Site Information Ust Mean Zero NJ. Mean Zero Locality: Elevation: No Data   Date Desc:: 01/11/83 Sheet No.: 6629-18 1:000 Rainfall: No Data   BatingLat:: 289960 Datum: AGD66 Rainfall: No Data   Seciory 229960 Datum: AGD66 Drainage: No Data   Seciory 289960 Datum: AGD66 Drainage: No Data   Seciory No Data Substrate Material: No Data   Geol. Ref:: No Data Substrate Material: No Data   Surface: Soil Condition (dry): Erem. Type: No Data Substrate Material: No Data   Surface: Soil Condition (dry): Erescingen:: No Data Sufface Carses fragments: N/A   Surface: Corrise level not specified Surface Carses Fragments: Principal Profile Form: N/A   Yoat: Reddish brown (5YR3/4-Moist): Yellowish red (5YR6/6-Dry): Sandy clay loam, fine sandy: Weak grade of structure; Field pH 6.5 (Raupach): Few, very fine (0-1mm) roots; Abrupt chances   Yoat: Boat: Reddish brown (5YR3/4-Moist): Yellowish red (5YR6/6-Dry): Sandy clay loam, fine sandy: Weak grade of structure; Field pH 6.5 (Raupach): Few, very fine (0-1mm) roots; Abrupt chances to walls coated, faint; Field pH 7.5 (Raupach): Few, very fine (0-	Projec	ct Name: ct Code: cy Name:	Rhynie	oil Survey Site ID: vision of Soils (S/		Observatio	n ID:	1		
Date Desc: 01/11/88 Elevation: No Data   Map Ref.: Sheet No:: 6629-18 1:Northing/Long: 6216440 AMG zone: 5:4 Rumoff: No Data   Stating/Lat: 289960 Datum:: AGD66 Drainage: No Data   Geology ExposureType: Unditived soil core Conf. Sub. is Parent. Mat: No Data   Geol. Ref.: No Data Substrate Material: No Data   Geol. Ref.: No Data Substrate Material: No Data   Stopp: No Data Substrate Material: No Data   Surface Soil Condition (dry): Erosin: Solope Category: No Data   Surface Soil Condition (dry): Erosin: Solope Category: No Data   Surface Confidence: Great Soil Group: N/A   Confidence ivel not specified Great Soil Group: N/A   Surface Coarse Fragments: Principal Profile Form: N/A   Profile Morphology A1 0:1:0:15 Dark reddish brown (SYR3/4-Moist); Yellowish red (SYR5/6-Dry); Sandy clay loam, fine sandy; Weak grade of structure: Few cutans, <10% of ped faces or walls coated, faint; Field PH 5. (Raupach); Few, very fine (0:1mm) roots; Abrupt change to -   B1 0:1:0:15	Site Ir	nformatio	<u>n</u>							
Exposure Type:   Undisturbed soil core   Conf. Sub. is Parent. Mat:   No Data     Geol. Ref:   No Data   Substrate Material:   No Data     Rel/Slope Class:   No Data   Pattern Type:   No Data     Rel/Slope Class:   No Data   Relifie:   No Data     Stope:   %   Aspect:   No Data     Surface Soil Condition (dry):   Erosion:   Surface Soil Condition (dry):     Erosion:   Soil Classification   N/A     Australian Soil Classification:   Mapping Unit:   N/A     ASC Confidence:   Great Soil Group:   N/A     Considence level not specified   Straface Consets Fragments:   Fragments:     Principal Profile   N/A   Confidence:   N/A     Out-1 or.15 m   Dark reddish brown (5YR3/4-Moist); Yellowish red (5YR5/6-Dry); Sandy Clay loam, fine sandy; Weak grade of structure; Field PH 5.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -     B1   0.1 - 0.15 m   Dark reddish brown (5YR3/4-Moist); Clay loam; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Field PH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -     B21   0.15 - 0.4 m   Red(2.5YR4/6-Moist); SYR44,	Date D Map Ro Northin Easting	Desc. By:N.J. IDate Desc.:01/11Map Ref.:SheeNorthing/Long.:6216		629-18 1:10000 G zone: 54	Elevation:No DataRainfall:No DataRunoff:No Data					
Image: Second Secon	Expos Geol. F	ExposureType: Undis		soil core						
Soli Classification: Mapping Unit: N/A   Australian Soli Classification: Mapping Unit: N/A   Site Disturbance:   Confidence level not specified   Site Disturbance:   Yegetation:   Surface Coarse Fragments:   Profile Morphology   A1 0.0.1 m Dark reddish brown (5YR3/4-Moist); Yellowish red (5YR5/6-Dry); ; Sandy Clay Ioam, fine sandy; Weak grade of structure; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -   B1 0.1 - 0.15 m Dark reddish brown (5YR3/4-Moist); ; Clay Ioam; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -	Rel/Slo Morph Elem. Slope:	Rel/Slope Class:No IMorph. Type:No IElem. Type:No ISlope:%		<u>):</u>	Relief: Slope Category:	No Data nry: No Data				
Australian Soil Classification: Mapping Unit: N/A   N/A Principal Profile Form: N/A   ASC Confidence: Great Soil Group: N/A   Site Disturbance: Vyegetation: N/A   Surface Coarse Fragments: Frofile Morphology N/A   A1 0 - 0.1 m Dark reddish brown (5YR3/4-Moist); Yellowish red (5YR5/6-Dry); ; Sandy clay loam, fine sandy; Weak grade of structure; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -   B1 0.1 - 0.15 m Dark reddish brown (5YR3/4-Moist); ; Clay loam; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -										
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B1 0.1 - 0.15 m Dark reddish brown (5YR3/4-Moist); ; Clay Ioam; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt change to -	Profile	e Morphol	logy							
B21 0.15 - 0.4 m Red (2.5YR4/6-Moist); ,5YR44, 20-50% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); , very fine (0-1mm) roots; Gradual change to -   B22 0.4 - 0.7 m Yellowish red (5YR4/6-Moist); ,5YR54, 20-50% , 15-30mm, Distinct; Medium heavy clay; Moderate grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); , very fine (0-1mm) roots; Gradual change to -   B22 0.4 - 0.7 m Yellowish red (5YR4/6-Moist); ; Heavy clay; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -	A1	A1 0 - 0.1 m Dark reddish brown (5YR3/4-Moist); Yellowish red (5YR5/6-Dry); ; Sandy clay loam, fine sandy;								
grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); , very fine (0-1mm) roots; Gradual change to -   B22 0.4 - 0.7 m Yellowish red (5YR4/6-Moist); ; Heavy clay; Weak grade of structure; Few cutans, <10% of ped faces or walls coated, faint; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -   B3 0.7 - 1.2 m Yellowish red (5YR4/6-Moist); , 5YR56, 20-50%, 15-30mm, Distinct; Heavy clay; Weak grade of structure; 2-10%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 9 (Raupach); Diffuse change to -   C 1.2 - 1.6 m Yellowish red (5YR4/6-Moist); , Medium heavy clay; 20-50%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -   R 1.6 - m Rock   Morphological Notes Moderate to low sorptive clay in the top of the B.   B21 Mottles in form of coatings.   B3 The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours. Colour 5yr4/6 + grey + white.   R Grey shale.	B1	0.1 - 0.15	ped fa	ped faces or walls coated, faint; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrup						
faces or walls coated, faint; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -B30.7 - 1.2 mYellowish red (5YR4/6-Moist); , 5YR56, 20-50% , 15-30mm, Distinct; Heavy clay; Weak grade of structure; 2-10%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 9 (Raupach); Diffuse change to -C1.2 - 1.6 mYellowish red (5YR4/6-Moist); ; Medium heavy clay; 20-50%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -R1.6 - mRockMorphological NotesNoderate to low sorptive clay in the top of the B.B21Moderate to low sorptive clay in the top of the B.B21Mottles in form of coatings.B3The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours.CColour 5yr4/6 + grey + white.RGrey shale.	B21	0.15 - 0.4	grade	grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8						
structure; 2-10%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 9 (Raupach); Diffuse change to -   C 1.2 - 1.6 m Yellowish red (5YR4/6-Moist); ; Medium heavy clay; 20-50%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -   R 1.6 - m Rock   Morphological Notes Noderate to low sorptive clay in the top of the B.   B21 Mottles in form of coatings.   B3 The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours.   C Colour 5yr4/6 + grey + white.   R Grey shale.	B22	0.4 - 0.7	faces	faces or walls coated, faint; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft						
platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 9 (Raupach); Gradual change to -   R 1.6 - m   R 1.6 - m   R Double carbonate maximum.   B1 Moderate to low sorptive clay in the top of the B.   B21 Mottles in form of coatings.   B3 The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours.   C Colour 5yr4/6 + grey + white.   R Grey shale.	B3	0.7 - 1.2	structo Comm	structure; 2-10%, medium gravelly, 6-20mm, angular platy, stratified, Shale, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %),						
Morphological NotesA1Double carbonate maximum.B1Moderate to low sorptive clay in the top of the B.B21Mottles in form of coatings.B3The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours.CColour 5yr4/6 + grey + white.RGrey shale.	С	1.2 - 1.6	platy,	platy, stratified, Shale, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm),						
A1Double carbonate maximum.B1Moderate to low sorptive clay in the top of the B.B21Mottles in form of coatings.B3The B3 appears to be a 'lateral aquifer', very fine Fe/Mn nodules and complex colours.CColour 5yr4/6 + grey + white.RGrey shale.Observation Notes	R 1.6 - m Rock									
	A1 B1 B21 B3 C R		Double Modera Mottles The B3 Colour Grey s	ate to low sorptive cla s in form of coatings. 3 appears to be a 'late 5yr4/6 + grey + white	y in the top of the E ral aquifer', very fir		ules and	l complex colours.		
	-		<u>Dtes</u>							

Project Name:Rhynie Soil SurveyProject Code:RhynieSite ID:Agency Name:CSIRO Division of Soils (SA)

Observation ID: 1

Project Name:	Rhynie Soil Surv	/ey			
Project Code:	Rhynie	Site ID:	A1280	<b>Observation ID:</b>	1
Agency Name:	<b>CSIRO</b> Division	of Soils (S	4)		

## Laboratory Test Results:

Depth	pH	1:5 EC		hangeable	Cations K		changeable	CEC	ECEC	ESP
m		dS/m	Ca	Vlg	ĸ	Na Cmol (+)/	Acidity kg			%
0 - 0.1 0.1 - 0.15 0.15 - 0.4 0.4 - 0.7 0.7 - 1.2 1.2 - 1.6 1.6 -										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk			Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV CS	FS %	Silt Clay
0 - 0.1 0.1 - 0.15 0.15 - 0.4 0.4 - 0.7 0.7 - 1.2 1.2 - 1.6 1.6 -										
Depth	COLE					ater Conte			sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar J - m3/m3	1 Bar	5 Bar 15	Bar m	m/h	mm/h
0 - 0.1 0.1 - 0.15 0.15 - 0.4 0.4 - 0.7 0.7 - 1.2 1.2 - 1.6 1.6 -										

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Laboratory Analyses Completed for this profile