2	7.6H	0.065B								
0.2 - 0.3	7.4H	0.31B								
0.3 - 0.6	7.1H	1.2B								
0.6 - 0.9	7H	2.7B								
0.9 - 1.05	7.8H	6B								

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		0.25A	28B	0.028F	0.026B	0.85B			4C	44	5	46
0.1 - 0.2												
0.2 - 0.3			19B									
0.3 - 0.6		0.12A		0.029F	0.014B	0.86B			3C	38	8	49
0.6 - 0.9	<0.1C											
0.9 - 1.05	3.2C	0.07A		0.026F	0.008B	0.58B			8C	41	15	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 - 1.05									

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - Not recorded
17A_NR	Total element - K(%) - 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
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