SHREWSBURY AND ATCHAM
LOCAL PLAN
LAND AT ROBERTSFORD/WEIRHILL

Agricultural Land Classification
ALC Map and Report
January 1999

J M LePage
Resource Planning Team
Northern Region
FRCA Wolverhampton

RPT Reference: 052/98 & 25/RPT/0973
FRCA Reference: EL 35/10151A
LURET Job Number: ME1AP74

Sent 23.2.99

AGRICULTURAL LAND CLASSIFICATION REPORT
SHREWSBURY AND ATCHAM LOCAL PLAN
LAND AT ROBERTSFORD/WEIRHILL

INTRODUCTION

1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey on 43.1 hectares of land. The results of this survey supersede any previous ALC information for this land. The land is located on the eastern edge Shrewsbury. The site is bordered to the south and east by agricultural land, to the west by urban land and a sports ground and to the north by a railway. The survey was in connection with the Shrewsbury and Atcham Local Plan.

2. The survey was undertaken on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF) in January 1999 by the Resource Planning Team of the Farming and Rural Conservation Agency (FRCA)- Northern region of FRCA.

3. The land has been graded in accordance with the publication "Agricultural Land Classification of England and Wales - Revised guidelines and criteria for grading the quality of agricultural land" (MAFF 1988) .

4. At the time of survey the agricultural land on this site was under sugar beet, winter cereals and grass.

SUMMARY

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10000 with an average auger boring density of 1 per hectare. The ALC map is only accurate at this base map scale and any enlargement would be misleading.

6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% surveyed area	% site area
1	10.5	27	24
2	15.1	38	35
3a	13.6	35	32
Agricultural land not surveyed	-	N/A	-
Other land	3.9	N/A	9
Total surveyed area	39.2	100	-
Total site area	43.1	-	100

7. The agricultural land on this site has been classified as Grade 1 (excellent quality), Grade 2 (very good quality) and Subgrade 3a (good quality). The key limitations to the agricultural use of this land are soil droughtiness and soil wetness.

8. Land of excellent quality is found mainly in the centre of the site between Weirhill and Robertsford Farm. The soils comprise either a medium clay loam, sandy clay loam or sandy silt loam topsoil, overlying a sandy clay loam or sandy silt loam subsoil, becoming either heavier or lighter in texture at depth.

9. Land of very good quality occurs in the northern half of the site. The soils typically comprise either a sandy silt loam, medium clay loam or sandy clay loam topsoil, over a sandy clay loam subsoil, becoming heavier in texture with depth. Many to abundant stones are present in the subsoil in some areas of the land mapped as very good quality.

10. Land of good quality occurs in the south of the site. The soils typically comprise either a medium clay loam or sandy clay loam topsoil over a heavy clay loam upper subsoil onto clay with few to common stones within the profile. Alternatively the subsoils may comprise either a medium clay loam or sandy clay loam with many to abundant stones, increasing in abundance with depth.

FACTORS INFLUENCING ALC GRADE

Climate

11. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.

12. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5 km grid datasets using standard interpolation procedures (Meteorological Office, 1989).

Table 2: Climatic and altitude data

Factor	Units	Values
Grid reference	N/A	SJ 517 120
Altitude	m, AOD	70
Accumulated Temperature	day°C (Jan-June)	1410
Average Annual Rainfall	mm	674
Field Capacity Days	days	142
Moisture Deficit, Wheat	mm	102
Moisture Deficit, Potatoes	mm	94
Overall climatic grade	N/A	Grade 1

13. Climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.

14. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (ATO, January to June), as a measure of the relative warmth of a locality.

15. The combination of rainfall and temperature at this site means that there is no overall climatic limitation.

Site

16. The site lies at an altitude of 60 to 75 metres. The land generally rises from the south and east of the site towards the west.

17. The three site factors of gradient, microrelief and flooding are considered when classifying the land.

18. These factors do not impose any limitations on the agricultural use of this land.

Geology and Soils

19. The solid geology of the area is comprised of Carboniferous Upper Coal Measures, which outcrop in the northern half of the site - British Geological Survey (1952). The drift geology only overlies the solid geology in the south of the site and comprises glacial sand and gravel - British Geological Survey (1974).

20. The soils that have developed over this geology generally have either a sandy silt loam or clay loam texture and the subsoils can be stony, particularly in the southern half of the site.

Agricultural Land Classification

21. The details of the classification of the site are shown on the enclosed ALC map and the area statistics of each grade are given in Table 1, page 1.

Grade 1

22. Land of excellent quality occupies 10.5 ha (24 %) of the site and is found in the centre of the site.

23. The profiles commonly comprise either a sandy silt loam, medium clay loam or a sandy clay loam topsoil. This overlies either a sandy silt loam, sandy clay loam or medium sandy loam subsoil. Occasionally the lower subsoils have heavier textures at depth. There are few to common stones within the profile, increasing slightly with depth. The depths to gleying and a slowly permeable layer results in Wetness Class I. The moisture balance also places these soils in Grade 1.

24. There are no or only very minor limitations to the agricultural use of this land.

Grade 2

25. Land of very good quality occupies 15.1 ha (35 %) of the site and is found in the northern half of the site. Two types of profile can be found within the areas of very good quality land and can occur anywhere within them.

26. In the first profile type the topsoils typically comprise either a medium clay loam or sandy silt loam. This overlies either a sandy clay loam, medium clay loam or sandy silt loam upper subsoil with few to common stones within the profile, over a medium clay loam and heavy clay loam lower subsoil with many to abundant stones. The moisture balance places these soils in Grade 2

27. In the second profile type the topsoils typically comprise either a medium clay loam, sandy silt loam or sandy clay loam. This overlies a sandy clay loam upper subsoil, passing to heavy clay loam and clay at depth. There are few to common stones within these subsoils. The depths to gleying and a slowly permeable layer result in Wetness Class III and Grade 2 with a sandy silt loam topsoil, or Wetness Class II and Grade 2 with a sandy clay loam topsoil.

28. Isolated borings of good quality land were found within the area mapped as very good quality land. However these areas were too small to map at this scale of survey.

29. The main limitations to the agricultural use of this land are soil droughtiness and soil wetness.

Subgrade 3a

30. Land of good quality occupies 13.6 hectares (32 %) of the site area and is found in the south of the site. Two different profiles are found within the area of good quality land.

31. In the first profile type, located mainly in the south east corner of the site, the soils typically comprise a medium clay loam topsoil over a heavy clay loam upper subsoil onto clay. There are few to common stones within the profile, increasing in abundance with depth. The depths to gleying and the slowly permeable layer place these soils in Wetness Class III.

32. The second profile type is located mainly in the south west of the site. The topsoils commonly comprise either a medium clay loam or a sandy clay loam topsoil, with common stones. This overlies either a medium clay loam or sandy clay loam subsoil with many to abundant stones, increasing in abundance with depth. The moisture balance places these soils in Subgrade 3a.

33. The main limitations to the agricultural use of this land are soil droughtiness and soil wetness.

Other Land

34. Other land occupies 3.9 hectares (9 %) of the site area and consists of farm buildings, tracks, an electricity substation and a caravan park.

Resource Planning Team
Northern Region
FRCA Wolverhampton

SOURCES OF REFERENCE

British Geological Survey (1952) Sheet 152, Shrewsbury, Solid Edition.
1:63 360 Scale.
BGS: London.

British Geological Survey (1974) Sheet 152, Shrewsbury, Drift Edition.
1:63 360 Scale.
BGS: London.

Ministry of Agriculture, Fisheries and Food (1988) Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land.
MAFF: London.

Meteorological Office (1989) Climatological Data for Agricultural Land Classification.
Meteorological Office: Bracknell.

Final Version.

program: ALC012 LIST OF BORINGS HEADERS 08/02/99 ROBERTSFORD

SAMPLE NO.	GRID REF	USE	ASPECT	GRDNT	GLEY	SPL	--WETNESS-- CLASS	GRADE	-WHEAT- AP	MB	-POTS- AP	MB	DRT	M.REL FLOOD	EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
1	SJ51601250	SBT	E		033	043	3	3A	130	28	114	20	2				WE	3A	
1P	SJ51801160	SAS	E	02	038	038	3	3A	114	12	106	12	2				WE	3A	
2	SJ51701250	SBT	E		038		2	1	107	5	115	21	3A				DR	3A	DA-65ST
2P	SJ51701185	PGR	SE	01	000		1	1	087	-15	083	-11	3A				DR	3A	
3	SJ51601240	SBT	E		038	055	3	2	121	19	119	25	2				WE	2	DA-90ST
3P	SJ51901220	SBT	SE	03	000		1	1	117	15	118	24	2				DR	2	DA-80ST
4	SJ51701240	SBT	E		040		2	2	137	35	108	14	1				WE	2	
4P	SJ51881210	SBT	E	02	000		1	1	164	62	124	30	1					1	
5	SJ51801240	SBT	E		000		1	1	102	0	106	12	3A				DR	3A	DA-80ST
6	SJ51601230	SBT	E	01	035		2	2	102	0	106	12	3A				WE	2	DA-76ST
7	SJ51701230	SBT	E	01	000		1	1	151	49	110	16	1					1	
8	SJ51801230	SBT	E	01	049	049	3	3A	093	-9	098	4	3A				WE	3A	DA-60ST
9	SJ51601220	SBT	E	01	000		1	1	108	6	107	13	2				DR	2	DA-80ST
10	SJ51701220	SBT	E	01	000	070	1	1	156	54	127	33	1					1	RED SPL
12	SJ51901220	SBT	E	01	060		2	1	126	24	116	22	2				DR	2	
14	SJ51601210	SBT	E	01	000		1	1	169	67	133	39	1					1	
15	SJ51701210	CER	E	02	000		1	1	119	17	109	15	2					1	TO-120
16	SJ51801210	SBT	N	02	000		1	1	170	68	138	44	1					1	
17	SJ51901210	SBT	N	01	060		1	1	140	38	141	47	1					1	DA-80WET
18	SJ51401200	CER	N	01	039	065	3	3A	108	6	112	18	2				WE	3A	DA-80
19	SJ51501200	CER	N	01	000		1	1	121	19	110	16	2				DR	2	DA-90
20	SJ51601200	CER	E		000		1	1	131	29	111	17	2				DR	2	
21	SJ51701200	CER	E	02	075		1	1	131	29	110	16	2				DR	2	DA-100ST
22	SJ51801200	CER	E	03	036		2	2	120	18	109	15	2				WE	2	DA-90GRT
23	SJ51901200	PGR	E	03	000		1	1	132	30	118	24	1					1	
24	SJ51401190	PGR	E	01	000		1	1	138	36	121	27	1					1	
25	SJ51501190	PGR	E	01	000		1	1	138	36	121	27	1					1	
27	SJ51701190	CER	E	02	000		1	1	064	-38	064	-30	3B				DR	3B	DA-40ST
28	SJ51801190	PGR	E	01	028		2	1	095	-7	097	3	3A				DR	3A	DA-80ST
29	SJ51401180	PGR	E	01	020		1	1	124	22	114	20	2				DR	2	DA-93ST
30	SJ51501180	PGR	E	01	030		2	1	108	6	110	16	2				DR	2	DA-80ST
31	SJ51601180	PGR	E	01	020		2	1	099	-3	108	14	3A				DR	3A	DA-70ST

SAMPLE NO.	GRID REF	USE	ASPECT	GRDNT	GLEY	SPL	--WETNESS-- CLASS	GRADE	-WHEAT- AP	MB	-POTS- AP	MB	M.REL DRT	FLOOD	EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
32	SJ51701180	CER	E	02	030		2	2	106	4	106	12	3A				DR	3A	DA-80WET
32A	SJ51701185	PGR	E	01	000		1	1	082	-20	088	-6	3B				DR	3B	DA-70ST
33	SJ51801180	LEY	E	02	000	035	4	3B	126	24	118	24	2				WE	3B	RED SPL
34	SJ51601170	CER	S	01	000		1	1	084	-18	083	-11	3A				DR	3A	DA-85ST
35	SJ51701170	CER	S	01	055	055	3	3A	108	6	099	5	2				WE	3A	
36	SJ51801170	PGR	S	01	030	060	3	3A	135	33	114	20	1				WE	3A	
37	SJ51601160	CER	S	03	000		1	1	075	-27	075	-19	3B				DR	3B	DA-50ST
38	SJ51701160	CER	S	01	000		1	1	118	16	108	14	2				DR	2	DA95ST
39	SJ51801160	SAS	E	02	000	045	3	3A	120	18	116	22	2				WE	3A	DA-95ST
40	SJ51601150	CER	S	01	000		1	1	084	-18	087	-7	3A				DR	3A	DA-55ST
41	SJ51701150	STU	S	02	035		2	2	076	-26	077	-17	3B				DR	3B	DA-54ST
42	SJ51801150	SGR	SE	02	040	040	3	3A	114	12	112	18	2				WE	3A	

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC
1	0-33	mzcl	10YR43 00						0	0	HR	1						
	33-43	hzcl	05YR44 00	75YR58 00	C			Y	0	0	HR	1		M				
	43-50	c	05YR53 00	75YR58 00	C			Y	0	0	HR	1		P			Y	
	50-75	c	10YR62 00	75YR46 58	M			Y	0	0	HR	1		P			Y	
	75-85	scl	10YR62 00	75YR46 58	C			Y	0	0	HR	1		M			Y	
	85-100	scl	10YR62 00	75YR46 58	M			Y	0	0	HR	1		M			Y	
1P	0-38	mcl	10YR32 00						0	0	HR	3						
	38-45	hcl	10YR53 00	10YR58 00	C			Y	0	0	HR	10	WKCSB FM	M			Y	
	45-100	c	05YR44 00				75YR42 00	Y	0	0	HR	10	WKCSB FM	P			Y	
2	0-38	mszl	10YR32 00						0	0	HR	2						
	38-60	mszl	25 Y53 00	25 Y56 00	C			Y	0	0	HR	2		M				
	60-65	mszl	25 Y53 00	25 Y56 00	C			Y	0	0	HR	10		M				
2P	0-25	mcl	10YR32 00						3	1	HR	5						
	25-35	mcl	10YR43 00						0	0	HR	38		M				
	35-90	mcl	05YR44 00						0	0	HR	50		M				
3	0-38	mszl	10YR32 00						0	0	HR	2						
	38-55	scl	10YR53 00	10YR56 00	C			Y	0	0	HR	2		M				
	55-90	c	05YR42 00	00MN00 00	M			Y	0	0	HR	2		M			Y	
3P	0-33	fszl	75YR32 00						0	0	HR	5						
	33-50	mcl	05YR44 00	00MN00 00	F				0	0	HR	20	MDMSAB FR	G				
	50-80	mcl	05YR44 00						0	0	HR	40		M				
4	0-27	scl	10YR33 00						0	0	HR	2						
	27-40	scl	05YR44 00						0	0	HR	2		M				
	40-82	scl	10YR53 00	10YR56 00	C			Y	0	0	HR	2		M				
	82-110	scl	75YR53 00	10YR56 58	M		00MN00 00	Y	0	0	HR	5		M				
4P	0-32	fszl	75YR32 00						0	0	HR	3						
	32-50	scl	05YR44 00						0	0	HR	2	MDCSB FR	M				
	50-120	scl	25YR34 00						0	0	HR	2	MDCSB FR	M				

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	PED GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC
5	0-38	scl	75YR32 00						0	0	HR	5						
	38-58	scl	75YR42 00						0	0	HR	8		M				
	58-70	msl	75YR42 53						0	0	HR	8		M				
	70-80	lcs	75YR43 00						0	0	HR	10		M				
6	0-35	mcl	10YR32 00						0	0	HR	5						
	35-45	scl	10YR53 00	75YR58 00	C			Y	0	0	HR	3		M				
	45-76	scl	25 Y53 00	10YR56 00	C		00MN00 00	Y	0	0	HR	8		M				
7	0-35	scl	75YR32 00						0	0	HR	2						
	35-70	scl	75YR43 00						0	0	HR	2		M				
	70-85	msl	75YR42 43						0	0	HR	2		M				
	85-120	scl	75YR43 00						0	0	HR	2		M				
8	0-35	hcl	75YR32 00						0	0	HR	1						
	35-49	c	05YR44 00						0	0	HR	1		M				
	49-55	c	75YR53 00	75YR46 00	C			Y	0	0	HR	1		P			Y	
	55-60	hcl	25 Y53 00	75 Y56 00	M		00MN00 00	Y	0	0	HR	3		P			Y	
9	0-35	mcl	75YR43 00						4	2	HR	7						
	35-55	msl	75YR43 00				05YR44 00		0	0	HR	5		M				
	55-80	msl	75YR44 00						0	0	HR	30		M				
10	0-35	fszl	75YR42 00						3	2	HR	5						
	35-55	mcl	75YR44 00	00MN00 00	F				0	0	HR	5		M				
	55-60	mcl	05YR53 00	00MN00 00	C				0	0	HR	5		M				
	60-70	hcl	75YR44 53						0	0	HR	5		M				
	70-95	hcl	05YR44 00						0	0	HR	5		M			Y	
	95-120	c	05YR44 00						0	0	HR	3		P			Y	
12	0-30	fszl	75YR33 00						3	2	HR	6						
	30-43	fszl	75YR43 00						0	0	HR	20		M				
	43-53	mcl	75YR54 00						0	0	HR	40		M				
	53-60	hcl	75YR44 00						0	0	HR	20		M				
	60-70	hcl	75YR53 00	75YR46 00	C			Y	0	0	HR	20		M				
	70-100	c	75YR53 00	75YR46 00	C			Y	0	0	HR	20		M			Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	PED GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC
14	0-35	fszl	05YR33 00						3	0	HR	3						
	35-46	fszl	05YR44 00						0	0	HR	3		M				
	46-55	msl	05YR53 00						0	0	HR	1		M				
	55-65	msl	25YR53 00						0	0	HR	1		M				
	65-110	msl	25YR44 00						0	0	HR	1		M				
15	0-35	scl	75YR32 33						0	0	HR	2						
	35-90	scl	05YR44 00	00MN00	00	F			0	0	HR	3		M				
16	0-30	fszl	05YR33 00						0	0	HR	5						
	30-60	fszl	05YR44 00						0	0	HR	5		M				
	60-80	mcl	25YR44 00						0	0	HR	5		M				
	80-96	fsl	25YR34 00						0	0	HR	5		M				
	96-110	hcl	05YR54 00				25YR52	00	0	0	HR	3		M				
17	0-30	fszl	05YR33 00						0	0	HR	2						
	30-35	fszl	75YR43 00						0	0	HR	1		M				
	35-56	fszl	75YR46 00						0	0	HR	1		M				
	56-60	fsl	75YR54 00	10YR56	00	F			0	0	HR	1		M				
	60-80	scl	75YR53 00	75YR58	00	C		Y	0	0	HR	1		M				
18	0-39	scl	75YR33 00						0	0	HR	2						
	39-65	scl	05YR44 46	00MN00	00	M		Y	0	0	HR	1		M				
	65-80	c	25YR43 00	00MN00	00	M		Y	0	0	HR	1		M			Y	
19	0-35	scl	75YR32 00						0	0	HR	2						
	35-55	scl	25YR44 00						0	0	HR	1		M				
	55-85	scl	25YR44 00						0	0	HR	1		M				
	85-90	mszl	25YR33 00						0	0	HR	1		M				
20	0-35	scl	75YR33 00						0	0	HR	1						
	35-50	scl	75YR43 00						0	0	HR	1		M				
	50-100	scl	25YR33 00						0	0	HR	1		M				
21	0-35	scl	75YR32 00						0	0	HR	3						
	35-55	scl	05YR43 00						0	0	HR	2		M				
	55-75	scl	75YR43 00						0	0	HR	1		M				
	75-90	msl	75YR43 00						0	0	HR	1		M				
	90-100	scl	10YR53 00					n	0	0	HR	1		M				

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC
22	0-36	mcl	75YR32 00						0	0	HR	5						
	36-60	scl	10YR53 00	10YR56	61	C	00MN00 00	Y	0	0	HR	8		M				
	60-90	msl	10YR53 00					Y	0	0	HR	10		M				
23	0-37	mszl	75YR32 00						0	0	HR	2						
	37-95	scl	75YR43 00						0	0	HR	2		M				
24	0-25	mszl	75YR34 00						0	0	HR	2						
	25-60	mszl	05YR44 00	00MN00	00	F			0	0	HR	2		M				
	60-95	mcl	25YR46 00						0	0	HR	2		M				
	95-100	c	25YR34 00						0	0	HR	2		M				
25	0-30	mszl	05YR33 00						0	0	HR	2						
	30-40	mszl	05YR44 00	00MN00	00	F			0	0	HR	2		M				
	40-50	mszl	25YR44 00						0	0	HR	2		M				
	50-100	mcl	05YR46 00						0	0	HR	2		M				
27	0-35	scl	75YR32 00						0	0	HR	5						
	35-40	scl	75YR43 00	00MN00	00	F			0	0	HR	10		M				
28	0-28	mszl	75YR42 00						0	0	HR	3						
	28-40	mszl	10YR53 00	10YR56	00	C	00MN00 00	Y	0	0	HR	5		M				
	40-80	mcl	10YR53 00	10YR56	00	C	00MN00 00	Y	0	0	HR	50		M				
29	0-20	mszl	75YR33 00						0	0	HR	1						
	20-33	mcl	75YR33 00	00MN00	00	F			0	0	HR	3		M				
	33-67	mcl	05YR46 00					Y	0	0	HR	5		M				
	67-75	hcl	05YR46 00					Y	0	0	HR	5		M				
	75-93	hcl	05YR46 00	75YR56	00	M		Y	0	0	HR	10		M				
30	0-25	mszl	75YR33 00						0	0	HR	3						
	25-30	msl	75YR44 00						0	0	HR	5		M				
	30-60	mcl	05YR44 00	00MN00	00	C		Y	0	0	HR	10		M				
	60-80	mcl	05YR43 00					Y	0	0	HR	20		M				

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES COL	MOTTLES ABUN	MOTTLES CONT	PED COL.	GLEY	STONES >2	STONES >6	STONES LITH	STONES TOT	STRUCT/ CONSIST	SUBS STR	SUBS POR	SUBS IMP	SUBS SPL	SUBS CALC
31	0-20	mszl	10YR43 00						0	0	HR	3						
	20-40	mszl	75YR42 00	00MN00	00	C		Y	0	0	HR	5		M				
	40-45	mcl	05YR44 00	10YR56	00	C	00MN00	00 Y	0	0	HR	20		M				
	45-70	mcl	75YR53 00	75YR56	00	C		Y	0	0	HR	20		M				
32	0-30	mcl	10YR32 00						0	0	HR	5						
	30-70	scl	10YR53 43	10YR56	00	C		Y	0	0	HR	10		M				
	70-80	scl	10YR53 00					Y	0	0	HR	10		M				
32A	0-30	mszl	75YR32 00						0	0	HR	5						
	30-70	mcl	75YR43 00						0	0	HR	50		M				
33	0-35	mcl	10YR32 00						0	0	HR	1						
	35-100	c	05YR44 00	00MN00	00	F			0	0	HR	1		M			Y	
34	0-30	mcl	75YR32 00						4	5	HR	10						
	30-85	mcl	75YR42 00						0	0	HR	50		M				
35	0-33	mcl	75YR32 00						7	3	HR	12						
	33-55	mcl	75YR43 00						0	0	HR	33		M				
	55-100	c	05YR44 00	00MN00	00	C		Y	0	0	HR	10		M			Y	
36	0-30	mcl	75YR33 00						0	0	HR	2						
	30-43	mcl	75YR53 00	10YR56	00	C		Y	0	0	HR	5		M				
	43-56	c	05YR34 00	10YR56	00	C		Y	0	0	HR	5		M				
	56-60	scl	25YR34 00					Y	0	0	HR	5		M				
	60-105	hcl	25YR34 00	00MN00	00	C		Y	0	0	HR	5		M			Y	
37	0-45	scl	75YR32 00						0	0	HR	10						
	45-50	scl	75YR53 43						0	0	HR	20		M				
38	0-36	mcl	75YR32 00						0	0	HR	5						
	36-50	mcl	75YR44 00						0	0	HR	10		M				
	50-95	hcl	05YR44 00	00MN00	00	F			0	0	HR	20		M				

				----MOTTLES----			PED		----STONES----				STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC
39	0-38	mcl	10YR32 00						0	0	HR	3						
	38-45	hcl	10YR53 00	10YR58 00	F				0	0	HR	5		M				
	45-95	c	05YR44 00						0	0	HR	3		M			Y	
40	0-38	mcl	10YR33 00						6	3	HR	8						
	38-55	mcl	10YR43 00						0	0	HR	20		M				
	55-56	mcl	10YR43 00						0	0	HR	20		M				
41	0-35	mcl	10YR43 00						0	0	HR	5						
	35-40	mcl	10YR53 00	10YR56 00	C			Y	0	0	HR	40		M				
	40-54	hcl	10YR53 00	10YR56 00	C			Y	0	0	HR	50		M				
42	0-32	mcl	10YR43 00						0	0	HR	2						
	32-40	hcl	75YR44 00						0	0	HR	10		M				
	40-85	hcl	05YR44 00	00MN00 00	C			Y	0	0	HR	10		M			Y	