

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1266 **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.:	6217000 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	290040 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 - 0.05 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Platy; Rough-ped fabric; Dry; Firm consistence; Field pH 6.5 (Raupach); Clear change to -
A12	0.05 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; Field pH 6 (Raupach); Clear change to -
A2	0.1 - 0.2 m	Reddish brown (2.5YR4/4-Moist); Pink (5YR7/4-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Strong consistence; Field pH 7.5 (Raupach); Abrupt change to -
B21	0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; 2.5YR44, 20-50% , 30-mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8 (Raupach); Clear change to -
B22	0.3 - 0.4 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8.5 (Raupach); Clear change to -
B23	0.4 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 8.5 (Raupach); Abrupt change to -
B3	0.5 - 0.6 m	Red (2.5YR4/6-Moist); ; 2.5YR44, 20-50% , 30-mm, Prominent; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular platy, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , , , Nodules; Field pH 9 (Raupach);
B3	0.6 - 0.7 m	Red (2.5YR4/6-Moist); ; 2.5YR44, 20-50% , 30-mm, Prominent; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; , , , Nodules; Field pH 9 (Raupach); Clear change to -
BC	0.7 - 0.75 m	; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , , , Nodules; Clear change to -

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R 0.75 - m Rock

Morphological Notes

A11 A straight forward red duplex (RBE) on Woolshed Flat Shale. The A1 has been cultivated and collapsed, hence the platy structure.

A2 Evidence of worm activity in the A2. (Question over whether it is an A2).

B21 The B2 clay has moderate sorptivity and swells slightly on wetting. The mottle is in the form of coatings.

B3 In the B3 the mottle, has white carbonate.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		Ca	Mg	K	Na	Acidity			
m		dS/m				Cmol (+)/kg			%

0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.75
0.75 -

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.75
0.75 -

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m			g/g - m3/m3					mm/h	mm/h	

0 - 0.05
0.05 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.75
0.75 -

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Laboratory Analyses Completed for this profile