

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1256 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	01/11/88	Elevation:	No Data
Map Ref.:	Sheet No. : 6629-18 1:10000	Rainfall:	No Data
Northing/Long.:	6216800 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289090 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	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:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.07 m	Dusky red (2.5YR3/2-Moist); , 0-0% ; Sandy clay loam, fine sandy; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Clear change to -
B21	0.07 - 0.1 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);
B21	0.1 - 0.2 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Gradual change to -
B22	0.2 - 0.33 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach);
B22	0.33 - 0.37 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Abrupt change to -
B3	0.37 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (Raupach);
B3	0.4 - 0.42 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium clay; Smooth-ped fabric; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (Raupach); Sharp change to -
C	0.42 - 0.9 m	, 0-0% ; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;

Morphological Notes

A1	A shallow duplex red-brown earth. Reasonably neutral SRT.
B21	The Woolshed F Shale has weathered to a fine pinky/cream to grey soft material - The upper 30cm of the C is nearly all carbonate, but the solum has only a minor quantity of carbonate in the B3.

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B21 Is all the carbonate from the WFS weathering in situ - Are there carbonaceous bands of carbonate in the shale (contrast with site A1255).
B3 The dark B is very finely structured but has a moderate to low sorptivity. It does not visibly swell when wetted.
C The C is a cream/yellow colour.

Observation Notes

Site Notes

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Laboratory Test Results:

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Laboratory Analyses Completed for this profile