

**Project Name:** Rhynie Soil Survey  
**Project Code:** Rhynie **Site ID:** A1260 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b> N.J. McKenzie	<b>Locality:</b>
<b>Date Desc.:</b> 01/11/88	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 6629-18 1:10000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6217100 AMG zone: 54	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 289690 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

<b>ExposureType:</b> Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> No Data	<b>Slope Category:</b> No Data
<b>Slope:</b> %	<b>Aspect:</b> No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> N/A
	<b>Great Soil Group:</b> N/A

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Clear change to -
A12	0.1 - 0.2 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Sandy clay loam, fine sandy; Massive grade of structure; Rough-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach);
A12	0.2 - 0.27 m	Dark reddish brown (2.5YR3/3-Moist); , 0-0% ; Clay loam, fine sandy; Massive grade of structure; Rough-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Abrupt change to -
B21	0.27 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach);
B21	0.3 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach); Clear change to -
B22	0.4 - 0.5 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach);
B22	0.5 - 0.6 m	Reddish brown (2.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach); Clear change to -
B23	0.6 - 0.7 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Clear change to -
C	0.7 - m	, 0-0% ; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;

#### Morphological Notes

A11	A duplex non-calcic brown. Moderately thick A1.
A12	Evidence of worm activity in the A12
B21	High sorptivity in the B2. Absorbs water quickly and swells. Relatively non-sticky before manipulation. Strong red B.

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C      Neutral SRT and no carbonate except for some minor bands in the PM. This is a C/R horizon.

**Observation 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	Acidity		%
						Cmol (+)/kg			

0 - 0.1  
0.1 - 0.2  
0.2 - 0.27  
0.27 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 - 0.6  
0.6 - 0.7  
0.7 -

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 - 0.1  
0.1 - 0.2  
0.2 - 0.27  
0.27 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 - 0.6  
0.6 - 0.7  
0.7 -

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 - 0.2  
0.2 - 0.27  
0.27 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 - 0.6  
0.6 - 0.7  
0.7 -

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Laboratory Analyses Completed for this profile