WQA **Project Name:**

Project Code: WQA B637 Observation ID: 1 Site ID:

Agency Name: **CSIRO** Division of Soils (QLD)

Site Information

Desc. By: Date Desc.: G.D. Hubble Locality:

Elevation: 01/09/69 280 metres Sheet No.: 7844 1:100000 Map Ref.: Rainfall: 400

Northing/Long.: 144.9222222222 Runoff: Moderately rapid Drainage: Moderately well drained Easting/Lat.: -26.872222222222

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Auger boring, Unconsolidated material Qr

(unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Plain Morph. Type: No Data Relief: 15 metres Elem. Type: Plain Slope Category: No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Um5.2 Acidic Mesotrophic Red Kandosol **Principal Profile Form: 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 - Aristida species

Tall Strata - Tree, , Mid-dense. *Species includes - Acacia aneura, Eucalyptus populnea

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, , Substrate material

Profile Morphology

<u> </u>		
	0 - 0.1 m	Red (2.5YR4/6-Moist); ; Clay loam; Massive grade of structure; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Clay loam; Massive grade of structure; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.6 - 0.9 m	Red (2.5YR4/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Firm consistence; 0-2%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Gradual change to -
	0.9 - 1.2 m	Red (2.5YR4/6-Moist); ; Clay loam (Heavy); Massive grade of structure; Firm consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Gradual change to -
	1.2 - 1.5 m	Reddish yellow (5YR6/6-Moist); , 10YR66, 20-50% , 0-5mm, Prominent; , 2.5Y72, 20-50% , 0-5mm, Prominent; Clay loam (Heavy); Massive grade of structure; Firm consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Diffuse change to -
	1.5 - 1.8 m	Brownish yellow (10YR6/5-Moist); , 2.5Y72, 20-50% , 0-5mm, Prominent; , 5YR66, 20-50% , 0-5mm, Prominent; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Diffuse change to -
	1.8 - 2 m	Olive yellow (2.5Y6/5-Moist); , 10YR56, 20-50% , 0-5mm, Prominent; , 10YR72, 20-50% , 0-5mm, Prominent; Clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments;

Morphological Notes Observation Notes

Site Notes

WQA Site ID: B63 CSIRO Division of Soils (QLD) B637 Observation ID: 1

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Laboratory Test Results:

Depth	рН	1:5 EC		nangeable		NI-		nangeable	CEC	ı	ECEC	E	SP
m		dS/m	Ca Mg		К	Na Acidity Cmol (+)/kg					9	6	
0 - 0.1	5.1H	0.014B	1.8K	0.68	0.84	0.07		7D					
0.1 - 0.2	5H	0.009B	4.01/	0.44	0.04	0.05		F 0D					
0.2 - 0.3 0.3 - 0.6	4.9H 5H	0.009B 0.008B	1.2K 1.4K	0.41 0.46	0.64 0.62	0.05 0.05		5.9D 5.3D					
0.6 - 0.9	5.1H	0.006B	1.4K	0.46	0.02	0.05		5.50					
0.0 - 0.9	5.4H	0.007B	1K	1.6	0.43	0.15		4.3D					
1.2 - 1.5	6.2H	0.007B	111	1.0	0.40	0.10		4.50					
1.5 - 1.8	7.6H	0.023B	4K	4.7	1.3	1.8		1.6D					
1.8 - 2	8.1H	0.071B											
Depth	CaCO3	Organic	Avail.	Total	Total	To	otal	Bulk	Pa	rticle	Size	Analysis	
Бериі	04000	C	P	P	N		K	Density	GV	CS	FS	Silt (Clay
m	%	%	mg/kg	%	%	(%	Mg/m3			%		•
0 - 0.1		0.81A	5B	0.027F			0.43B			9C	45		35
0.1 - 0.2		0.6A		0.03F	0.05		0.44B			9C	44	_	37
0.2 - 0.3		0.39A	2B	0.026F		-	0.42B			9C	47		34
0.3 - 0.6		0.26A		0.023F			0.45B			8C	45	_	36
0.6 - 0.9		0.16A			0.03					9C	41	10	39
0.9 - 1.2		0.12A		0.022F		-	0.45B			8C	43	_	38
1.2 - 1.5		0.1A			0.02					14C	44		29
1.5 - 1.8	0.000	0.04A		0.0405	0.01		0.000			17C	34		36 9
1.8 - 2	0.030	0.04A		0.016F	0.01	4B (J.0∠B			30C	51	10	9
Depth COLE Gravimetric/Volumetric Water Contents K sat K uns													
Depth COLE Gravimetric/Volumetric Water Contents Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Ba											ιτ	K unsat	
m		Jal.	U.UJ Dai	0.1 Bai g/g		aı ;) Dai 13	13 Dai	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 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2

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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
15_NR_MG
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
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 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
P10_NR_FS
P10_NR_FS
P10_NR_Z
RD_C_II
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
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