

**Project Name:** Soils of the MonartoTown Site  
**Project Code:** Monarto **Site ID:** A1169 **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>	21/11/75	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6111730 AMG zone: 54	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	329420 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>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**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>	Gc2.21
		<b>Great Soil Group:</b>	N/A

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Massive grade of structure; Very firm consistence; Field pH 8 (Raupach); Sharp change to -
0.1 - 0.15 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Moderate grade of structure, 50-100 mm, Angular blocky; Very firm consistence; Field pH 8.5 (Raupach); Clear change to -
0.15 - 0.22 m	Dark reddish brown (2.5YR3/4-Moist); , 5YR32; Sandy clay loam; Moderate grade of structure, 50-100 mm, Angular blocky; Very firm consistence; Field pH 8.5 (Raupach);
0.22 - 0.35 m	Dark reddish brown (2.5YR3/4-Moist); , 5YR32; Sandy medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach); Sharp change to -
0.35 - 0.39 m	Dark reddish brown (2.5YR3/4-Moist); , 5YR32; Sandy medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Very firm consistence; Common (10 - 20 %), Calcareous, , ; Field pH 8.5 (Raupach); Sharp change to -
0.39 - 0.49 m	Brown (7.5YR4/4-Moist); , 7.5YR66; Sandy loam; Massive grade of structure; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9 (Raupach); Clear change to -
0.49 - 0.59 m	Pinkish yellow (7.5YR8/2-Moist); , 7.5YR66; Sandy clay loam; , Platy; Very firm consistence; Field pH 9 (Raupach);
0.59 - 0.75 m	Pale yellow (2.5Y7/4-Moist); , 7.5YR56; , 10YR81; Sandy clay loam; Weak grade of structure, Platy; Very firm consistence; , Calcareous, , Soft segregations; Field pH 8.5 (Raupach);
0.75 - 0.95 m	Strong brown (7.5YR5/6-Moist); , 5Y53; , 10YR81; Sandy clay loam; Massive grade of structure; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.5 (Raupach); Diffuse
0.95 - 1.2 m	Strong brown (7.5YR5/6-Moist); , 5Y53; , 10YR81; Sandy loam; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (Raupach); Clear change to -
1.2 - 1.5 m	Strong brown (7.5YR5/6-Moist); , 5Y53; , 10YR81; Loamy sand; Massive grade of structure; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (Raupach); Clear change to -

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1.5 - 1.6 m	Red (2.5YR4/8-Moist); , 10YR68; , 10YR81; Clayey sand; Massive grade of structure; Very firm consistence; 0-2%, rounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9 (Raupach); Sharp change to -
1.6 - 1.8 m	Yellowish red (5YR5/8-Moist); , 5YR46; , 10YR81; Fine sandy loam; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Diffuse
1.8 - 2 m	Strong brown (7.5YR5/8-Moist); ; Fine sandy loam; Massive grade of structure; Loose consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Clear change to -
2 - 2.15 m	Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Very firm consistence; , Calcareous, , Soft segregations; Clear change to -
2.15 - 2.5 m	; Very firm consistence; , Calcareous, , Soft segregations;

#### **Morphological Notes**

Much semi-hard and smaller amounts of soft carbonate in grey brown matrix. Much worm activity.  
 Mainly hard somewhat platy carbonate with parilla sand.  
 Carbonate input in Parilla sand.  
 Sand becomes yellower. Pockets of carbonate persist.  
 Sand becomes redder with occassional grey mottles. Sand is coarser and well graded.  
 Parilla sand containing weathered meta siltstone. The type of gravel is questioned, but thought to be SI (silcrete).  
 Weathered meta siltstone fragments. Stone layer of round quartz at bottom. The type of gravel is questioned, but thought to be SI (silcrete).  
 Grey weathered in situ meta siltstone.

#### **Observation Notes**

##### **Site Notes**

Ex cereal and grazing. Cultivation paddock.

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1.2 - 1.5  
1.5 - 1.6  
1.6 - 1.8  
1.8 - 2  
2 - 2.15  
2.15 - 2.5

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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