Project Name: **Rhynie Soil Survey**
Project Code: **Rhynie** **Site ID:** **A1280** **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.:	6216440 AMG zone: 54	**Runoff:**	No Data
Easting/Lat.:	289960 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:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); Yellowish red (5YR5/6-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
B1	0.1 - 0.15 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.15 - 0.4 m	Red (2.5YR4/6-Moist); , 5YR44, 20-50% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); , very fine (0-1mm) roots; Gradual change to -
B22	0.4 - 0.7 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -
B3	0.7 - 1.2 m	Yellowish red (5YR4/6-Moist); , 5YR56, 20-50% , 15-30mm, Distinct; Heavy clay; Weak grade of structure; 2-10%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 9 (Raupach); Diffuse change to -
C	1.2 - 1.6 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; 20-50%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -
R	1.6 - m	Rock

Morphological Notes

A1	Double carbonate maximum.
B1	Moderate to low sorptive clay in the top of the B.
B21	Mottles in form of coatings.
B3	The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours.
C	Colour 5yr4/6 + grey + white.
R	Grey shale.

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 - 0.1										
0.1 - 0.15										
0.15 - 0.4										
0.4 - 0.7										
0.7 - 1.2										
1.2 - 1.6										
1.6 -										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.1 - 0.15												
0.15 - 0.4												
0.4 - 0.7												
0.7 - 1.2												
1.2 - 1.6												
1.6 -												

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 - 0.1										
0.1 - 0.15										
0.15 - 0.4										
0.4 - 0.7										
0.7 - 1.2										
1.2 - 1.6										
1.6 -										

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Laboratory Analyses Completed for this profile