

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1264 **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.: 6217150 AMG zone: 54	Runoff: No Data
Easting/Lat.: 289950 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

A11	0 - 0.1 m	Dark brown (7.5YR3/4-Moist); ; Loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded tabular, dispersed, Shale, coarse fragments; Field pH 5.5 (Raupach);
A12	0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; 20-50%, coarse gravelly, 20-60mm, subrounded tabular, stratified, Shale, coarse fragments; Field pH 6 (Raupach); Clear change to -
A12	0.2 - 0.3 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam, fine sandy; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 50-90%, coarse gravelly, 20-60mm, subrounded tabular, stratified, Shale, coarse fragments; Field pH 6.5 (Raupach); Abrupt change to -
B1	0.3 - 0.4 m	Brown (7.5YR4/2-Moist); ; 2.5YR36, 20-50% , 15-30mm, Prominent; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 50-90%, coarse gravelly, 20-60mm, subrounded tabular, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Clear change to -
B21	0.4 - 0.5 m	Yellowish red (5YR4/6-Moist); ; 5YR43, 20-50% , 15-30mm, Distinct; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Clear change to -
B21	0.5 - 0.6 m	Yellowish red (5YR4/6-Moist); ; 5YR43, 20-50% , 15-30mm, Distinct; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Clear change to -
B22	0.6 - 0.7 m	Brown (7.5YR4/4-Moist); ; 7.5YR54, 20-50% , 15-30mm, Faint; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 20-50%, coarse gravelly, 20-60mm, subrounded tabular, undisturbed, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.5 (Raupach); Abrupt change to -
R	0.7 - m	Rock

Morphological Notes

A11 Quite acid A1 with weak dry strength. Standard profile for upper catchment with plenty of rock in the transported A1. Some of the rock has an orange weathering ring.
 B21 Duplex profile - the B2 is fairly dark and sorbs moderately - very minor instant swelling. No carbonate except for some in the pale grey WF Shale.

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Observation Notes

Two profiles taken, very similar. Only rep 2 described.

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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 -

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 -

[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 -

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Laboratory Analyses Completed for this profile