

Project Name: Soils of the MonartoTown Site
Project Code: Monarto **Site ID:** A1173 **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.:	6110720 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	326790 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	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gc1.11
		Great Soil Group:	N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam; Weak grade of structure; Very weak consistence; Few (2 - 10 %), Calcareous, , ; Field pH 8 (Raupach); Clear change to -
0.08 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Sandy clay; Moderate grade of structure, Angular blocky; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , ; Field pH 8.5 (Raupach); Gradual change to -
0.15 - 0.3 m	Yellowish red (5YR5/6-Moist); , 10YR82; Sandy clay; Massive grade of structure; Firm consistence; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach);
0.3 - 0.41 m	Reddish yellow (7.5YR6/6-Moist); ; Clay loam; Massive grade of structure; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9 (Raupach); Clear change to -
0.41 - 0.55 m	Reddish yellow (7.5YR6/6-Moist); , 10YR82; Clay loam; , Platy; Firm consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9 (Raupach);
0.55 - 0.66 m	Pink (7.5YR7/4-Moist); , 5YR56; Clay loam; , Platy; Firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 9 (Raupach); Clear change to -
0.66 - 0.8 m	Pink (7.5YR7/4-Moist); , 5YR46; Sandy clay loam; Massive grade of structure; Firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9 (Raupach);
0.8 - 1 m	Yellowish red (5YR4/6-Moist); , 10YR53; , 10YR84; Sandy clay; Massive grade of structure; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
1 - 1.16 m	Yellowish red (5YR4/6-Moist); , 10YR53; , 10YR84; Sandy clay; Massive grade of structure, Prismatic; Moderate grade of structure, Angular blocky; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
1.16 - 1.3 m	Yellowish red (5YR4/6-Moist); , 10YR53; , 10YR84; Sandy clay; , Angular blocky; Strong grade of structure, Prismatic; Very firm consistence; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
1.3 - 1.5 m	Brown (7.5YR5/4-Moist); , 10YR54; Sandy clay; , Angular blocky; Strong grade of structure, Prismatic; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , ; Field pH 9 (Raupach); Gradual change to

Project Name: Soils of the MonartoTown Site
Project Code: Monarto **Site ID:** A1173 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

1.5 - 1.7 m	Brown (7.5YR5/4-Moist); , 10YR54; Sandy clay; , Angular blocky; Strong grade of structure, Prismatic; Very strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 8.5 (Raupach); Gradual change to -
1.7 - 2 m	Brown (7.5YR5/4-Moist); , 10YR54; Sandy clay; Strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 7.5 (Raupach); Clear change to -
2 - 2.3 m	Brown (7.5YR5/4-Moist); , 10YR54; Sandy clay; Strong consistence; Field pH 6.5 (Raupach);

Morphological Notes

Highly vesicular. SC texture is uncertain.
Highly porous. Carbonate nodules. SC texture is uncertain.
Highly porous. Carbonate nodules.
Increased amounts of Blanchetown clay in carbonate matrix, clay and lime more intimately mixed.
SC texture is uncertain.
SC texture is uncertain.
Mainly Blanchetown clay with occasional lime pockets persisting. SC texture is
Mainly Blanchetown clay with occasional lime pockets persisting. SC texture is
SC texture is uncertain.
SC texture is uncertain.
SC texture is uncertain.

Observation Notes

Site Notes

Observation ID: 1

Laboratory Test Results:

[illegible]

Project Name: Soils of the MonartoTown Site
Project Code: Monarto **Site ID:** A1173
Agency Name: CSIRO Division of Soils (SA)

Observation ID: 1

Project Name: Soils of the MonartoTown Site
Project Code: Monarto **Site ID:** A1173 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

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