

**Project Name:** Irrigated Soils of the M.I.A., NSW  
**Project Code:** IS **Site ID:** C637b  
**Agency Name:** CSIRO Division of Soils (ACT)

**Observation ID:** 1

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	Approximately 7 kilometres west of Griffith. Benerembah, 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>	145.95	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-34.28333333	<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):**

**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>	Dr2.13
		<b>Great Soil Group:</b>	Red-brown earth

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.01 m	;
0.01 - 0.1 m	Brown (7.5YR4/3-Moist); ; Fine sandy clay loam; Very strong consistence;
0.1 - 0.25 m	Dark reddish brown (5YR3/4-Moist); Dark yellowish brown (10YR3/4-Moist); ; Medium clay; , Angular blocky; Very strong consistence;
0.25 - 0.35 m	Dark reddish brown (5YR3/4-Moist); Dark yellowish brown (10YR3/4-Moist); ; Medium clay; , Angular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions;
0.35 - 0.9 m	Reddish brown (5YR4/4-Moist); Reddish yellow (5YR6/6-Moist); ; Medium clay; Smooth-ped fabric; , Calcareous, , Concretions;

**Morphological Notes**

Patchy accumulation of organic mat.  
Rusty mottles present. Soil is hard and compact.  
10YR34 occurs as stains.  
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Shiny aggregate surfaces; carbonate concretions and powder.

**Observation Notes**

GSG = Transitional RBE.

**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 - m3/m3								
0 - 10								0.17B		
10 - 20										
20 - 30								0.22B		
30 - 40								0.22B		
40 - 60								0.21B		
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)