

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1254 **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.:	6216610 AMG zone: 54	Runoff:	No Data
Easting/Lat.:	289150 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 (5YR3/3-Moist); ; Fine sandy loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; Field pH 6 (Raupach); Clear change to
A12	0.1 - 0.2 m	Reddish brown (5YR5/4-Moist); Light reddish brown (5YR6/4-Dry); ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subangular tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Abrupt change to -
B21	0.2 - 0.3 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach);
B21	0.3 - 0.4 m	Reddish brown (2.5YR4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Clear change to -
B22	0.4 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach); Clear change to -
B3k	0.5 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Strong consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (Raupach);
B3k	0.6 - 0.7 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Field pH 8.5 (Raupach);
B3	0.7 - 0.8 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Field pH 8.5 (Raupach);
B3k	0.8 - 0.9 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Many (20 - 50 %), Calcareous, Extremely coarse (> 60 mm), Soft segregations; Field pH 8.5 (Raupach); Gradual change to -
C	0.9 - 1 m	; Field pH 8.5 (Raupach);

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A11 Similar to other upslope profiles. A1 has evidence of worm activity. Thin A1/A2.
A12 The A2 has a fair amount of partly weathered coarse fragments - transportational?
B21 The B2 is very pedal and very tough - very low sorptivity and hard to texture.
B3k The B3 has a predominance of fine white carbonates(70%?).

Observation Notes

Site Notes

Morphological 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	Acidity		%
						Cmol (+)/kg			

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1

[illegible]

0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1

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Laboratory Analyses Completed for this profile