

**Project Name:** Irrigated Soils of the M.I.A., NSW  
**Project Code:** IS **Site ID:** C642b  
**Agency Name:** CSIRO Division of Soils (ACT)

**Observation ID:** 1

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	Approximately 12 kilometres south-southeast of Griffith. Willbriggie, NSW.
<b>Date Desc.:</b>	01/01/66	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	146.05	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-34.41666667	<b>Drainage:</b>	No Data

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Ug5.6
		<b>Great Soil Group:</b>	Brown clay

**Site Disturbance:** Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Light clay; 2-5 mm, Angular blocky; Very strong consistence;
0.1 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Very few (0 - 2 %), Calcareous, , Concretions;
0.3 - 0.9 m	Brown (7.5YR4/3-Moist); Yellowish red (5YR5/6-Moist); ; Medium clay; Few (2 - 10 %), Calcareous, , Concretions;

**Morphological Notes**

Rusty mottles also present.  
Grey surface staining.  
occasional grey mottle.

**Observation Notes**

PPF, Possibly Dr2 soil converted to Ug5.6 by cultivation.

**Site Notes**

Site a and b are no more than 10 to 20m apart

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Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	mm/h	mm/h
m		g/g - m <sup>3</sup> /m <sup>3</sup>								
0 - 10								0.18B		
10 - 20										
20 - 30								0.25B		
30 - 40								0.25B		
40 - 60								0.25B		
60 - 80								0.24B		

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**Laboratory Analyses Completed for this profile**

15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
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
P3A1	Bulk density - g/cm3
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate
P6_LP	Dispersion Index (Loveday and Pyle, 1973)