WQA **Project Name:**

Project Code: WQA B642 Observation ID: 1 Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Site Information

G.D. Hubble Locality:

Desc. By: Date Desc.: Elevation: 01/09/69 300 metres Map Ref.: Sheet No.: 8145 1:100000 Rainfall: 485 Northing/Long.: 146.17222222222 Runoff: Slow

Moderately well drained Easting/Lat.: -26.425 Drainage:

Geology

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

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

(unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Morph. Type: No Data Relief: 5 metres Plain Elem. Type: Slope Category: No Data Aspect: No Data Slope: 0 %

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:

Mid Strata - Shrub, , . *Species includes - Hakea species, Eremophila mitchellii

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia aneura, Eucalyptus populnea

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

	1 TOTTIC	Wiciphology	
,	A1	0 - 0.1 m	Reddish brown (2.5YR4/4-Moist); Red (2.5YR5/5-Dry); ; Sandy loam (Heavy); Massive grade of structure; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Dry; Weak consistence; Field pH 5.5 (pH meter); Gradual change to -
	В	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; Field pH 5.5 (pH meter); Gradual change to -
-	В	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); Red (2.5YR4/6-Dry); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; Field pH 5.4 (pH meter); Gradual change to -
	В	0.3 - 0.6 m	Dark red (2.5YR3/6-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; Field pH 5.7 (pH meter); Gradual change to -
	В	0.6 - 0.9 m	Dark red (2.5YR3/6-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; Field pH 6.2 (pH meter); Diffuse change to -
	В	0.9 - 1.2 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Field pH 6.8 (pH meter); Diffuse change to -
-	В	1.2 - 1.5 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Field pH 7.2 (pH meter); Diffuse change to -
-	В	1.5 - 1.8 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; Field pH 7.2 (pH meter); Diffuse change to -
	В	1.8 - 2 m	Dark red (2.5YR3/6-Moist); , 10YR64; , 10YR72; Sandy clay loam (Heavy); Massive grade of structure; Dry; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 7.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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Project Name: Project Code: Agency Name:

WQA
WQA Site ID: B64
CSIRO Division of Soils (QLD) B642 Observation ID: 1

Project Name: Project Code: Agency Name: WQA

WQA Site ID: B64 CSIRO Division of Soils (QLD) B642 Observation ID: 1

Laboratory Test Results:

Depth	pН	1:5 EC		hangeable Mg	Cations K	Na		nangeable Acidity	CEC	ı	ECEC	E	SP
m		dS/m	·a	wig	ĸ	Cmol (+)/kg		ciuity				Q	%
0 - 0.1	5.5H	0.009B	1.8K	0.42	0.46	0.06		4.4D					
0.1 - 0.2 0.2 - 0.3 0.3 - 0.6	5.5H 5.4H 5.7H	0.01B 0.011B 0.012B	1.4K	0.06	0.39	0.04		4.1D					
0.6 - 0.9	6.2H	0.01B	0.71/	0.00	0.07	0.04		4.00					
0.9 - 1.2 1.2 - 1.5	6.8H 7.2H	0.018B 0.018B	2.7K	0.98	0.37	0.04		1.9D					
1.5 - 1.8	7.2H	0.015B	2.4K	2.1	0.35	0.27		1.2D					
1.8 - 2	7.3H	0.016B	2.1K	2.3	0.42	0.29		1.5D					
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al	Bulk	Pa	article	Size	Analysis	
· 	%	C %	Р	P	N	K %		Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%		Mg/m3			%		
0 - 0.1		0.66A	4B	0.022F	0.0	4B 0.	28B			40C	36	3	20
0.1 - 0.2		0.44A		0.018F			28B			37C	39		21
0.2 - 0.3		0.39A	3B	0.018F			26B			37C	38	-	22
0.3 - 0.6		0.23A		0.016F			29B			37C	38		24
0.6 - 0.9		0.21A			0.01					38C	35		24
0.9 - 1.2		0.12A		0.014F		_	31B			38C	34	_	23
1.2 - 1.5		0.1A			0.01	-				34C	34		26
1.5 - 1.8		0.07A			0.01	-				31C	36	-	23
1.8 - 2		0.07A		0.016F	0.01	3B 0.	36B			32C	39	10	21
Depth	n COLE Gravimetric/Volumetric Water Contents K sat										t	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar 3	5	Bar 15	Bar	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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Agency Name: **CSIRO** Division of Soils (QLD)

Laboratory Analyses Completed for this profile

Total element - S(%) - Not recorded 10A NR

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_H Hydrogen Cation - meg 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_LŌI Loss on Ignition (%) Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR 5_NR pH of soil - Not recorded

Water soluble Chloride - Cl(%) - Not recordede

Organic carbon - Walkley and Black 6A1 7_NR Total nitrogen (%) - Not recorded 9A_NR 9G_BSES Total element - P(%) - Not recorded

Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

P10_NR_C Clay (%) - Not recorded

P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded XRD_C_Hm Hematite - X-Ray Diffraction XRD_C_II XRD_C_Ka Illite - X-Ray Diffraction Kaolin - X-Ray Diffraction XRD_C_Qz Quartz - X-Ray Diffraction