

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B642      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	01/09/69	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8145 1:100000	<b>Rainfall:</b>	485
<b>Northing/Long.:</b>	146.172222222222	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-26.425	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qa	<b>Substrate Material:</b>	Auger boring, Unconsolidated material (unidentified)

**Land Form**

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

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Mesotrophic Red Kandosol		<b>Principal Profile Form:</b>	Gn2.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	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**

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 -
B	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 -
B	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 -
B	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 -
B	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 -
B	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 -
B	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 -
B	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 -
B	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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**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_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction