Project Name: **Rhynie Soil Survey**
Project Code: **Rhynie** **Site ID:** **A1263** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: N.J. McKenzie
Date Desc.: 01/11/88
Map Ref.: Sheet No. : 6629-18 1:10000
Northing/Long.: 6217320 AMG zone: 54
Easting/Lat.: 289910 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Undisturbed soil core
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
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; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular tabular, dispersed, Shale, coarse fragments; Field pH 7.5 (Raupach); Clear change to -
A12	0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); Reddish yellow (7.5YR6/6-Dry); ; Loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 20-50%, cobbly, 60-200mm, angular tabular, dispersed, Shale, coarse fragments; Field pH 7 (Raupach); Abrupt change to -
B21	0.2 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Medium heavy clay; 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7 (Raupach);
B21	0.3 - 0.4 m	Dark reddish brown (5YR3/4-Moist); ; Medium heavy clay; 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 10-20%, coarse gravelly, 20-60mm, angular tabular, undisturbed, Shale, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Field pH 7.5 (Raupach); Gradual change to -
B22	0.4 - 0.5 m	Dark reddish brown (5YR3/3-Moist); , 5YR46, 20-50% , 30-mm, Distinct; Medium heavy clay; 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 10-20%, cobbly, 60-200mm, angular tabular, undisturbed, Shale, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Clear change to -
C	0.5 - 0.7 m	; Strong consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8 (Raupach);
C	0.6 - m	; Strong consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8 (Raupach); Gradual change to -
R	- m	Rock

Morphological Notes

A11	A duplex profile. A1 has been heavily cultivated although there are many roots from this last crop. The A appears to be transportational with large relatively fresh rocks.
B21	The B2 is dark and is slow to sorb water although a bolus was formed in a few minutes.
B22	The mottles are clay casts.
C	The colour of the C horizon is white/grey/brown bands.
C	No carbonate in the solum although minor white bands are evident in the C.

Project Name: **Rhynie Soil Survey**
Project Code: **Rhynie** **Site ID:** **A1263** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

R grey shale.

Observation Notes

Site Notes

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1263 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.7										
0.6 - -										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								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 - 0.7												
0.6 - -												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.7										
0.6 - -										

Project Name: Rhynie Soil Survey
Project Code: Rhynie **Site ID:** A1263 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Laboratory Analyses Completed for this profile