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**Proposed Golf Course at
Westwood Court Farm, Salters Lane,
Sheldwich, Faversham, Kent
Agricultural Land Classification
ALC Map & Report**

March 1997

**Resource Planning Team
Eastern Region
FRCA, Reading**

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AGRICULTURAL LAND CLASSIFICATION REPORT

PROPOSED GOLF COURSE AT WESTWOOD COURT FARM, SALTERS LANE, SHELDWICH, FAVERSHAM, KENT

INTRODUCTION

1 This report presents the findings of a detailed Agricultural Land Classification (ALC) survey on approximately 65 hectares of land at Westwood Court Farm Salters Lane Sheldwich Faversham in Kent. The survey was carried out during March 1997.

2 The survey was commissioned by the Ministry of Agriculture Fisheries and Food (MAFF) from its Land Use Planning Unit in Reading in connection with an adhoc planning application for a golf course. The results of this survey supersede any previous ALC information for this land.

3 Prior to 1st April 1997 the work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS. After this date the work was completed by the same team as part of the Farming and Rural Conservation Agency (FRCA, Reading). The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF 1988). A description of the ALC grades and subgrades is given in Appendix I.

4 At the time of survey the majority of the agricultural land on this site was either under oilseed rape or orchard with a small area of permanent grassland to the north. The areas shown as Other Land comprise agricultural and residential buildings as well as farm trackways.

SUMMARY

5 The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10,000. It is accurate at this scale but 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 below.

Table 1 Area of grades and other land

Grade/Other land	Area (hectares)	% surveyed area	% site area
1	16.3	26.3	25.2
2	15.6	25.2	24.2
3a	27.6	44.5	42.8
3b	2.5	4.0	3.9
Other land	2.5	N/A	3.9
Total surveyed area	62.0	100.0	94.0
Total site area	64.5		100.0

7 The fieldwork was conducted at an average density of 1 boring per hectare. A total of 63 borings and five soil inspection pits were described.

8 The majority of the agricultural land on this site has been classified as Grades 1 (excellent quality), Grade 2 (very good quality) and Subgrade 3a (good quality) with a small area of Subgrade 3b (moderate quality) to the north west. The key limitation is soil droughtiness.

9 The majority of soil profiles comprise slightly stony silty clay loams or clays over chalk at variable depths. In general the soil profiles are well drained though some of the heavier profiles become slowly permeable at depth. Occasionally this leads to a very slight drainage impedance thus limiting the land to Grade 2. The main limitation however is soil droughtiness as in this locally dry climatic regime the combination of soil textures, structures and stone content slightly reduces the amount of profile available water for crops. As a result the level and consistency of crop yields will be restricted. The land is therefore limited to either Grade 2, Subgrade 3a or 3b depending on the depth to chalk. Occasional Subgrade 3b borings are also limited by a topsoil stone limitation as the high percentage of large flints can cause increased damage to farm machinery and wear to tyres. Land classified as Grade 1 comprises deep well drained silt loams and silty clay loams with virtually no stone. As a result there are little or no limitations to agricultural use in these areas.

FACTORS INFLUENCING ALC GRADE

Climate

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

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

12 The 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.

Table 2 Climatic and altitude data

Factor	Units	Values	
		TR 021 592	TR 023 590
Grid reference	N/A	TR 021 592	TR 023 590
Altitude	m AOD	45	50
Accumulated Temperature	day°C (Jan-June)	1448	1442
Average Annual Rainfall	mm	697	702
Field Capacity Days	days	142	142
Moisture Deficit - Wheat	mm	117	117
Moisture Deficit - Potatoes	mm	113	113
Overall climatic grade	N/A	Grade 1	Grade 1

13 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 (AT0 January to June) as a measure of the relative warmth of a locality

14 The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. However climatic factors can interact with soil properties to influence soil wetness and droughtiness. At this locality the crop adjusted soil moisture deficits are relatively high because the climate is warm and dry thus increasing the likelihood of soil droughtiness

15 Local climatic factors such as frost risk and exposure are unlikely to adversely affect agricultural land use on this site. The site is climatically Grade 1

Site

16 The land on this site slopes gently from 55m AOD in the south east to 35m in the north west

17 Gradient, microrelief and flooding do not affect land quality in this area

Geology and soils

18 The relevant geological sheets (BGS 1974 & 1982) map the majority of the site as Upper Chalk with Thanet Beds to the north east. Head brickearth drift deposits overlie the Thanet Beds in the north east and the Upper Chalk to the south and the extreme north west

19 The most recently published soils information for this area (SSEW 1983) maps the Coombe 1 soil association across the Upper Chalk and the Hamble 1 association across the head brickearth. The former are described as Well drained calcareous fine silty soils deep in valley bottoms shallow to chalk on valley sides in places. Slight risk of water erosion (SSEW 1983) and the latter as Deep well drained often stoneless fine silty soils. Some similar soils affected by groundwater and some fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. Some shallower soils over chalk. Slight risk of water erosion (SSEW 1983)

20 Detailed field examination broadly confirmed the existence of soils similar to those described above. However soils derived from the brickearth were not found in the north west as suggested by the geology map

AGRICULTURAL LAND CLASSIFICATION

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

22 The location of the auger borings and pits is shown on the attached sample location map and the details of the soils data are presented in Appendix II

Grade 1

23 The agricultural land which is derived from the head brickearth has been classified as Grade 1 (excellent quality) These profiles are typified by soil inspection Pit 2 (see Appendix II) where the soils are deep and well drained Here very slightly stony (0-5% flints by volume) silt loam or medium silty clay loam topsoils overlie virtually stone free (0-2% flint by volume) moderately well structured medium or heavy silty clay loam and occasionally clay subsoils These profiles are well drained Wetness Class I contain adequate reserves of profile available water for most crops As a result this land poses little or not limitation to agricultural use

Grade 2

24 The centre of the site has been classified as Grade 2 (very good quality land) mainly due to a minor soil droughtiness limitation The soil profiles here comprise very slightly to slightly stony (1-8% total flint by volume with 1-3% >2cm in diameter) medium silty clay loam topsoils over similarly stony moderately well structured medium or heavy silty clay loam upper subsoils The lower subsoils are more variable comprising heavy silty clay loams and clays which vary from moderately well structured to poorly structured At 75-90cm depth most profiles encounter the chalk bedrock, which soil inspection Pit 3 shows to be relatively hard as the crop roots are only able to penetrate the chalk for a further 10cm These profiles are well drained Wetness Class I but the combination of soil textures structures stone contents and restricted rooting depth acts to slightly reduce the amount of profile available water for plants As a result the level and consistency of crop yields may be restricted

25 Some of these profiles are also equally limited by soil wetness Here the heavy silty clay loam and clay lower subsoils are slowly permeable being paler in colour and more distinctly gleyed than those which are better drained The resultant drainage impedance leads to slight seasonal waterlogging which in this local climatic regime is consistent with Wetness Class II With a medium textured topsoil this land has been classified as Grade 2 because wet soils such as these will inhibit seed germination and growth They can also slightly limit the timing and flexibility of cultivations as trafficking by agricultural machinery and livestock during the wetter months can lead to structural damage

26 Occasional profiles of slightly higher quality are also included within this mapping unit as they are too limited in either number or extent to map separately

Subgrade 3a

27 The agricultural land in the north and central south of the site has been classified as Subgrade 3a (good quality) due to a slight soil droughtiness limitation The soil profiles are calcareous and comprise medium silty clay loam topsoils over a combination of moderately well structured medium or heavy silty clay loam and clay upper subsoils The stone content ranges from 2-10% total flint (with 1-3% >2cm diameter) in the topsoil and 5-10% in the subsoil Some profiles also contain 10-50% chalk fragments before the chalk bedrock is encountered at between 42-79cm depth Soil inspection Pit 4 shows that where the chalk occurs at shallow depths crop roots are able to penetrate an additional 30-40cm However Pit 5 shows that where the chalk does not occur until deeper within the profile the rooting

depth is only a further 10cm. In both cases the amount of profile available water for crops will be slightly reduced leading to slight drought stress during the drier months.

28 Occasional borings of either higher or lower quality also occur within this mapping unit as they are too limited in either number or extent to be mapped separately.

Subgrade 3b

29 A small area of land to the north west of the site has been classified as Subgrade 3b due to a more significant soil droughtiness limitation. The soil profiles here are also calcareous comprising slightly stony (8-25% total flint with 4-20% >2cm or 12-15% chalk with 4-5% > 2cm) medium silty clay loam topsoils over pure chalk at 28-34cm depth. Occasional very thin medium silty clay loam upper subsoils with 30-50% chalk do however occur above this. Soil inspection Pit 1 shows the rooting depth to be approximately 25cm into the chalk but the shallow soil depth above the chalk, and the associated stone content significantly reduces the amount of profile moisture. As a result the level and consistency of crop yields will be adversely affected.

30 Very occasionally the Subgrade 3b profiles are also limited by a topsoil stoniness limitation where the amount of flints >2cm in diameter exceeds 15% of the topsoil volume. These large stones will damage farm machinery and tyres as well as disrupt crop establishment and growth.

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SOURCES OF REFERENCE

British Geological Survey (1974) *Sheet No 273 Faversham 1 50 000 Series Solid & Drift*
BGS London

British Geological Survey (1982) *Sheet No 289 Canterbury 1 50 000 Series Solid & Drift*
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

Met Office (1989) *Climatological Data for Agricultural Land Classification*
Met Office Bracknell

Soil Survey of England and Wales (1983) *Sheet 6 Soils of South East England*
SSEW Harpenden.

Soil Survey of England and Wales (1984) *Soils and their Use in South East England*
SSEW Harpenden

DESCRIPTIONS OF THE GRADES AND SUBGRADES

Grade 1 Excellent Quality Agricultural Land

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

Grade 2 Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural or horticultural crops can usually be grown but on some land of this grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1 land.

Grade 3 Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops, the timing and type of cultivation, harvesting or the level of yield. When more demanding crops are grown, yields are generally lower or more variable than on land in Grades 1 and 2.

Subgrade 3a Good Quality Agricultural Land

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

Subgrade 3b Moderate Quality Agricultural Land

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass, or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

Grade 4 Poor Quality Agricultural Land

Land with severe limitations which significantly restrict the range of crops and/or the level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

Grade 5 Very Poor Quality Agricultural Land

Land with severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

SOIL PROFILE DESCRIPTIONS EXPLANATORY NOTE

Soil pit and auger boring information collected during ALC fieldwork is held on a computer database. This uses notations and abbreviations as set out below.

Boring Header Information

1 **GRID REF** national 100 km grid square and 8 figure grid reference

2 **USE** Land use at the time of survey. The following abbreviations are used

ARA Arable	WHT Wheat	BAR Barley
CER Cereals	OAT Oats	MZE Maize
OSR Oilseed rape	BEN Field Beans	BRA Brassicae
POT Potatoes	SBT Sugar Beet	FCD Fodder Crops
LIN Linseed	FRT Soft and Top Fruit	FLW Fallow
PGR Permanent Pasture	LEY Ley Grass	RGR Rough Grazing
SCR Scrub	CFW Coniferous Woodland	DCW Deciduous Wood
HTH Heathland	BOG Bog or Marsh	FLW Fallow
PLO Ploughed	SAS Set aside	OTH Other
HRT Horticultural Crops		

3 **GRDNT** Gradient as estimated or measured by a hand held optical clinometer

4 **GLEYSPL** Depth in centimetres (cm) to gleying and/or slowly permeable layers

5 **AP (WHEAT/POTS)** Crop-adjusted available water capacity

6 **MB (WHEAT/POTS)** Moisture Balance (Crop adjusted AP - crop adjusted MD)

7 **DRT** Best grade according to soil droughtiness

8 If any of the following factors are considered significant Y will be entered in the relevant column

MREL Microrelief limitation	FLOOD Flood risk	EROSN Soil erosion risk
EXP Exposure limitation	FROST Frost prone	DIST Disturbed land
CHEM Chemical limitation		

9 **LIMIT** The main limitation to land quality. The following abbreviations are used

OC Overall Climate	AE Aspect	EX Exposure
FR Frost Risk	GR Gradient	MR Microrelief
FL Flood Risk	TX Topsoil Texture	DP Soil Depth
CH Chemical	WE Wetness	WK Workability
DR Drought	ER Erosion Risk	WD Soil Wetness/Droughtiness
ST Topsoil Stoniness		

Soil Pits and Auger Borings

1 **TEXTURE** soil texture classes are denoted by the following abbreviations

S	Sand	LS	Loamy Sand	SL	Sandy Loam
SZL	Sandy Silt Loam	CL	Clay Loam	ZCL	Silty Clay Loam
ZL	Silt Loam	SCL	Sandy Clay Loam	C	Clay
SC	Sandy Clay	ZC	Silty Clay	OL	Organic Loam
P	Peat	SP	Sandy Peat	LP	Loamy Peat
PL	Peaty Loam	PS	Peaty Sand	MZ	Marine Light Silts

For the sand loamy sand sandy loam and sandy silt loam classes the predominant size of sand fraction will be indicated by the use of the following prefixes

F	Fine (more than 66% of the sand less than 0.2mm)
M	Medium (less than 66% fine sand and less than 33% coarse sand)
C	Coarse (more than 33% of the sand larger than 0.6mm)

The clay loam and silty clay loam classes will be sub divided according to the clay content **M** Medium (<27% clay) **H** Heavy (27-35% clay)

2 **MOTTLE COL** Mottle colour using Munsell notation

3 **MOTTLE ABUN** Mottle abundance expressed as a percentage of the matrix or surface described

F few <2% **C** common 2-20% **M** many 20-40% **VM** very many 40% +

4 **MOTTLE CONT** Mottle contrast

F faint - indistinct mottles evident only on close inspection
D distinct mottles are readily seen
P prominent - mottling is conspicuous and one of the outstanding features of the horizon

5 **PED COL** Ped face colour using Munsell notation

6 **GLEYS** If the soil horizon is gleyed a **Y** will appear in this column If slightly gleyed an **S** will appear

7 **STONE LITH** Stone Lithology One of the following is used

HR	all hard rocks and stones	SLST	soft oolitic or dolimitic limestone
CH	chalk	FSST	soft fine grained sandstone
ZR	soft argillaceous or silty rocks	GH	gravel with non porous (hard) stones
MSST	soft medium grained sandstone	GS	gravel with porous (soft) stones
SI	soft weathered igneous/metamorphic rock		

Stone contents (>2cm >6cm and total) are given in percentages (by volume)

8 **STRUCT** the degree of development size and shape of soil peds are described using the following notation

degree of development **WK** weakly developed **MD** moderately developed
 ST strongly developed

ped size **F** fine **M** medium
 C coarse **VC** very coarse

ped shape **S** single grain **M** massive
 GR granular **AB** angular blocky
 SAB sub angular blocky **PR** prismatic
 PL platy

9 **CONSIST** Soil consistence is described using the following notation

L loose **VF** very friable **FR** friable **FM** firm **VM** very firm
EM extremely firm **EH** extremely hard

10 **SUBS STR** Subsoil structural condition recorded for the purpose of calculating profile droughtiness **G** good **M** moderate **P** poor

11 **POR** Soil porosity If a soil horizon has less than 0.5% biopores >0.5 mm a Y will appear in this column

12 **IMP** If the profile is impenetrable to rooting a Y will appear in this column at the appropriate horizon

13 **SPL** Slowly permeable layer If the soil horizon is slowly permeable a Y will appear in this column

14 **CALC** If the soil horizon is calcareous a Y will appear in this column

15 Other notations

APW available water capacity (in mm) adjusted for wheat
APP available water capacity (in mm) adjusted for potatoes
MBW moisture balance wheat
MBP moisture balance potatoes

SOIL PIT DESCRIPTION

Site Name WESTWOOD COURT FARM GC Pit Number 1P

Grid Reference TR01805940 Average Annual Rainfall 697 mm
 Accumulated Temperature 1448 degree days
 Field Capacity Level 142 days
 Land Use Oilseed Rape
 Slope and Aspect 02 degrees SW

HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 34	MZCL	10YR43 00	4	8	HR					Y
34- 57	CH	10YR81 64	0	5	HR				P	Y

Wetness Grade 1 Wetness Class I
 Gleying cm
 SPL No SPL

Drought Grade 3B APW 80 mm MBW -37 mm
 APP 82 mm MBP -31 mm

FINAL ALC GRADE 3B
 MAIN LIMITATION Droughtiness

SOIL PIT DESCRIPTION

Site Name WESTWOOD COURT FARM GC Pit Number 2P

Grid Reference TR02405935 Average Annual Rainfall 697 mm
 Accumulated Temperature 1448 degree days
 Field Capacity Level 142 days
 Land Use
 Slope and Aspect degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MZCL	10YR42 00	0	2	HR					
28- 78	MZCL	75YR44 00	0	0			MDCAB	FR	M	
78-120	MZCL	10YR56 00	0	0			MDCSAB	FR	M	

Wetness Grade 1 Wetness Class I
 Gleying cm
 SPL No SPL

Drought Grade 1 APW 160mm MBW 43 mm
 APP 124mm MBP 11 mm

FINAL ALC GRADE 1
 MAIN LIMITATION

SOIL PIT DESCRIPTION

Site Name WESTWOOD COURT FARM GC Pit Number 3P

Grid Reference TR02105910 Average Annual Rainfall 697 mm
 Accumulated Temperature 1448 degree days
 Field Capacity Level 142 days
 Land Use Oilseed Rape
 Slope and Aspect 02 degrees W

HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MZCL	10YR43 00	1	2	HR					Y
28- 39	MZCL	10YR44 00	0	2	HR		MDCSAB	FR	M	
39- 53	HZCL	10YR44 00	0	0		C	MDCSAB	FR	M	
53- 71	HZCL	25Y 62 44	0	0		M	MDCAB	FR	M	
71- 85	HCL	05Y 42 00	0	5	HR	M	MDCAB	FR	M	
85- 95	CH	10YR81 00	0	5	HR				P	Y

Wetness Grade 2 Wetness Class II
 Gleying 039 cm
 SPL 053 cm

Drought Grade 2 APW 130mm MBW 13 mm
 APP 123mm MBP 10 mm

FINAL ALC GRADE 2
 MAIN LIMITATION Soil Wetness/Droughtiness

SOIL PIT DESCRIPTION

Site Name WESTWOOD COURT FARM GC Pit Number 4P

Grid Reference TR02205900 Average Annual Rainfall 697 mm
 Accumulated Temperature 1448 degree days
 Field Capacity Level 142 days
 Land Use Oilseed Rape
 Slope and Aspect 01 degrees SW

HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	MZCL	10YR42 00	2	2	HR					Y
30- 42	MZCL	10YR52 53	0	50	CH				M	Y
42- 80	CH	10YR81 00	0	2	HR				P	Y

Wetness Grade 1 Wetness Class I
 Gleying cm
 SPL No SPL

Drought Grade 3A APW 101mm MBW -16 mm
 APP 100mm MBP -13 mm

FINAL ALC GRADE 3A
 MAIN LIMITATION Droughtiness

SOIL PIT DESCRIPTION

Site Name WESTWOOD COURT FARM GC Pit Number 5P

Grid Reference TR02305890 Average Annual Rainfall 697 mm
 Accumulated Temperature 1448 degree days
 Field Capacity Level 142 days
 Land Use Oilseed Rape
 Slope and Aspect degrees

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MZCL	10YR43 42	1		3	HR					Y
25- 56	MZCL	10YR43 00	0		5	HR		MDCSAB	FR	M	Y
56- 79	MZCL	10YR44 00	0		10	HR		WKCSAB	FR	M	Y
79- 89	CH	10YR81 00	0		5	HR				P	Y

Wetness Grade 1 Wetness Class I
 Gleying cm
 SPL No SPL

Drought Grade 3A APW 120mm MBW 3 mm
 APP 118mm MBP 5 mm

FINAL ALC GRADE 3A
 MAIN LIMITATION Droughtiness

SAMPLE NO	GRID REF	ASPECT USE	--WETNESS--		-WHEAT-		-POTS-		M REL		EROSN EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
			GRDNT	GLEY SPL	CLASS	GRADE	AP	MB	AP	MB					
1	TR01805950	OSR			1	1	150	23	118	5	2		DR	2	
1A	TR01755955	OSR W	02		1	1	112	-5	108	-5	3A		DR	3A	I65 Qlike 4P
1P	TR01805940	OSR SW	02		1	1	80	-37	82	-31	3B		DR	3B	At AB6
2	TR01905950	OSR			1	1	100	-17	99	-14	3A		DR	3A	I65 See 4P
2P	TR02405935	ORC			1	1	160	43	124	11	1			1	Near AB19
3	TR02005950	OSR			1	1	92	-25	98	-15	3B		DR	3B	I50 See 1P
3P	TR02105910	OSR W	02	039 053	2	2	130	13	123	10	2		WD	2	At AB31
4	TR02105950	PGR		042	1	1	101	-16	111	-2	3A		DR	3A	I68 See 5P
4P	TR02205900	OSR SW	01		1	1	101	-16	100	-13	3A		DR	3A	At AB38
5	TR02305950	ORC N	01	075	2	2	142	25	115	2	2		WD	2	S1 Gleyed 45
5A	TR01755935	OSR SW	05		1	1	77	-40	80	-33	3B		DR	3B	I30 See 1P
5P	TR02305890	OSR			1	1	120	3	118	5	3A		DR	3A	Roots 89cm
6	TR01805940	OSR SW	04		1	1	81	-36	85	-28	3B		DR	3B	I38 See 1P
7	TR01885942	OSR			1	1	107	-10	101	-12	3A		DR	3A	I55 See 4P
8	TR01985942	OSR E	03		1	1	119	2	113	0	3A		DR	3A	Roots 95
9	TR02105940	ORC W	01	030	2	2	76	-41	76	-37	3B		DR	3A	See 4p/5P
10	TR02205940	ORC N	01	055	1	1	120	3	115	2	3A		DR	3A	I70 chalk
11	TR02305940	ORC N	01	050	1	1	107	-10	116	3	3A		DR	3A	I75 See 5P
12	TR02405940	ORC			1	1	169	52	133	20	1			1	
13	TR02505940	PLO			1	1	171	54	135	22	1			1	
14	TR01905930	OSR W	01		1	1	100	-17	99	-14	3A		DR	3A	I60 See 4P
15	TR02005930	PGR S	01	055	1	1	158	41	121	8	2		DR	2	See 3P
16	TR02105930	HOR W	01	075 075	2	2	149	32	122	9	2		WD	2	See 3P
17	TR02205930	HOR W	01	055	1	1	113	-4	118	5	3A		DR	2	Q like 3P
18	TR02305930	ORC		030 055	3	2	142	25	118	5	2		WD	2	Calc
19	TR02405930	ORC			1	1	170	53	134	21	1			1	
20	TR02505930	PLO			1	1	169	52	133	20	1			1	
21	TR01905920	OSR SW	03		1	1	73	-44	76	-37	3B		DR	3B	I50 Roots 60
22	TR02005920	OSR SW	01	045 045	3	2	137	20	115	2	2		WD	2	See 3P
23	TR02105920	OSR W	01	055 055	2	2	124	7	116	3	2		WD	2	See 3P
24	TR02205920	OSR W	01	045 060	2	2	133	16	118	5	2		WD	2	I85 Roots 95
25	TR02305920	HOR N	01	065 065	2	2	145	28	120	7	2		WD	2	See 3P
26	TR02405920	HOR N	01	060 075	2	2	149	32	123	10	1		WD	2	
27	TR02505920	HOR N	01		1	1	173	56	137	24	1			1	
28	TR02605920	PLO N	01		1	1	160	43	124	11	1			1	
29	TR01905910	OSR W	01		1	1	115	-2	109	-4	3A		DR	3A	I65 See 4P
30	TR02005910	OSR			1	1	128	11	120	7	2		DR	2	I100 See 3P
31	TR02105910	OSR W	01	035 045	3	2	119	2	110	-3	3A		WD	2	I88 See 3P
32	TR02205910	OSR		040 040	3	2	122	5	114	1	2		WD	2	I90 Flin/Ch
33	TR02305910	HOR N	01		1	1	110	-7	103	-10	3A		DR	3A	I65 Q Chalk
34	TR02405910	HOR N	01		1	1	154	37	124	11	1			1	
35	TR02505910	HOR N	01	035	2	2	121	4	125	12	3A		WD	2	I80 FlintsPOSS

SAMPLE NO	GRID REF	ASPECT USE	GRDNT	--WETNESS--		-WHEAT-		-POTS-		M REL DRT	EROSN FLOOD	FROST EXP	FROST DIST	CHEM LIMIT	ALC	COMMENTS
				CLASS	GRADE	AP	MB	AP	MB							
36	TR02605910	PLO N	01		1	1	173	56	137	24	1				1	
37	TR02105900	OSR			1	1	90	-27	97	-16	38			DR	3A	I60 See 5P
38	TR02205900	OSR			1	1	98	-19	99	-14	3A			DR	3A	I50 See 4P
39	TR02305900	ORC		060	1	1	101	-16	114	1	3A			DR	3A	I60 See 5P
40	TR02405900	ORC		075 075	2	2	135	18	131	18	2			WD	2	I95 Flints
41	TR02505900	ORC			1	1	171	54	135	22	1				1	
42	TR02605900	PLO			1	1	174	57	137	24	1				1	
43	TR02105890	OSR W	02		1	1	111	-6	113	0	3A			DR	2	I80 Q chalk
43A	TR02155895	OSR W	01		1	1	74	-43	75	-38	38			DR	38	I55 See 1P
44	TR02205890	OSR W	01		1	1	86	-31	90	-23	38			DR	38	I50 See 1P
45	TR02305890	OSR			1	1	108	-9	118	5	3A			DR	3A	I65 See 4P
46	TR02405890	ORC			1	1	162	45	136	23	1				1	S1 Gleyed 50
47	TR02505890	ORC		080 080	1	1	168	51	141	28	1				1	Border 2
48	TR02105880	OSR SW	01	058 058	2	2	110	-7	120	7	3A			WD	2	I75 See 3P
49	TR02205880	OSR SW	01		1	1	105	12	105	-8	3A			DR	3A	I60 See 4P
50	TR02305880	OSR SW	01	045 055	2	2	113	-4	121	8	3A			DR	2	Q like 3P
51	TR02405880	ORC			1	1	85	-32	92	-21	38			DR	38	38 T/S ST
52	TR02505880	ORC			1	1	97	-20	984	-15	3A			DR	3A	I60 QLike 4P
53	TR02105870	OSR			1	1	159	42	123	10	1				1	
54	TR02205870	OSR SW	01		1	1	86	-31	89	-24	38			DR	38	I45 See 4P
55	TR02305870	OSR S	01	045	1	1	104	-13	107	-6	3A			DR	3A	I60 See 4P
56	TR02405870	OSR SW	01		1	1	104	-13	103	-10	3A			DR	3A	I65
57	TR02205860	OSR W	01		1	1	166	49	136	23	1				1	S1 Gleyed 55
58	TR02305860	OSR S	01		1	1	129	12	123	10	2			DR	2	Prob 1
59	TR02405860	OSR W	01		1	1	72	45	72	-41	38			DR	3A	I45 See 4P
60	TR02305850	OSR			1	1	173	56	137	24	1				1	

SAMPLE	DEPTH	TEXTURE	COLOUR	-----MOTTLES-----			PED	-----STONES-----			STRUCT/	SUBS	SPL	CALC	
				COL	ABUN	CONT		COL	GLE	>2					>6
1	0-30	mzc1	10YR43 00					3	0	HR	8			Y	
	30-60	mzc1	10YR54 00					0	0	HR	2	M		Y + 4% chalk	
	60-70	hzc1	10YR54 00					0	0	CH	10	M		Y + 2% flint	
	70-120	hzc1	10YR54 00					0	0	CH	25	M		Y + 2% flint	
1A	0-25	mzc1	10YR43 00					3	0	HR	8			Y	
	25-50	c	10YR44 00	75YR58 00 F			00MN00 00	0	0	HR	4	M		Y	
	50-65	hzc1	25Y 43 44					0	0	CH	50	M		Y Assume ch-90cm	
1P	0-34	mzc1	10YR43 00					4	0	HR	8			Y	
	34-57	ch	10YR81 64					0	0	HR	5	P		Y Roots to 57cm	
2	0-25	mzc1	10YR43 00					3	0	HR	8			Y	
	25-40	c	75YR46 00					0	0	HR	4	M		Y	
	40-50	mzc1	10YR43 64					0	0	CH	50	M		Y + 2% flint	
	50-80	ch	10YR81 64					0	0	HR	5	P		Y Roots to at 80cm+	
2P	0-28	mzc1	10YR42 00					0	0	HR	2			Y	
	28-78	mzc1	75YR44 00					0	0		0	MDCAB FR M		Y	
	78-120	mzc1	10YR56 00				10YR44 00	0	0		0	MDCSAB FR M		Y	
3	0-25	mzc1	10YR43 00					4	1	HR	8			Y	
	25-45	mzc1	10YR54 00					0	0	CH	30	M		Y	
	45-70	ch	10YR81 00					0	0	HR	5	P		Y Imp 50	
3P	0-28	mzc1	10YR43 00					1	0	HR	2			Y	
	28-39	mzc1	10YR44 00				75YR44 00	0	0	HR	2	MDCSAB FR M		Y	
	39-53	hzc1	10YR44 00	10YR58 00 C			10YR44 00 S	0	0		0	MDCSAB FR M		Y	
	53-71	hzc1	25Y 62 44	10YR58 00 M			10YR44 00 Y	0	0		0	MDCAB FR M	Y	Y	
	71-85	hc1	05Y 42 00	10YR58 00 M				Y	0	0	HR	5	MDCAB FR M	Y	Y
	85-95	ch	10YR81 00						0	0	HR	5	P	Y	Y
4	0-25	mzc1	10YR42 00					3	0	HR	8			Y	
	25-42	mzc1	10YR43 00					0	0	HR	5	M		Y	
	42-68	hc1	05Y 52 00	10YR66 00 C				Y	0	0	HR	5	M	Y Imp flints	
4P	0-30	mzc1	10YR42 00					2	0	HR	2			Y	
	30-42	mzc1	10YR52 53					0	0	CH	50	M		Y	
	42-80	ch	10YR81 00					0	0	HR	2	P		Y Roots to 80cm+	
5	0-25	mzc1	10YR42 00					2	0	HR	8			Y	
	25-45	hzc1	10YR54 00	10YR56 00 F				0	0	HR	5	M		Y	
	45-75	hzc1	10YR54 00	10YR58 00 C				S	0	0	HR	10	M	Y	
	75-95	zc	75YR44 00	10YR53 00 C			00MN00 00 S	0	0	HR	5	M		Y	
	95-120	mzc1	10YR64 81					0	0	CH	50	M		Y + 5% flint	
5A	0-28	mzc1	25Y 53 00					4	0	CH	15			Y	
	28-60	ch	10YR81 00					0	0	HR	5	P		Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	--- MOTTLES ---			PED COL	--- STONES ---			STRUCT/ CONSIST	SUBS STR FOR IMP	SPL	CALC
				COL	ABUN	CONT		GLE	>2	>6				
5P	0-25	mzc1	10YR43 42					1	0	HR	3			Y
	25-56	mzc1	10YR43 00					0	0	HR	5	MDCSAB FR M		Y
	56-79	mzc1	10YR44 00					0	0	HR	10	WKCSAB FR M		Y
	79-89	ch	10YR81 00					0	0	HR	5	P		Y
6	0-32	mzc1	10YR43 00					4	0	HR	8			Y
	32-62	ch	10YR81 00					0	0	HR	5	P		Y
7	0-30	mzc1	10YR43 00					5	0	HR	8			Y
	30-55	mzc1	10YR64 54					0	0	CH	50	M		Y Imp chalk
8	0-30	mzc1	10YR42 00					1	0	CH	5			Y + 2% flints
	30-38	mzc1	10YR43 00					0	0	CH	20	M		Y
	38-52	mzc1	10YR53 00					0	0	CH	65	M		Y V friable
	52-70	hzc1	10YR54 00					0	0	CH	20	M		Y friable
	70-80	hzc1	10YR54 00					0	0	CH	50	M		Y friable
	80-100	ch	10YR81 00					0	0	HR	5	P		Y
9	0-30	mzc1	10YR41 42						0	0	HR	5		Y + 5% chalk
	30-45	hzc1	25Y 42 00	10YR46 00 C			00MN00 00 Y	0	0	CH	10	M		Y I chalk +5% HR
10	0-25	mzc1	10YR42 00					1	0	HR	5			Y
	25-55	hzc1	05Y 42 52	10YR58 00 F				0	0	HR	5	M		Y
	55-65	hzc1	05Y 42 52	10YR58 00 C			00MN00 00 Y	0	0	HR	5	M		Y
	65-95	ch	10YR81 00				Y	0	0	HR	5	P		Y
11	0-25	mzc1	10YR42 00					2	0	HR	8			Y
	25-50	mzc1	10YR44 54					0	0	HR	5	M		Y
	50-65	hzc1	10YR54 52	10YR56 00 C			Y	0	0	HR	5	M		Y
	65-75	hzc1	10YR54 52	10YR56 00 C			Y	0	0	HR	15	M		Y Imp flints
12	0-28	z1	10YR42 52					0	0	HR	3			Y
	28-45	mzc1	10YR52 00					0	0	HR	2	M		Y
	45-70	mzc1	10YR54 00	10YR58 00 F			00MN00 00	0	0		0	M		Y
	70-120	mzc1	10YR52 54	10YR58 00 F			00MN00 00	0	0		0	M		Y
13	0-28	z1	10YR42 00					0	0	HR	2			Y
	28-65	mzc1	10YR44 54	10YR58 00 F				0	0		0	M		Y
	65-120	mzc1	10YR52 54	10YR58 00 F			00MN00 00	0	0		0	M		Y
14	0-30	mzc1	10YR42 00					2	0	HR	2			Y
	30-55	mzc1	10YR53 00					0	0	CH	80	M		Y
	55-80	ch	10YR81 00					0	0	HR	2	P		Y
15	0-30	mzc1	10YR32 00					0	0	HR	2			Y
	30-55	mzc1	10YR53 54					0	0	HR	2	M		Y
	55-120	hc1	10YR53 00	10YR56 00 C			00MN00 00 Y	0	0	HR	2	M		Y

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED COL	----STONES----				STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN	CONT		GLE	>2	>6	LITH		TOT	STR	POR		IMP
16	0-28	mzc1	10YR32 42					0	0	HR	2					Y	
	28-40	mzc1	10YR54 00					0	0	HR	2		M			Y	
	40-75	hzc1	10YR54 00 10YR58 00 C					S	0	0	HR	2		M			
	75-120	c	25 Y53 00 10YR58 00 C					Y	0	0	HR	2		M		Y	S1 sandy
17	0-30	mzc1	10YR42 00					0	0	HR	2					Y	
	30-55	mzc1	10YR52 53					0	0	HR	2		M			Y	
	55-60	c	10YR52 00 10YR56 00 C					Y	0	0	HR	2		M		Y	
	60-80	c	05 Y52 00					Y	0	0	CH	50		M		Y	+ 2% flint
18	0-30	mzc1	10YR42 00					4	0	HR	8					Y	
	30-55	mzc1	10YR53 00 10YR66 00 C					Y	0	0	HR	2		M		Y	
	55-80	c	10YR53 00 10YR66 00 C					Y	0	0	HR	2		M		Y	Firm
	80-120	c	25Y 52 00 75YR68 00 C					Y	0	0	HR	2		M		Y	V firm
19	0-30	z1	10YR42 00					1	0	HR	5						
	30-55	mzc1	10YR44 54					0	0		0		M				
	55-120	mzc1	10YR54 64 10YR58 00 F				00M00 00	0	0		0		M				
20	0-25	z1	10YR42 00					0	0	HR	2						
	25-55	mzc1	10YR44 54					0	0		0		M				
	55-120	mzc1	10YR54 64 10YR56 00 F				00M00 00	0	0		0		M				
21	0-20	mzc1	10YR42 00					5	0	CH	12					Y	+12% chalk
	20-30	mzc1	10YR43 00					0	0	CH	50		M		Y	+2% flint	
	30-60	ch	10YR81 00					0	0	HR	5		P		Y		
22	0-28	mzc1	10YR42 00					0	0	HR	2					Y	
	28-45	hzc1	10YR54 00 10YR58 00 F					0	0	HR	2		M			Y	
	45-55	c	25 Y52 00 10YR58 00 C					Y	0	0	HR	2		M		Y	S1 Sandy
	55-120	c	25 Y53 00 10YR68 00 C				25 Y62 00 Y	0	0	HR	2		P		Y	Y	
23	0-30	mzc1	10YR42 00					2	0	HR	5					Y	
	30-55	hzc1	10YR54 00 10YR66 00 F					0	0	HR	1		M			Y	
	55-70	c	05Y 52 00 10YR66 00 C				00M00 00 Y	0	0	HR	1		P		Y	Y	V firm
	70-80	c	25Y 52 00 10YR66 00 M				00M00 00 Y	0	0	HR	1		P		Y	Y	V firm
	80-100	ch	10YR81 00					Y	0	0	HR	5		P		Y	Y
24	0-30	mzc1	10YR32 00					0	0	HR	2					Y	
	30-45	hzc1	10YR54 00					0	0	HR	5		M				
	45-60	hc1	10YR54 00 10YR56 00 C					S	0	0	HR	5		M			
	60-80	c	10YR54 00 10YR58 00 C				00M00 00 S	0	0	HR	5		M		Y	Y	
	80-110	ch	10YR81 00					S	0	0	HR	2		P		Y	
25	0-30	mzc1	10YR32 00					2	0	HR	3					Y	
	30-40	mzc1	10YR53 00					0	0	HR	2		M			Y	
	40-55	hc1	10YR53 00 10YR56 00 F					0	0	HR	2		M				
	55-65	c	25 Y54 00					0	0		0		M				not gley/not Spl
	65-120	c	25 Y53 00 10YR58 00 C				25 Y62 00 Y	0	0		0		M		Y		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----		PED	----STONES----			STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN		CONT	COL	GLE		>2	>6	LITH		TOT
26	0-30	mzc1	10YR42 00					0	0	HR	2				Y
	30-60	mzc1	10YR43 00					0	0	HR	2	M			Y
	60-75	hzc1	10YR54 00	10YR58 00 C		10YR62 00 S		0	0	HR	2	M			Y
	75-120	c	10YR54 00	10YR58 00 C		10YR62 00 S		0	0	HR	2	M		Y	Y
27	0-32	z1	10YR43 00					0	0	HR	1				Y
	32-50	mzc1	10YR54 00					0	0	HR	1	M			Y
	50-120	hzc1	10YR54 00					0	0		0	M			Y
28	0-27	mzc1	10YR42 00					0	0		0				Border ZL
	27-45	mzc1	10YR44 00					0	0		0	M			
	45-120	hzc1	10YR44 54					0	0		0	M			
29	0-30	mzc1	10YR42 00					3	0	HR	5				Y
	30-58	hzc1	10YR44 00					0	0	HR	8	M			Y + 2% flint
	58-88	ch	10YR81 00					0	0	HR	5	P			Y
30	0-30	mzc1	10YR42 00					3	0	HR	6				Y
	30-40	mzc1	10YR56 46					0	0	HR	1	M			Y
	40-60	hzc1	10YR56 46					0	0	HR	1	M			Y
	60-75	c	75YR54 00	10YR58 00 F		00MN00 00		0	0	HR	1	M			Y
	75-85	mzc1	10YR54 00					0	0	CH	50	M			Y
	85-100	ch	10YR81 00					0	0	HR	5	P			Y
31	0-25	mzc1	10YR42 00					3	0	HR	5				Y
	25-35	mzc1	10YR43 00					0	0	HR	2	M			Y
	35-45	hzc1	10YR64 00	10YR68 00 C			Y	0	0	HR	2	M			Y Friable
	45-55	zc	10YR64 00	10YR68 00 C		00MN00 00	Y	0	0	HR	2	P		Y	Y V firm
	55-85	c	05Y 64 00	10YR68 00 C		00MN00 00	Y	0	0	HR	2	P		Y	Y V firm
	85-100	ch	10YR81 00				Y	0	0	HR	5	P			Y
32	0-30	mzc1	10YR42 00					1	0	HR	2				Y
	30-40	mzc1	25Y 43 00					0	0	HR	2	M			Y
	40-60	c	25Y 64 00	10YR68 00 C			Y	0	0	HR	1	P		Y	Y Firm
	60-90	hc1	25Y 64 00	75YR68 00 M		00MN00 00	Y	0	0	HR	1	M		Y	Y Imp Q Chalk
33	0-30	mzc1	10YR42 00					4	0	HR	6				Y
	30-40	mzc1	10YR43 00					0	0	HR	5	M			Y
	40-65	mzc1	10YR64 00					0	0	CH	80	M			Y
	65-90	ch	10YR81 00					0	0	HR	2	P			Y Imp 65
34	0-30	mzc1	10YR42 00					1	0	HR	1				Y
	30-55	mzc1	10YR54 00					0	0		0	M			Y
	55-90	hzc1	10YR54 00					0	0		0	M			Y
	90-120	c	10YR54 00	00MN00 00 C				0	0		0	M			Y
35	0-35	mzc1	10YR42 00					0	0	HR	1				Y
	35-50	mzc1	10YR53 54	10YR58 00 C			Y	0	0		0	M			Y
	50-80	mzc1	10YR53 00				Y	0	0		0	M			Y Imp flints

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED		----STONES----			STRUCT/ CONSIST	SUBS		SPL	CALC
				COL	ABUN	CONT	COL	GLE	>2	>6	LITH		TOT	STR		
36	0-32	z1	10YR43 00						0	0	HR	1				
	32-48	mzc1	10YR44 54						0	0		0		M		
	48-80	hzc1	10YR54 00	10YR56 00 F			00M00 00		0	0		0		M		
	80-120	mzc1	10YR54 00	00M00 00 F					0	0		0		M		
37	0-30	mzc1	10YR43 00						4	0	HR	6				Y
	30-60	c	10YR44 00						0	0	HR	10		M		Y Imp flints
38	0-35	mzc1	10YR42 00						4	0	HR	6				Y + 5% chalk
	35-50	mzc1	25Y 54 00						0	0	CH	50		M		Y + 5% flints
	50-76	ch	10YR81 00						0	0	HR	5		P		Y Imp chalk 50cm
39	0-30	mzc1	10YR43 00						4	0	HR	8				Y
	30-40	mzc1	10YR44 00						0	0	HR	2		M		Y
	40-60	hzc1	10YR54 00						0	0	HR	5		M		
	60-70	c	25Y 54 00	75YR46 00 C			00M00 00 Y		0	0	HR	10		P		Y Imp flints
40	0-30	z1	10YR43 00						3	0	HR	5				
	30-60	mzc1	10YR54 00						0	0	HR	2		M		
	60-75	c	10YR54 00						0	0	HR	2		M		Not gley/not SPL
	75-95	c	10YR53 00	10YR66 00 C				Y	0	0	HR	10		M	Y	Imp flints
41	0-30	z1	10YR43 00						0	0	HR	2				
	30-45	mzc1	10YR43 00						0	0	HR	2		M		
	45-55	hzc1	10YR54 00	75YR58 00 C			00ZZ00 00 S		0	0		0		M		
	55-120	hzc1	10YR54 00						0	0		0		M		
42	0-35	z1	10YR43 00						0	0	HR	2				
	35-45	mzc1	10YR43 00						0	0	HR	2		M		
	45-75	mzc1	10YR44 00						0	0	CH	5		M		
	75-120	mzc1	10YR54 00				00M00 00		0	0		0		M		Y
43	0-28	mzc1	10YR43 00						0	0	HR	2				
	28-40	zc	10YR44 00						0	0		0		M		
	40-53	zc	10YR44 32						0	0		0		M		
	53-80	mzc1	10YR43 81						0	0	CH	50		M		Y Assume Ch 95
43A	0-30	mzc1	10YR43 00						1	0	HR	10				Y
	30-55	ch	10YR81 00						0	0	HR	5		P		Y Hard chalk
44	0-25	mzc1	10YR43 00						2	0	HR	5				Y
	25-38	hzc1	10YR54 56	00M00 00 F					0	0	HR	5		M		Y
	38-63	ch	10YR81 00						0	0	HR	5		P		Y
45	0-20	z1	10YR42 00						0	0	HR	2				Y
	20-35	mzc1	10YR43 00						0	0	HR	2		M		Y
	35-50	mzc1	10YR43 00						0	0	HR	5		M		Y
	50-65	hzc1	25Y 42 00				00M00 00		0	0	HR	10		M		Y Imp flints

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----		PED	----STONES----			STRUCT/ CONSIST	SUBS									
				COL	ABUN		CONT	COL	GLE		>2	>6	LITH	TOT	STR	POR	IMP	SPL	CALC	
46	0-35	z1	10YR43 00						2	0	HR	4								
	35-50	mzc1	10YR43 44						0	0	HR	2		M						
	50-70	hzc1	10YR44 00	10YR56 00	C	00M00	00	S	0	0	HR	2		M				Y	+5% CH 1n H3	
	70-120	mzc1	25Y 54 00	10YR56 00	C			S	0	0	CH	50		M				Y	I105 assume120	
47	0-35	z1	10YR42 00						2	0	HR	4								
	35-45	z1	10YR43 00						0	0	HR	2		M						
	45-60	mzc1	10YR54 00						0	0	HR	2		M						
	60-80	hzc1	10YR54 00						0	0	HR	2		M						
	80-105	c	10YR54 00	10YR56 00	C	00M00	00	S	0	0	HR	2		M				Y		
	105-120	mzc1	10YR54 00						0	0	CH	50		M				Y	Y	+ 5% flint
48	0-30	mzc1	10YR42 00						0	0	HR	3								
	30-45	mzc1	10YR54 00						0	0	HR	2		M						
	45-58	hzc1	10YR53 54	10YR58 00	F	00M00	00		0	0	HR	2		M						
	58-70	c	10YR53 00	75YR56 00	C	00M00	00	Y	0	0	HR	5		M				Y		
	70-75	c	10YR53 00	75YR56 00	C	00M00	00	Y	0	0	CH	10		M				Y	Y	Imp flints
49	0-30	mzc1	10YR42 00						3	0	HR	3							Y	
	30-40	mzc1	10YR54 00						0	0	CH	70		M					Y	
	40-55	hc1	05 Y52 53						0	0	CH	10		M					Y	
	55-80	ch	10YR81 00						0	0	HR	2		P					Y	
50	0-32	mzc1	10YR42 00						2	0	HR	2								
	32-45	hzc1	10YR54 56	75YR56 00	F				0	0	HR	2		M						
	45-55	c	10YR53 00	75YR58 00	C	10YR62	00	Y	0	0	HR	2		M					Friable	
	55-75	c	10YR53 00	75YR58 00	C	10YR62	00	Y	0	0	HR	2		M				Y		
	75-80	c	05 Y62 00	75YR56 00	C	00M00	00	Y	0	0	HR	2		M				Y	Imp flints	
51	0-30	mzc1	10YR43 00						20	15	HR	25								
	30-60	hzc1	10YR54 00						0	0	HR	5		M					Imp flints	
52	0-30	mzc1	10YR42 00						6	0	HR	10							Y	+10% flint
	30-40	mzc1	10YR43 00						0	0	CH	20		M					Y	+10% flint
	40-60	mzc1	10YR54 00						0	0	CH	50		M					Y	IQ ch+5% flint
53	0-30	mzc1	10YR42 00						0	0	HR	2								
	30-120	mzc1	10YR44 00						0	0	HR	1		M						
54	0-35	mzc1	10YR42 00						0	0	HR	3							Y	
	35-60	ch	10YR81 00						0	0	HR	2		P					Y	
55	0-30	mzc1	10YR42 00						2	0	HR	3							Y	
	30-45	hzc1	10YR53 00	10YR58 00	F	00M00	00		0	0	HR	5		M					Y	
	45-50	c	10YR52 00	75YR56 00	C			Y	0	0	HR	5		M					Y	
	50-75	ch	10YR81 00					Y	0	0	HR	2		P					Y	
56	0-30	mzc1	10YR42 00						0	0	HR	2							Y	+ 2% Chalk
	30-40	hzc1	10YR43 54						0	0	HR	2		M					Y	
	40-55	hzc1	10YR54 00						0	0	CH	80		M					Y	
	55-80	ch	10YR81 00						0	0	HR	5		P					Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----		PED	-----STONES-----			STRUCT/ CONSIST	SUBS			SPL	CALC
				COL	ABUN		CONT	COL	GLE		>2	>6	LITH		
57	0-30	z1	10YR42 00						0	0	HR	1			Y
	30-55	mzc1	10YR44 54						0	0		0	M		Y
	55-75	hzc1	10YR54 56	75YR56 00 C		00M00 00 S			0	0		0	M		Y
	75-120	mzc1	25 Y73 00						0	0	CH	50	M		Y
58	0-28	mzc1	10YR43 00						0	0	HR	1			
	28-70	mzc1	10YR44 54						0	0	HR	2	M		
	70-90	hzc1	10YR54 00						0	0		0	M		I Q 1Xflint
59	0-29	mzc1	10YR42 00						3	0	HR	3			Y
	29-45	mzc1	10YR63 00						0	0	CH	80	M		Y I chalk/flints
60	0-33	z1	10YR43 00						0	0	HR	1			Y
	33-120	mzc1	10YR44 54						0	0	HR	1	M		