**Project Name:** **AS1**
**Project Code:** **AS1** **Site ID:** **NT51** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (NT)**

## Site Information

**Desc. By:** E.A. Jackson
**Date Desc.:** 03/02/59
**Map Ref.:**
**Northing/Long.:** 134.075277777778
**Easting/Lat.:** -24.4169444444445
**Locality:** CALC. SHALE OR LIMESTONE OUTCROPPING AT SURFACE: MUCH DEAD TIMBER:
**Elevation:** 457 metres
**Rainfall:** 0
**Runoff:** Moderately rapid
**Drainage:** Moderately well drained

## Geology

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

## Land Form

**Rel/Slope Class:** Undulating plains <9m 3-10%
**Morph. Type:** No Data
**Elem. Type:** Pediment
**Slope:** 0 %
**Pattern Type:** Pediment
**Relief:** 3 metres
**Slope Category:** No Data
**Aspect:** No Data

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Haplic Paralithic Hypercalcic Calcarosol
**ASC Confidence:**
Analytical data are incomplete but reasonable confidence.
**Mapping Unit:** N/A
**Principal Profile Form:** N/A
**Great Soil Group:** Red calcareous soil

## Site Disturbance:

## Vegetation:

Mid Strata - Shrub, , . *Species includes - Acacia aneura
Tall Strata - Tree, , . *Species includes - Atalaya hemiglauca

## Surface Coarse Fragments:

## Profile Morphology

| | |
|---|---|
| 0 - 0.09 m | Reddish brown (5YR5/4-Moist); ; Loam; Weak grade of structure, Platy; , Angular blocky; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Sharp change to - |
| 0.09 - 0.15 m | Reddish brown (5YR5/4-Moist); ; Loam; Weak grade of structure, 20-50 mm, Angular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Diffuse change to - |
| 0.15 - 0.27 m | Light reddish brown (5YR6/4-Moist); ; Clay loam; Weak grade of structure, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Diffuse change to - |
| 0.27 - 0.37 m | Light reddish brown (5YR6/4-Moist); ; Clay loam; 5-10 mm, Angular blocky; Very firm consistence; 10-20%, stony, 200-600mm, Gravel, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Diffuse change to - |
| 0.37 - 0.51 m | ; Clay loam; Many (20 - 50 %), Calcareous, , Soft segregations; |

## Morphological Notes

## Observation Notes

## Site Notes

ALICE SPRINGS

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.09 | 9.1H | 0.029C | | | | | | | | |
| 0.09 - 0.15 | 9.1H | 0.031C | | | | | | | | |
| 0.15 - 0.27 | 9.1H | 0.029C | | | | | | | | |
| 0.27 - 0.37 | 9.1H | 0.03C | 2K | 0.6 | 0.21 | 0.6 | | | | |
| 0.37 - 0.51 | 9H | 0.033C | | | | | | | | |

| 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 - 0.09 | 7.8C | 0.48E | | 0.025F | 0.055B | 0.51B | | 2 | 11C | 58 | 8 | 14 |
| 0.09 - 0.15 | 12C | | | | | | | 2 | 9C | 51 | 7 | 17 |
| 0.15 - 0.27 | 20C | | | | | | | 5 | 7C | 46 | 7 | 17 |
| 0.27 - 0.37 | 33C | | | | | | | | | | | |
| 0.37 - 0.51 | 31C | | | 0.015F | | 0.69B | | | | | | |

| 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 - 0.09 | | | | | | | | | |
| 0.09 - 0.15 | | | | | | | | | |
| 0.15 - 0.27 | | | | | | | | | |
| 0.27 - 0.37 | | | | | | | | | |
| 0.37 - 0.51 | | | | | | | | | |

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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 |
| 17A_NR | Total element - K(%) - Not recorded |
| 19B_NR | Calcium Carbonate (CaCO3) - 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 recordede |
| 6Z | Organic carbon (%) - Not recorded |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9A_NR | Total element - P(%) - 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 |