

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B598      **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>	87 metres
<b>Map Ref.:</b>	Sheet No. : 6848 1:100000	<b>Rainfall:</b>	203
<b>Northing/Long.:</b>	139.688888888889	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-24.505555555556	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Kw	<b>Substrate Material:</b>	Auger boring, 1 m deep, No Data

**Land Form**

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Pedaric Red Sodosol	<b>Principal Profile Form:</b>	Dr1.33
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Desert loam
All necessary analytical data are available.		

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:** 90-100%, medium gravelly, 6-20mm, , Gravel

**Profile Morphology**

A1	0 - 0.04 m	Brown (7.5YR5/4-Moist); Pink (7.5YR7/4-Dry); ; Fine sandy loam; Massive grade of structure; Dry; Weak consistence; 50-90%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Sharp change to -
B21	0.04 - 0.1 m	Yellowish red (5YR5/5-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Very weak consistence; Moderately plastic; Subplastic; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments;
B21	0.1 - 0.2 m	Yellowish red (5YR5/5-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Very weak consistence; Moderately plastic; Subplastic;
B21	0.2 - 0.3 m	Yellowish red (5YR5/5-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Dry; Very weak consistence; Moderately plastic; Subplastic; Gradual change to -
B22	0.3 - 0.5 m	Reddish yellow (7.5YR6/6-Dry); ; Light medium clay; Moderate grade of structure, Polyhedral; Dry; Very weak consistence; Moderately plastic; Subplastic;
B22	0.5 - 0.6 m	Brownish yellow (10YR6/6-Dry); ; Light medium clay; Moderate grade of structure, Polyhedral; Dry; Very weak consistence; Moderately plastic; Subplastic; Very few (0 - 2 %), Gypseous, , Crystals;
B22	0.6 - 0.75 m	Brownish yellow (10YR6/6-Dry); ; Light medium clay; Moderate grade of structure, Polyhedral; Dry; Weak consistence; Moderately plastic; Subplastic; Very few (0 - 2 %), Gypseous, , Crystals; Gradual change to -
C	0.75 - 0.9 m	Yellowish brown (10YR5/6-Dry); , 10YR81, 20-50% , 5-15mm, Distinct; , 10YR66, 20-50% , 5-15mm, Distinct; Silty light clay; Massive grade of structure; Dry; Weak consistence; Moderately plastic; Subplastic; Common (10 - 20 %), Gypseous, , Crystals;
	0.9 - 1.2 m	Yellowish brown (10YR5/6-Dry); , 10YR81, 20-50% , 5-15mm, Distinct; , 10YR66, 20-50% , 5-15mm, Distinct; Silty medium clay; Massive grade of structure; Weak consistence; Few (2 - 10 %), Gypseous, , Crystals;
	1.2 - 1.5 m	Yellowish brown (10YR5/6-Dry); , 10YR81, 20-50% , 5-15mm, Distinct; , 10YR66, 20-50% , 5-15mm, Distinct; Silty medium clay; Massive grade of structure; Weak consistence; Few (2 - 10 %), Gypseous, , Crystals;

**Morphological Notes**

**Observation Notes**

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NO VEGETATION OCCURS AT SITE: PATCHES OF BLEACH AT BASE OF A1 HORIZON: BELOW 75CM MATERIAL LOOKS LIKE  
WEATHERED SILTY MUDSTONE:

**Site Notes**

CLUNY

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.03	7.6H	0.023B	3K	1.6	0.41	0.95	2.4D			
0.03 - 0.1	7.5H	0.38B								
0.1 - 0.2	7.6H	0.84B								
0.2 - 0.3	7.4H	1.3B	10.2K	6.8	0.6	6.8	0D			
0.3 - 0.5	7.2H	2.1B								
0.5 - 0.6	7.4H	5.4B								
0.6 - 0.75	7.6H	5.4B								
0.75 - 0.9	7.8H	14B								
0.9 - 1.2	7.7H	10B								
1.2 - 1.5	7.7H	7.2B								

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 - 0.03		0.06E	23B	0.027F	0.013B	0.54B						
0.03 - 0.1		0.13E	43B	0.037F	0.019B	0.88B			17C	65	9	10
0.1 - 0.2		0.1E		0.031F	0.026B	0.75B			10C	44	5	40
0.2 - 0.3		0.08E	51B	0.032F	0.016B	0.71B			9C	46	6	37
0.3 - 0.5		0.11E		0.037F	0.019B	0.72B			7C	41	6	44
0.5 - 0.6		0.04E		0.042F	0.011B	0.68B			5C	33	11	45
0.6 - 0.75		0.04E		0.038F	0.014B	0.67B			5C	29	15	45
0.75 - 0.9	0.04C	0.03E	60B	0.03F	0.022B	0.5B						
0.9 - 1.2		0.02E	5B	0.023F	0.017B	0.57B						
1.2 - 1.5		0.02E		0.021F	0.014B	0.59B						

[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 (CaCO <sub>3</sub> ) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (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_II	Illite - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction