

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1250 **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.:	6216540 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289500 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	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	N/A
		Great Soil Group:	N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/3-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Dry; Very few (0 - 2 %), Calcareous, , ; Field pH 8.5 (Raupach); Clear change to -
B21	0.1 - 0.2 m	Yellowish red (5YR4/8-Moist); , 7.5YR33, 20-50% , 30-mm, Prominent; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, , ; Field pH 8.5 (Raupach);
B21	0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); , 7.5YR33, 20-50% , 30-mm, Prominent; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, , ; Field pH 8.5 (Raupach); Gradual change to -
B22	0.3 - 0.4 m	Yellowish red (5YR4/8-Moist); , 7.5YR33, 20-50% , 30-mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach);
B22	0.4 - 0.5 m	Yellowish red (5YR4/8-Moist); , 7.5YR33, 20-50% , 30-mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Common (10 - 20 %), Calcareous, , ; Field pH 9 (Raupach); Gradual change to -
B3	0.5 - 0.7 m	Strong brown (7.5YR5/6-Moist); , 7.5YR33, 10-20% , 15-30mm, Prominent; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
B3	0.7 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 7.5YR33, 10-20% , 15-30mm, Prominent; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach); Gradual change to -
B41	0.9 - 1.2 m	Reddish yellow (7.5YR7/6-Moist); , 5YR56, 10-20% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
B41	1.2 - 1.4 m	Reddish yellow (7.5YR7/6-Moist); , 5YR56, 10-20% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach); Clear change to -

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B42	1.4 - 1.7 m	Reddish yellow (7.5YR7/6-Moist); , 5YR56, 20-50% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach);
B42	1.7 - 1.9 m	Light yellowish brown (10YR6/4-Moist); , 5YR46, 10-20% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach); Clear change to -
B43	1.9 - 2.1 m	Yellowish brown (10YR5/6-Moist); , 2.5YR48, 10-20% , 15-30mm, Prominent; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Common (10 - 20 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Few (2 - 10 %), Calcareous, , ; Field pH 9 (Raupach); Abrupt change to -
B5	2.1 - 2.2 m	Yellowish brown (10YR5/6-Moist); , 2.5YR48, 20-50% , 30-mm, Prominent; Medium clay; Massive grade of structure; Rough-ped fabric; Dry; Many (20 - 50 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; Field pH 8.5 (Raupach); Abrupt change to -
B61	2.2 - 2.45 m	Brownish yellow (10YR6/6-Moist); , 5YR66, 10-20% , 15-30mm, Faint; Sandy clay loam; Massive grade of structure; Rough-ped fabric; Dry; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), , Many (20 - 50 %), Calcareous, , ; Field pH 9 (Raupach); Gradual change to -
B62	2.45 - 2.6 m	Very pale brown (10YR7/4-Moist); , Sandy clay loam; Massive grade of structure; Rough-ped fabric; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), , Many (20 - 50 %), Calcareous, , ;

Morphological Notes

A1	A curious profile. Appears vertic - clear granular structure in the A1. The A1 and red B2 absorb and swell easily. The carbonate profile is noteable - carbonate to the surface and absent from the second lowest layer.
B21	The sorptive clay is close to being subplastic.
B3	The more drab 7.5YR material beneath is tough and slimey - sodic? (rough ped,
B41	Iron coatings present in the mottles.
B42	White carbonate present.
B43	White carbonate present.
B5	The B5 is nearly all Fe, Mn nodules. Indication of rising and falling water table in B42 to B6. White carbonate present.
B61	The bottom layers (B6) appears to have a different parent material. There is some gravel and the medium - fine sand content is much higher than layers above. It feels to be indurated and was very difficult to wet (may only have 20% clay).
B62	White carbonate present.

Observation Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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2.1 - 2.2
2.2 - 2.45
2.45 - 2.6

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Laboratory Analyses Completed for this profile