

Project Name: WQA
Project Code: WQA **Site ID:** B622 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble	Locality:
Date Desc.: 01/09/69	Elevation: 134 metres
Map Ref.: Sheet No. : 7447 1:100000	Rainfall: 278
Northing/Long.: 142.686111111111	Runoff: Very slow
Easting/Lat.: -25.388888888889	Drainage: Moderately well drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: Tg	Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1%	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
Haplic Mesotrophic Red Kandosol	Principal Profile Form: Gn2.12
ASC Confidence:	Great Soil Group: Red earth

All necessary analytical data are available.

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

Vegetation:

Low Strata - Tussock grass, , . *Species includes - None recorded
 Mid Strata - Shrub, , . *Species includes - Hakea species
 Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus papuana, Eucalyptus polycarpa,

Acacia aneura

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.07 m	Red (2.5YR5/6-Dry); ; Loamy sand; Massive grade of structure; Dry; Very weak consistence; Clear change to -
A12	0.07 - 0.1 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Loamy sand (Heavy); Massive grade of structure; Dry; Very weak consistence;
B1	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence;
B2	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence;
B2	0.3 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence;
B2	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence;
B2	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Gradual change to -
	1.2 - 1.5 m	Red (2.5YR4/6-Moist); , 10R34; Sandy clay loam; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations;
	1.5 - 1.8 m	Red (2.5YR4/6-Moist); , 10R34; Sandy clay loam; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations;
	1.8 - 2.1 m	Red (2.5YR4/6-Moist); , 10R34; Sandy clay loam; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Gradual change to -
	2.1 - 2.4 m	Red (10R4/6-Dry); , 10YR76, 2-10% , 0-5mm, Distinct; , 10YR62, 2-10% , 0-5mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Firm consistence;
	2.4 - 2.7 m	Red (2.5YR5/6-Dry); , 10YR68, 20-50% , 5-15mm, Prominent; , 10YR62, 20-50% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Firm consistence;

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2.7 - 3 m Red (2.5YR5/6-Dry); , 10YR62, 20-50% , 15-30mm, Prominent; , 10YR82, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Firm consistence;

Morphological Notes

Observation Notes

COARSE SAND GRAINS (QUARTZ) ON SURFACE AND THROUGHOUT PROFILE.

Site Notes

WINDORAH

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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 - 0.07	5.5H	0.011B	0.76K	0.5	0.22	0.05	2.6D		
0.07 - 0.1	5.7H	0.012B	0.76K	0.55	0.31	0.05	2.8D		
0.1 - 0.2	5.7H	0.016B	0.84K	0.5	0.48	0.07	2.4D		
0.2 - 0.3	5.8H	0.011B							
0.3 - 0.6	5.8H	0.015B	1.2K	0.74	0.37	0.05	2.2D		
0.6 - 0.9	6H	0.026B							
0.9 - 1.2	6.6H	0.013B	1.6K	1.5	0.33	0.05	2D		
1.2 - 1.5	6.8H	0.019B							
1.5 - 1.8	6.9H	0.013B							
1.8 - 2.1	6.8H	0.017B	1.3K	2.3	0.33	0.18	2.3D		
2.1 - 2.4	7.1H	0.01B							
2.4 - 2.7	7.1H	0.017B							
2.7 - 3	7.9H	0.017B	3.9K	5.3	0.59	0.16	0.79D		

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 - 0.07		0.2A	12B	0.012F	0.02B	0.19B			63C	25	3	10
0.07 - 0.1		0.14A	4B	0.011F	0.015B	0.2B			60C	25	4	12
0.1 - 0.2		0.17A		0.011F	0.015B	0.23B			57C	27	1	15
0.2 - 0.3		0.14A	3B	0.01F	0.018B	0.24B			54C	29	4	15
0.3 - 0.6		0.15A		0.013F	0.02B	0.28B			48C	31	1	19
0.6 - 0.9		0.11A		0.012F	0.018B	0.29B			48C	30	4	20
0.9 - 1.2		0.09A		0.014F	0.018B	0.32B			47C	29	5	20
1.2 - 1.5		0.08A							44C	30	4	23
1.5 - 1.8		0.07A							46C	30	5	20
1.8 - 2.1		0.06A		0.012F	0.013B	0.27B			42C	30	5	24
2.1 - 2.4		0.05A							40C	30	7	24
2.4 - 2.7		0.04A			0.008B				39C	30	7	24
2.7 - 3	0C	0.05A		0.011F	0.049B	0.34B			38C	28	9	27

[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_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction