

Project Name: WQA
Project Code: WQA **Site ID:** B635 **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. : 7744 1:100000	Rainfall:	345
Northing/Long.:	144.483333333333	Runoff:	Moderately rapid
Easting/Lat.:	-26.777777777778	Drainage:	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	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): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Mesotrophic Red Kandosol		Principal Profile Form:	Gn2.13
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species
Tall Strata - Tree, , Very sparse. *Species includes - Acacia aneura

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Red (2.5YR5/6-Dry); ; Sandy loam; Massive grade of structure; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence;
A1	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence;
A1	0.2 - 0.3 m	Dark red (2.5YR3/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Gradual change to -
B2	0.3 - 0.6 m	Dark red (2.5YR3/8-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence;
B2	0.6 - 0.9 m	Dark red (2.5YR3/8-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence;
B2	0.9 - 1.2 m	Red (10R4/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B2	1.2 - 1.35 m	Red (10R4/6-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B3	1.35 - 1.5 m	Dark red (10R3/6-Moist); , 10YR73, 20-50% , 5-15mm, Prominent; , 10YR83, 20-50% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B3	1.5 - 1.65 m	Dark red (10R3/6-Moist); , 10YR73, 20-50% , 5-15mm, Prominent; , 10YR83, 20-50% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B3	1.65 - 1.8 m	Dark red (10R3/6-Moist); , 10YR73, 0-2% , 5-15mm, Prominent; , 0-2% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

Observation Notes

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GOOYANA CREEK

Site Notes

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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		%
						Cmol (+)/kg			
0 - 0.1	5.6H	<0.01B	1.1K	0.37	0.43	0.13	4.9D		
0.1 - 0.2	5.3H	<0.01B							
0.2 - 0.3	5.3H	<0.01B	0.3K	0.11	0.27	0.03	4.3D		
0.3 - 0.6	5.3H	<0.01B							
0.6 - 0.9	5.2H	<0.01B							
0.9 - 1.2	5.5H	<0.01B	0.66K	0.99	0.34	0.03	2.6D		
1.2 - 1.35	5.9H	<0.01B	0.53K	1.1	0.43	0.11	2.7D		
1.35 - 1.5	6.5H	<0.01B	0.69K	1.3	0.45	0.26	1.4D		
1.5 - 1.65	6.8H	0.02B							
1.65 - 1.8	8.5H	0.02B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.65A	5B	0.018F	0.04B	0.23B			43C	34	2	18
0.1 - 0.2		0.47A			0.038B				41C	38	5	16
0.2 - 0.3		0.3A	3B		0.03B				40C	40	4	16
0.3 - 0.6		0.18A		0.012F	0.023B	0.24B			36C	40	4	20
0.6 - 0.9		0.12A			0.02B				32C	40	5	22
0.9 - 1.2		0.09A		0.011F	0.018B	0.27B			30C	40	5	24
1.2 - 1.35									30C	45	7	16
1.35 - 1.5		0.06A			0.013B				31C	46	8	14
1.5 - 1.65									31C	41	8	18
1.65 - 1.8	0.03C								39C	44	8	6

[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 (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 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_Hm	Hematite - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction