

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1253 **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.:	6216580 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289280 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:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR2/4-Moist); ; Loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; Field pH 6.5 (Raupach);
A12	0.1 - 0.2 m	Dark reddish brown (5YR2/4-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Strong consistence; Field pH 6.5 (Raupach);
A12	0.2 - 0.3 m	Dark reddish brown (5YR2/4-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Strong consistence; Field pH 6.5 (Raupach); Gradual change to -
A2	0.3 - 0.4 m	Red (2.5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Sandy clay loam, fine sandy; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Field pH 7 (Raupach);
A2	0.4 - 0.45 m	Red (2.5YR4/6-Moist); Yellowish red (5YR5/6-Moist); ; Sandy clay loam, fine sandy; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; Field pH 7 (Raupach); Abrupt change to -
B21	0.45 - 0.5 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Strong grade of structure, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach);
B21	0.5 - 0.6 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Strong 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 7.5 (Raupach); Clear change to -
B22	0.6 - 0.7 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Clear change to -
B31	0.7 - 0.9 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8 (Raupach); Clear change to -
B31	0.9 - 1.1 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8 (Raupach);

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B32	1.1 - 1.3 m	Yellowish red (5YR4/6-Moist); , 10YR62, 10-20% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (Raupach);
B32	1.3 - 1.4 m	Yellowish red (5YR4/6-Moist); , 10YR62, 20-50% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (Raupach); Clear change to -
C	1.4 - 1.6 m	; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Dry; Strong consistence; Field pH 8.5 (Raupach);

Morphological Notes

A11	A relatively thick A horizon with a weak A2.
A12	The A12/A2 is dilatant - very small water content between plastic and liquid limit.
B21	The B2 does not appear to absorb water readily - Moderate sorptivity (dark red).
B31	The B3 shows weak mottling (relict?) with an abundance of fine carbonate - the carbonate is in soft segregations unlike previous profile. White carbonates present.
B31	White carbonate present.
C	The very top of the C has no carbonate, pressure drill rig was on to the unweathered (carbonate free) shale.

Observation Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile