

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1267 **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.:	6216860 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	290210 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

A11	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; Field pH 6.5 (Raupach); Clear change to -
A21	0.1 - 0.2 m	Reddish brown (5YR5/4-Moist); Pink (5YR7/3-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Clear change to -
A22	0.2 - 0.3 m	Light reddish brown (2.5YR6/4-Moist); , 2.5YR74, 20-50% , 30-mm, Distinct; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very strong consistence; Field pH 7 (Raupach); Clear change to -
A3	0.3 - 0.4 m	Red (2.5YR5/6-Moist); , 2.5YR54, 20-50% , 30-mm, Distinct; Clay loam, fine sandy; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to -
B2	0.4 - 0.46 m	Red (2.5YR4/6-Moist); , 2.5YR44, 20-50% , 30-mm, Faint; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Sharp change to -
C1	0.46 - 0.7 m	Light reddish brown (2.5YR7/3-Moist); , 2.5YR46; Field pH 8.5 (Raupach);
C2	0.7 - 0.88 m	; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);
C3	0.88 - 1.4 m	; Many (20 - 50 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);

Morphological Notes

A11	A strange soil: The A1, A2 and A3 appear to be transportational and the A3 (B!?) is weakly cemented and has gravel .
A21	The A2 appears to become quite wet.
A3	The lithology of the coarse fragments is as per surface gravels, except rounded - Fe rich.
B2	The thin B2 is a heavy red tough neutral clay.
C1	Like A1268, the C is very weathered and has some remnant rock fabric. Some of the lower white layers have a lot of carbonate. The C is very soft and thick. The mottling appears down the crack.

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Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC		Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%
0 - 0.1	5.4C 5.93A	0.12A						
0.1 - 0.2								
0.2 - 0.3	5.74C 6.28A	0.06A						
0.3 - 0.4	5.65C 6.3A	0.06A						
0.4 - 0.46	5.67C 6.29A	0.07A						
0.46 - 0.7								
0.7 - 0.88								
0.88 - 1.4								

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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour