

**Project Name:** Rhynie Soil Survey  
**Project Code:** Rhynie **Site ID:** A1271 **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>	6216760 AMG zone: 54	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	290340 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**

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Strong consistence; Field pH 7 (Raupach); Abrupt change to -
B21	0.1 - 0.2 m	Dusky red (10R3/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach); Clear change to -
B22	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; 2.5YR34, 20-50% , 30-mm, Faint; Medium clay; 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach);
B22	0.3 - 0.4 m	Dark red (2.5YR3/6-Moist); ; 2.5YR34, 20-50% , 30-mm, Faint; Medium clay; 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach); Abrupt change to -
B3	0.4 - 0.47 m	Dark red (2.5YR3/6-Moist); ; 2.5YR34, 20-50% , 30-mm, Faint; Medium clay; 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8 (Raupach); Abrupt change to -
C	0.47 - 0.5 m	Pink (7.5YR8/4-Moist); ; Dry; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;
C	0.5 - 0.7 m	; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;

**Morphological Notes**

A1	Very nice profile - high sorptivity, red B horizon. Shallow and tough A1 - heavily cultivated? Neutral to alkaline SRT. The clays are easy to manipulate, swell instantly and have a marked heat of wetting.
B21	Clay content increases from B21 to B23 (slipperiness increases) although resistance to shearing stays the same. B mottles are coatings.
C	Pale carbonate.
C	Sharp break to the high carbonate C which develops rock fabric at approximately 70cm.

**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 Cmol (+)/kg	Acidity	%
0 - 0.1	5.8C 6.38A	0.11A						
0.1 - 0.2	5.91C 6.53A	0.08A						
0.2 - 0.3	6.17C 6.87A	0.08A						
0.3 - 0.4	6.81C 7.32A	0.1A						
0.4 - 0.47	7.69C 8.08A	0.21A						
0.47 - 0.5								
0.5 - 0.7								

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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