Project Name: **Irrigated Soils of the M.I.A., NSW**
Project Code: **IS** **Site ID:** **C647b** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: J. Loveday
Locality: Approximately 7 kilometres west southwest of Griffith. Warrawidgee, NSW.
Date Desc.: 01/01/66
Elevation: No Data
Map Ref.: 1:100000
Rainfall: No Data
Northing/Long.: 145.81666667
Runoff: No Data
Easting/Lat.: -34.28333333
Drainage: No Data

Geology

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

Land Form

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

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Db1.13
Great Soil Group: Red-brown earth

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam;
0.1 - 0.35 m	Dark brown (10YR3/3-Moist); ; Medium clay; Smooth-ped fabric;
0.35 - 0.7 m	Dark brown (10YR3/3-Moist); ; Medium clay; Smooth-ped fabric; Very few (0 - 2 %), Calcareous, , Concretions;
0.7 - 0.9 m	Brown (7.5YR5/4-Moist); ; Sandy medium clay; , Calcareous, , Soft segregations; , Calcareous, , Concretions;

Morphological Notes

Dry brittle; scattered narrow surface cracks.
Shiny aggregate surfaces.
Shiny aggregate surfaces.
Light carbonate, soft and concretionary.

Observation Notes

GSG = (?) Transitional red-brown earth.

Site Notes

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

Project Name: Irrigated Soils of the M.I.A., NSW
Project Code: IS **Site ID:** C647b **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 10	8A	0.21A	14.3E	4.4	1.7	0.1	1.8D		22.3B	
10 - 20	8A	0.18A								
20 - 30	8.3A	0.15A	12.8E	10.9	1.4	0.6	0.9D		26.6B	
30 - 40	8.6A	0.21A								
40 - 60	8.8A	0.27A								
60 - 80	9.4A	0.39A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 10	1.06B						1.32		15C	36	8	41
10 - 20							1.46					
20 - 30	1.54B						1.43		15C	27	7	51
30 - 40							1.48					
40 - 60							1.52					
60 - 80							1.56					

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		
m		g/g - m3/m3							mm/h	mm/h
0 - 10								0.16B		
10 - 20										
20 - 30								0.18B		
30 - 40								0.19B		
40 - 60								0.2B		
60 - 80								0.2B		

Project Name: **Irrigated Soils of the M.I.A., NSW**
Project Code: **IS** **Site ID:** **C647b** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Laboratory Analyses Completed for this profile

15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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)