

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 324 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

| | |
|---|--|
| Desc. By: I. Hollingsworth | Locality: |
| Date Desc.: 09/08/91 | Elevation: 445 metres |
| Map Ref.: 1:10000 | Rainfall: No Data |
| Northing/Long.: 6158595 AMG zone: 54 | Runoff: Moderately rapid |
| Easting/Lat.: 316140 Datum: AGD66 | Drainage: Moderately well drained |

Geology

| | |
|-----------------------------------|---|
| ExposureType: Auger boring | Conf. Sub. is Parent. Mat.: No Data |
| Geol. Ref.: No Data | Substrate Material: Auger boring, 0.65 m deep, Slightly porous, Schist |

Land Form

| | |
|--|---|
| Rel/Slope Class: Undulating rises 9-30m 3-10% | Pattern Type: Rises |
| Morph. Type: Crest | Relief: No Data |
| Elem. Type: Hillcrest | Slope Category: Very gently sloped |
| Slope: 4 % | Aspect: 300 degrees |

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor or present (wind);

Soil Classification

| | |
|--|--|
| Australian Soil Classification: | Mapping Unit: N/A |
| Chromosol | Principal Profile Form: Dy4.11 |
| ASC Confidence: | Great Soil Group: Lateritic podzolic soil |
| Confidence level not specified | |

Site Disturbance:

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus obliqua

Surface Coarse Fragments: 2-10%, stony, 200-600mm, subrounded tabular, Ferricrete

Profile Morphology

| | | |
|-----|--------------|---|
| A11 | 0 - 0.1 m | Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots; |
| A12 | 0.1 - 0.15 m | Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, stratified moderately strong, Ferricrete, coarse fragments; Field pH 5.5 (Raupach, 0.12); Many, very fine (0-1mm) roots; Clear change to - |
| AB | 0.15 - 0.3 m | Brownish yellow (10YR6/6-Moist); , 0-0% ; Sandy clay loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5.5 (Raupach, 0.2); Common, very fine (0-1mm) roots; Clear change to - |
| Bt | 0.3 - 0.4 m | Yellow (10YR7/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.35); Common, very fine (0-1mm) roots; Clear change to - |
| BC1 | 0.4 - 0.5 m | Yellow (10YR7/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 5-10 mm, Prismatic; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to - |
| BC2 | 0.5 - 0.6 m | Yellow (10YR7/6-Moist); , 0-0% ; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to - |
| C | 0.6 - 0.7 m | Brownish yellow (10YR6/8-Moist); , 2-10% , Prominent; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 6 (Raupach, 0.65); |

Morphological Notes

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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 | | |
| | | | | | | Cmol (+)/kg | | | % |

| 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 | | | % | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|-------|---------|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | | |
| m | | | | | g/g - | m3/m3 | | mm/h | mm/h |

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Laboratory Analyses Completed for this profile