

Project Name: Australia Map Project
Project Code: AMP **Site ID:** A836 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

| | | | |
|------------------------|-----------------------------|-------------------|------------------|
| Desc. By: | W.M. MacArthur | Locality: | |
| Date Desc.: | 05/07/62 | Elevation: | 640 metres |
| Map Ref.: | Sheet No. : SH56-5 1:250000 | Rainfall: | 0 |
| Northing/Long.: | 150.938888888889 | Runoff: | Moderately rapid |
| Easting/Lat.: | -29.722222222222 | Drainage: | No Data |

Geology

| | | | |
|----------------------|---------|------------------------------------|---------|
| ExposureType: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|---------|------------------------|-----------|
| Rel/Slope Class: | No Data | Pattern Type: | Plateau |
| Morph. Type: | No Data | Relief: | 30 metres |
| Elem. Type: | No Data | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|---|--|--------------------------------|-----------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Haplic Eutrophic Red Dermosol | | Principal Profile Form: | Uf |
| ASC Confidence: | | Great Soil Group: | Euchrozem |
| Analytical data are incomplete but reasonable confidence. | | | |

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|----|---------------|---|
| A | 0 - 0.15 m | Dark reddish brown (2.5YR3/3-Moist); ; Clay loam; Moderate grade of structure, Subangular blocky; Strong consistence; Moderately plastic; |
| AB | 0.15 - 0.3 m | Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Moderately plastic; |
| B | 0.3 - 0.6 m | Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Strong consistence; Moderately plastic; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; |
| B | 0.6 - 0.91 m | Dark red (2.5YR3/6-Moist); ; Heavy clay; Strong grade of structure; Strong consistence; Moderately plastic; |
| BC | 0.91 - 1.21 m | Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure; Strong consistence; Moderately plastic; |
| BC | 1.21 - 1.82 m | Yellowish red (5YR4/6-Moist); , 7.5YR44; Medium clay; Strong grade of structure; Strong consistence; Moderately plastic; |
| BC | 1.82 - 2.43 m | Reddish brown (5YR4/4-Moist); , 2.5YR36; Medium clay; Strong grade of structure; Strong consistence; Moderately plastic; |
| C | 2.74 - 3.35 m | Yellowish red (5YR3/6-Moist); ; Medium clay; Strong grade of structure, 2-5 mm; Strong consistence; Moderately plastic; |

Morphological Notes

Observation Notes

LAYERS 1 & 2 BIOTIC ACTIVITY:COATINGS ON PEDS AND WORMCASTS

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | Exchangeable | CEC | ECEC | ESP |
|-------------|------|--------|----------------------|----|--------------|------|---------|-----|
| m | | dS/m | Ca | Mg | K | Na | Acidity | % |
| | | | | | | | (+)/kg | |
| 0 - 0.15 | 6.7H | 0.02C | 15K | 7 | 0.28 | 0.07 | | |
| 0.15 - 0.3 | 7.2H | 0.012C | | | | | | |
| 0.3 - 0.6 | 7.4H | 0.013C | 11K | 8 | 0.16 | 0.2 | | |
| 0.6 - 0.91 | 7.4H | 0.024C | | | | | | |
| 0.91 - 1.21 | 7.2H | 0.048C | 8K | 9 | 0.16 | 0.41 | | |
| 1.21 - 1.82 | 6.4H | 0.055C | | | | | | |
| 1.82 - 2.43 | 5.9H | 0.042C | | | | | | |
| 2.74 - 3.35 | 6.5H | 0.02C | 6K | 10 | 0.09 | 0.77 | | |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------------|-------|---------|--------|-------|--------|-------|---------|----------|-----|------|----------|------|
| m | % | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| | | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.15 | | | | | 0.12B | | | 3 | 4C | 24 | 23 | 50 |
| 0.15 - 0.3 | | | | | 0.066B | | | | 3C | 12 | 16 | 69 |
| 0.3 - 0.6 | | | | | 0.042B | | | | 2C | 8 | 15 | 75 |
| 0.6 - 0.91 | | | | | 0.025B | | | | 3C | 10 | 13 | 76 |
| 0.91 - 1.21 | | | | | 0.018B | | | | 3C | 12 | 16 | 70 |
| 1.21 - 1.82 | | | | | | | | | 4C | 17 | 15 | 67 |
| 1.82 - 2.43 | | | | | 0.012B | | | | 5C | 18 | 15 | 64 |
| 2.74 - 3.35 | | | | | 0.008B | | | 12 | 14C | 18 | 3 | 65 |

[illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|--|
| 15_NR_CA | Exch. basic cations (Ca++) - 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 |
| 2_LOI | Loss on Ignition (%) |
| 2A1 | Air-dry moisture content |
| 3A_TSS | Electrical conductivity or soluble salts - Total soluble salts % |
| 4_NR | pH of soil - Not recorded |
| 5_NR | Water soluble Chloride - Cl(%) - Not recorded |
| 7_NR | Total nitrogen (%) - Not recorded |
| P10_GRAV | Gravel (%) |
| 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 |