

Project Name: Irrigated Soils of the M.I.A., NSW
Project Code: IS **Site ID:** C644b
Agency Name: CSIRO Division of Soils (ACT)

Observation ID: 1

Site Information

| | | | |
|------------------------|--------------|-------------------|--|
| Desc. By: | J. Loveday | Locality: | Approximately 22 kilometres south southeast of Griffith. Willbriggie, NSW. |
| Date Desc.: | 01/01/66 | Elevation: | No Data |
| Map Ref.: | 1:100000 | Rainfall: | No Data |
| Northing/Long.: | 146.05 | Runoff: | No Data |
| Easting/Lat.: | -34.41666667 | 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): Loose

Erosion:

Soil Classification

| | | | |
|--|--------------------------------|--------------------------------|------------|
| Australian Soil Classification: | N/A | Mapping Unit: | N/A |
| ASC Confidence: | Confidence level not specified | Principal Profile Form: | Ug5.34 |
| | | Great Soil Group: | Brown clay |

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | |
|-------------|---|
| 0 - 0.1 m | Dark greyish brown (10YR4/2-Moist); ; Medium clay; , Angular blocky; Very few (0 - 2 %), Calcareous, , Concretions; |
| 0.1 - 0.9 m | Brown (7.5YR4/3-Moist); ; Medium clay; Very few (0 - 2 %), Calcareous, , Concretions; |

Morphological Notes

Colour has occasional rusty mottles.
Colour (7.5YR4/3) is gradually lighter with depth (7.5YR5/4).

Observation Notes

Crumbly at surface.

Site Notes

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

Observation ID: 1

| 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 ³ /m ³ | | | | | | | | |
| 0 - 10 | | | | | | | | 0.19B | | |
| 10 - 20 | | | | | | | | | | |
| 20 - 30 | | | | | | | | 0.19B | | |
| 30 - 40 | | | | | | | | 0.19B | | |
| 40 - 60 | | | | | | | | 0.21B | | |
| 60 - 80 | | | | | | | | 0.21B | | |

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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) |