

**Project Name:** Rhynie Soil Survey  
**Project Code:** Rhynie **Site ID:** A1257 **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>	6216990 AMG zone: 54	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	289230 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>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR2/2-Moist); ; Sandy clay loam, fine sandy; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular tabular, dispersed, Shale, coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -
A12	0.1 - 0.2 m	Very dark brown (7.5YR2/3-Moist); Reddish brown (5YR4/3-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm consistence; 50-90%, coarse gravelly, 20-60mm, subrounded tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Abrupt change to -
B21	0.2 - 0.3 m	Dark reddish brown (5YR3/2-Moist); , 5YR46, 10-20% , 15-30mm, Distinct; Medium heavy 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 8 (Raupach); Clear change to -
B22	0.3 - 0.4 m	Weak red (2.5YR4/2-Moist); , 2.5YR44, 10-20% , 15-30mm, Faint; Medium heavy 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 8.5 (Raupach); Clear change to -
B31	0.4 - 0.5 m	Weak red (2.5YR4/2-Moist); , 2.5YR44, 10-20% , 15-30mm, Faint; Medium heavy 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; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , , , Nodules; Field pH 8.5 (Raupach);
B31	0.5 - 0.7 m	Weak red (2.5YR4/2-Moist); , 2.5YR44, 10-20% , 15-30mm, Faint; Medium heavy 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; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , , , Nodules; Field pH 8.5 (Raupach); Gradual change to -
B32	0.7 - 0.9 m	Dusky red (2.5YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Field pH 8.5 (Raupach);
B32	0.9 - 1.1 m	Dusky red (2.5YR3/2-Moist); ; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Field pH 8.5 (Raupach); Diffuse change to -

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BC      1.1 - 1.3 m      ; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;  
BC      1.3 - 1.4 m      ; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations;

**Morphological Notes**

A11      The A1 appears to be transportational with its fresh WFS coarse fragments. Very fine structure throughout.  
A12      The A12 looks to be slightly more pale (some water logging?).  
B21      The clay of the B2 has a low sorptivity but is reasonably easy to texture. It is dark and does not swell visibly when water is added.  
B31      The carbonate content of the B3 and BC is very high - fine segregations. Mottling appears to be due to coatings and bioturbation. Carbonate is white, B is dark.

**Observation Notes**

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile