

**Project Name:** Soils of the MonartoTown Site  
**Project Code:** Monarto **Site ID:** A1167 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b> Malcolm J. Wright	<b>Locality:</b>
<b>Date Desc.:</b> 25/11/75	<b>Elevation:</b> No Data
<b>Map Ref.:</b> 1:50000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6115870 AMG zone: 54	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 324720 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

<b>ExposureType:</b> Soil pit	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillslope	<b>Slope Category:</b> No Data
<b>Slope:</b> %	<b>Aspect:</b> No Data

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> Dr2.13
	<b>Great Soil Group:</b> N/A

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.09 m	Dark reddish brown (5YR3/4-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Field pH 6.5 (Raupach); Sharp change to -
B2	0.09 - 0.21 m	Dark reddish brown (5YR3/3-Moist); ; Medium clay; , Angular blocky; , Prismatic; Dry; Very firm consistence; 2-10%, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (Raupach); Clear change to -
B2k	0.21 - 0.31 m	Dark reddish brown (5YR3/3-Moist); , 7.5YR64; Light clay; Weak grade of structure, Angular blocky; Very firm consistence; 0-2%, Schist, coarse fragments; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach); Diffuse change to -
B2k	0.31 - 0.41 m	Very pale brown (10YR7/3-Moist); , 5YR33; Silty clay loam; Massive grade of structure; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Schist, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9 (Raupach); Clear change to -
C	0.41 - 0.6 m	Very pale brown (10YR7/3-Moist); ; Sandy loam; Massive grade of structure; Strong consistence; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach);
R	0.6 - 0.8 m	Rock

#### Morphological Notes

A1	Weak sporadic bleaching at the base.
B2k	Structured clay as above in carbaonate matrix.
B2k	Mainly soft lime with pockets of clay as above. Carbonate is micaceous.
C	Mainly weathering schist with lime interfingering.
R	Mainly weathering schist with less lime.

#### Observation Notes

#### Site Notes

Grazing.

**Observation ID: 1**

**Laboratory Test Results:**

[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_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 recorded
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