**Project Name:** **Soils of the MonartoTown Site**
**Project Code:** **Monarto** **Site ID:** **A1176** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (SA)**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | Malcolm J. Wright | **Locality:** | |
| **Date Desc.:** | 21/11/75 | **Elevation:** | No Data |
| **Map Ref.:** | 1:50000 | **Rainfall:** | No Data |
| **Northing/Long.:** | 6108020 AMG zone: 54 | **Runoff:** | No Data |
| **Easting/Lat.:** | 330120 Datum: AGD66 | **Drainage:** | No Data |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Soil pit | **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):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
N/A
**ASC Confidence:**
Confidence level not specified

**Mapping Unit:** N/A
**Principal Profile Form:** Ug3.2
**Great Soil Group:** N/A

## Site Disturbance:

## Vegetation:

## Surface Coarse Fragments:

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.1 m | Dark grey (5YR4/1-Moist); ; Sandy clay; Massive grade of structure; Loose consistence; Few (2 - 10 %), Calcareous, , ; Field pH 9.5 (Raupach); Clear change to - |
| A2 | 0.1 - 0.31 m | Light grey (5Y7/2-Moist); , 10YR42; Sandy clay; Weak grade of structure, Prismatic; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , ; Field pH 9.5 (Raupach); Gradual change to - |
| C1 | 0.31 - 0.5 m | Greyish brown (10YR5/2-Moist); , 10YR66, 0-2% ; Sandy clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong consistence; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach); Diffuse change to - |
| C2 | 0.5 - 0.9 m | Brownish yellow (10YR6/6-Moist); , 10YR52; Sandy clay; Strong grade of structure, 50-100 mm, Angular blocky; Strong consistence; Few (2 - 10 %), Calcareous, , ; Field pH 8.5 (Raupach); Diffuse change to - |
| C3 | 0.9 - 2 m | Yellowish brown (10YR5/4-Moist); , 2.5Y62; Sandy clay; 100-200 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , ; Field pH 9 (Raupach); |

## Morphological Notes

| | | |
|---|---|---|
| A1 | SC texture is uncertain. | |
| A2 | SC texture is uncertain. | Sporadic bleach. |
| C1 | SC texture is uncertain. | |
| C2 | SC texture is uncertain. | Strongly cracked. |
| C3 | SC texture is uncertain. | Strongly cracked. |

## Observation Notes

## Site Notes

**Project Name:** Soils of the MonartoTown Site
**Project Code:** Monarto **Site ID:** A1176 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (SA)

## 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 - 0.1 | 8.7A | 0.14A | 16.3K | 4 | 1.9 | 0.44 | | 23J | | 1.91 |
| 0.1 - 0.31 | 8.8A | 0.14A | | | | | | | | |
| 0.31 - 0.5 | 9.1A | 0.37A | 11.1K | 6.4 | 1 | 2.7 | | 21J | | 12.86 |
| 0.5 - 0.9 | 9.1A | 0.82A | 7.5K | 6.5 | 0.95 | 4.3 | | 19J | | 22.63 |
| 0.9 - 2 | 9.1A | 0.73A | 5.8K | 6.7 | 0.99 | 6.9 | | 19J | | 36.32 |

| 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 - 0.1 | 8.2C | | | | | | | | 4I | 28 | 4 | 28 |
| 0.1 - 0.31 | | | | | | | | | | | | |
| 0.31 - 0.5 | 13C | | | | | | | | 2I | 16 | 2 | 40 |
| 0.5 - 0.9 | 5.2C | | | | | | | | 2I | 21 | 2 | 36 |
| 0.9 - 2 | 4C | | | | | | | | 2I | 20 | 2 | 41 |

| 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 - 0.1 | | | | | | | | | | |
| 0.1 - 0.31 | | | | | | | | | | |
| 0.31 - 0.5 | | | | | | | | | | |
| 0.5 - 0.9 | | | | | | | | | | |
| 0.9 - 2 | | | | | | | | | | |

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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_CEC | CEC - 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 |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 2_LOI | Loss on Ignition (%) |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5_NR | Water soluble Chloride - Cl(%) - Not recordede |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_FS | Fine sand (%) - Not recorded |
| P10_NR_S | Sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |