

Project Name: WQA
Project Code: WQA **Site ID:** B631 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	210 metres
Map Ref.:	Sheet No. : 7644 1:100000	Rainfall:	301
Northing/Long.:	143.869444444444	Runoff:	No Data
Easting/Lat.:	-26.525	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Q	Substrate Material:	Auger boring, 2 m deep, No Data

Land Form

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

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Endohypersodic Self-Mulching Red Vertosol		Principal Profile Form:	Ug5.35
ASC Confidence:		Great Soil Group:	Brown clay

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Quartz

Profile Morphology

A1	0 - 0.1 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Abrupt change to -
B2	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.3 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.6 - 0.9 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, , Crystals;
B2	0.9 - 1.2 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, , Crystals;
B2	1.2 - 1.4 m	Yellowish red (5YR5/6-Moist); ; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Gypseous, , Crystals; Clear change to -
B2	1.4 - 1.5 m	Light yellowish brown (10YR6/4-Moist); , 10YR54, 20-50% , 5-15mm, Distinct; , 2.5YR46, 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Few (2 - 10 %), Gypseous, , Crystals;
B2	1.5 - 1.8 m	Light yellowish brown (10YR6/4-Moist); , 10YR54, 20-50% , 5-15mm, Distinct; , 2.5YR46, 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Few (2 - 10 %), Gypseous, , Crystals;
B2	1.8 - 2.1 m	Pale brown (10YR6/3-Moist); , 2.5Y84, 20-50% , 5-15mm, Distinct; , 2.5YR46, 20-50% , 5-15mm, Distinct; Medium heavy clay; , Lenticular; Dry; Very firm consistence; Few (2 - 10 %), Gypseous, , Crystals;

Morphological Notes

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Observation Notes

Site Notes

EROMANGA

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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	7.9H	0.36B	33.5K	3.6	1.1	1.6	0D			
0.1 - 0.2	7.8H	2.8B								
0.2 - 0.3	7.7H	8.2B								
0.3 - 0.6	7.8H	8.5B								
0.6 - 0.9	7.9H	10.7B								
0.9 - 1.2	7.5H	13.2B								
1.2 - 1.4	5.8H	14.2B								
1.4 - 1.5	4.8H	33.6B								
1.5 - 1.8	4.5H	15.2B								
1.8 - 2.1	4.3H	16.6B								

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	0.25C	0.3A	23B	0.028F	0.037B	0.75B			3C	34	11	51
0.1 - 0.2	0.42C	0.26A	16B	0.025F	0.027B	0.69B			3C	31	11	52
0.2 - 0.3	0.22C	0.22A	15B	0.023F	0.043B	0.66B			2C	28	11	49
0.3 - 0.6	0.19C	0.23A		0.024F	0.027B	0.65B			2C	28	11	48
0.6 - 0.9	0.29C	0.16A		0.021F	0.02B	0.68B			2C	26	11	48
0.9 - 1.2		0.08A	6B	0.02F	0.022B	0.68B			2C	21	9	48
1.2 - 1.4		0.06A			0.009B				1C	22	14	45
1.4 - 1.5		0.06A			0.011B				2C	16	13	36
1.5 - 1.8		0.06A	6B		0.014B				3C	15	18	42
1.8 - 2.1		0.06A		0.025F	0.016B	0.68B			1C	12	16	41

[illegible]

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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 (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
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 H ₂ SO ₄ (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_Hm	Hematite - X-Ray Diffraction
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