

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1242 **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.:	6216920 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289520 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 brown (7.5YR3/3-Moist); ; Loamy fine sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded platy, undisturbed, Shale, coarse fragments; Field pH 6.5 (Raupach); Clear, Smooth change to -
A12	0.1 - 0.2 m	Black (5YR2/1-Moist); ; Sandy clay loam, fine sandy; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 6.5 (Raupach); Gradual, Smooth change to -
A3	0.2 - 0.3 m	Dusky red (2.5YR3/2-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded platy, undisturbed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7 (Raupach); Gradual, Smooth change to -
B21	0.3 - 0.4 m	Dark reddish brown (2.5YR3/3-Moist); , 2.5YR32, 10-20% , 15-30mm, Faint; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);
B21	0.4 - 0.48 m	Dark reddish brown (2.5YR3/3-Moist); , 2.5YR32, 10-20% , 15-30mm, Faint; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Abrupt, Smooth change to -
B22	0.48 - 0.5 m	Dusky red (2.5YR3/2-Moist); , 2.5YR34, 20-50% , 15-30mm, Distinct; 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);
B22	0.5 - 0.56 m	Dusky red (2.5YR3/2-Moist); , 2.5YR34, 20-50% , 15-30mm, Distinct; 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); Abrupt, Smooth change to -
B3k	0.56 - 0.7 m	Red (2.5YR5/7-Moist); , 2.5YR52, 20-50% , 5-15mm, Prominent; , 5YR66; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8.5 (Raupach); Abrupt, Smooth change to -
C	0.7 - 1.3 m	;

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A11 A reasonably straight forward 70cm RBE, except for the darkness of the B2 - the clay does not sorb strongly (slow to wet). The A horizon gradually increases in the percentage of clay.

B3k The carbonate profile is noticeable for the very sharp boundary and abundant quantity in the B3.

C The Woolshed Flat Shale is weathered to approximately 120-130cm, where it becomes an R horizon. The C horizon is characterised by white carbonate bands and grey argillaceous weathered shale. The C horizon depth is >130cm.

Observation Notes

Site Notes

Morphological Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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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