

Project Name: WQA
Project Code: WQA **Site ID:** B639 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/09/69	Elevation:	245 metres
Map Ref.:	Sheet No. : 7944 1:100000	Rainfall:	360
Northing/Long.:	145.363888888889	Runoff:	Slow
Easting/Lat.:	-26.808333333334	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qr	Substrate Material:	Auger boring, 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):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol		Principal Profile Form:	Gn2.12
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species
Tall Strata - Tree, , Isolated plants. *Species includes - Acacia aneura, Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m	Red (2.5YR5/6-Moist); ; Clay loam; Massive grade of structure; Weak consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments;
0.1 - 0.2 m	Red (2.5YR4/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Weak consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments;
0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Weak consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments;
0.3 - 0.6 m	Red (2.5YR5/8-Moist); ; Light clay; Massive grade of structure; Weak consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments;
0.6 - 0.8 m	Red (2.5YR5/8-Moist); ; Light clay; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Clear change to -
0.8 - 0.9 m	Red (2.5YR5/8-Moist); , 10YR66, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Light medium clay; Massive grade of structure; Weak consistence; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments;
0.9 - 1.05 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Weak grade of structure, Polyhedral; Firm consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments;
1.05 - 1.13 m	White (10YR8/1-Moist); , 2.5Y76, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Massive grade of structure; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Substrate material, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

YARRONVALE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
							(+)/kg		
0 - 0.1	4.9H	0.011B	1.8K	0.77	0.8	0.09	6.2D		
0.1 - 0.2	4.9H	0.011B							
0.2 - 0.3	5.1H	0.01B							
0.3 - 0.6	5.7H	0.024B	2.9K	1.4	0.46	0.1	3D		
0.6 - 0.8	6.3H	0.009B							
0.8 - 0.9	6.9H	0.011B							
0.9 - 1.05	7.6H	0.018B	5.2K	5	0.58	0.39	1.9D		
1.05 - 1.13	7.5H	0.029B							

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		0.47A	4B	0.032F	0.046B	0.44B				14C	40	12	34
0.1 - 0.2													
0.2 - 0.3													
0.3 - 0.6		0.15A		0.022F	0.03B	0.45B				10C	40	12	36
0.6 - 0.8													
0.8 - 0.9													
0.9 - 1.05		0.1A		0.02F	0.021B	0.46B				5C	31	12	54
1.05 - 1.13		0.11A		0.015F	0.022B	0.44B				23C	29	15	31

[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
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 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_II	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction