Project Name: Rhynie Soil Survey

Project Code: Site ID: Observation ID: 1 Rhynie A1236

Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Date Desc.: N.J. McKenzie Locality:

Elevation: 31/10/88 283 metres Sheet No.: 6629-18 1:10000 Map Ref.: Rainfall: No Data Northing/Long.: 6216220 AMG zone: 54 Runoff: No Data Easting/Lat.: 289650 Datum: AGD66 Drainage: No Data

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Undisturbed soil core, Slightly porous, No Data

Shale

Land Form

Rel/Slope Class: No Data Pattern Type: No Data No Data Morph. Type: Lower-slope Relief: Elem. Type: No Data Slope Category: No Data 1 % Aspect: No Data Slope:

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A **Principal Profile Form:** Uq5.11 **ASC Confidence: Great Soil Group:** N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology										
A1	0 - 0.1 m	Dark brown (7.5YR3/3-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Dry; Very firm consistence; Field pH 7.5 (Raupach);								
B21	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); , 5YR33, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);								
B22	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); , 5YR33, 20-50% , 15-30mm, Distinct; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);								
B22	0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); , 7.5YR43, 20-50% , 15-30mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);								
B22	0.4 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach);								
B23	0.5 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach);								
B23	0.7 - 0.9 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular								

B24 0.9 - 1.2 m Dark grey (10YR4/1-Moist); , 7.5YR33, 20-50% , 15-30mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Many cutans, >50% of ped

faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Nodules;

blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9

Field pH 9 (Raupach);

(Raupach);

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Pale brown (10YR6/3-Moist); , 20-50% , 30-mm, Prominent; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, 1.2 - 1.6 m

>50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Extremely coarse (>

60 mm), Soft segregations; Field pH 9 (Raupach);

B32 1.6 - 1.8 m Brown (10YR5/3-Moist); , 5YR46, 20-50% , 30-mm, Prominent; Heavy clay; Moderate grade of

structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 -2 mm), Nodules; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach);

1.8 - m

Morphological Notes

Observation Notes

Strong cracking clay.

Site Notes

Barley grass/subclover pasture.

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<u>Laboratory Test Results:</u> Depth pH 1:5 EC

<u>Laboratory Test Results:</u>										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Ex Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m	Ou .	···g		Cmol (+)/l				%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.6 1.6 - 1.8 1.8 -										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		icle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	One Only
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.6 1.6 - 1.8 1.8 -										
Depth	COLE			imetric/Vol					K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar	5 Bar 1	5 Bar	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 0.7 - 0.9 0.9 - 1.2 1.2 - 1.6 1.6 - 1.8 1.8 -										

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Laboratory Analyses Completed for this profile