Projec	ct Name: ct Code: cy Name:	Rhynie Soil Survey Rhynie Site ID: CSIRO Division of Soils (S	-	Observation ID:	1
Site In	formation				
Easting	esc.: 0 ef.: 5 ng/Long.: 6 g/Lat.: 2	J.J. McKenzie 11/11/88 Sheet No. : 6629-18 1:10000 1216740 AMG zone: 54 190240 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data No Data No Data	
<u>Geolo</u> Exposi Geol. F	ureType: L	Jndisturbed soil core No Data	Conf. Sub. is Pa Substrate Materi		
Morph Elem. Slope:	ppe Class: N . Type: N Type: N	No Data No Data No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
		dition (dry):			
Erosic Soil C		n			
Austra N/A ASC C Confid	lassificatio lian Soil Clas Confidence: ence level no	ssification:	Princ	ping Unit: cipal Profile Form: t Soil Group:	N/A N/A N/A
	isturbance:	<u>:</u>			
Vegeta Surfac	<u>ation:</u> ce Coarse F	-ragments:			
	e Morpholo				
A1	0 - 0.1 m	Reddish brown (2.5YR4/4- mm, Subangular blocky; Ea	arthy fabric; Dry; Ve	ry firm consistence;	eak grade of structure, 5-10 0-2%, medium gravelly, 6- 7 (Raupach); Abrupt change
B1	0.1 - 0.2 m	Reddish brown (2.5YR4/3- grade of structure, 5-10 mr cutans, <10% of ped faces	n, Polyhedral; Roug	h-ped fabric; Dry; St	rong consistence; Few
B21	0.2 - 0.3 m	Reddish brown (2.5YR4/4- Strong grade of structure, consistence; Common cuta (Raupach);	10-20 mm, Polyhedr	al; Rough-ped fabric	; Dry; Very strong
B21	0.3 - 0.4 m	Reddish brown (2.5YR4/4- Strong grade of structure, 2 consistence; Common cuta (Raupach);	20-50 mm, Angular I	blocky; Rough-ped fa	abric; Dry; Very strong
B21	0.4 - 0.42 n	n Reddish brown (2.5YR4/4- Strong grade of structure, 2 consistence; Common cuta (Raupach); Abrupt change	20-50 mm, Angular ans, 10-50% of ped	blocky; Rough-ped fa	abric; Dry; Very strong
B22	0.42 - 0.5 n	n Red (2.5YR4/6-Moist); , 5Y of structure, 20-50 mm, An cutans, 10-50% of ped face coarse (20 - 60 mm), Soft s	gular blocky; Rough es or walls coated, c	-ped fabric; Dry; Stro distinct; Many (20 - 5	
B22	0.5 - 0.7 m	Red (2.5YR4/6-Moist); , 5Y of structure, 20-50 mm, An cutans, 10-50% of ped fact coarse (20 - 60 mm), Soft s	gular blocky; Rough es or walls coated, c	-ped fabric; Dry; Stro distinct; Many (20 - 5	0 %), Calcareous, Very
B3	0.7 - 0.9 m	Red (2.5YR4/6-Moist); , 5Y blocky; Rough-ped fabric; I walls coated, distinct; Many segregations; Field pH 9 (F	Dry; Strong consiste y (20 - 50 %), Calca	nce; Common cutan reous, Very coarse (

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- C 0.9 1.5 m ; Common (10 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 9 (Raupach);
- C 1.5 2 m ; Field pH 9 (Raupach);

Morphological Notes

A1	A red-brown earth with a very thin degraded (eroded?) A1 horizon.
B1	The dark red B1 and B2 are very tough and very pedal, even though they have a 'low' pH
	of 7.5-8.0. The B1 and B21's mottling is due to clay coatings.
B21	The B2 is non-swelling and has a very low sorptivity.
B21	The carbonate enters at 42cm in a standard B22k.
B22	B22 and B3 mottles caused by carbonate.
B3	The BC and C have a strong element of the original rock fabric. The carbonate
	decreases in the C although some banding is evident throughout.
С	Yellow banding present in this and the lower horizon.
С	The C is thick and predominantly light yellow with increasing grey bands at depth.
Observation Notes	

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC	Excha Ca Mg	ingeable	Cations K	Na	Exchangeable Acidity	CEC		ECEC	;	ESP
m		dS/m	a wi	9	n	Cmol (%
0 - 0.1	5.37C 5.98A	0.12A										
0.1 - 0.2	5.91C 6.81A	0.1A										
0.2 - 0.3												
0.3 - 0.42	8.03C 8.7A	0.36A										
0.4 - 0.42												
0.42 - 0.5	8.25C 9.03A	0.6A										
0.5 - 0.7												
0.7 - 0.9	8.42C 9.22A	0.91A										
0.9 - 1.5												
1.5 - 2												
Depth	CaCO3	Organic	Avail.	Total	Total	Tot			article		Analys	
m	%	С %	P mg/kg	P %	N %	K %		GV	CS	FS %	Silt	Clay

m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.42 0.4 - 0.42 0.42 - 0.5 0.5 - 0.7 0.7 - 0.9 0.9 - 1.5 1.5 - 2	70	70	шулу	70	79	70	My III S			70		
Depth	COLE	Sat.	Gravim 0.05 Bar 0	.1 Bar		r Conte Bar		Bar	K s		K unsa	
m 0 - 0.1 0.2 - 0.3 0.3 - 0.42 0.4 - 0.42 0.42 - 0.5 0.5 - 0.7 0.7 - 0.9 0.9 - 1.5 1.5 - 2				g/g	- m3/m3				mm	/h	mm/ŀ	1

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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour

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