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**Wokingham District Local Plan**  
**Sites SH02, SH07, SH09, SH10, SH19, SH20**  
**and SH21 - Spencers Wood, Berkshire.**  
**Agricultural Land Classification**  
**ALC Map and Report**  
**May 1996**

**Resource Planning Team**  
**Guildford Statutory Group**  
**ADAS Reading**

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# AGRICULTURAL LAND CLASSIFICATION REPORT

## WOKINGHAM DISTRICT LOCAL PLAN SITES SH02, SH07, SH09, SH10, SH19, SH20, SH21 - SPENCERS WOOD, BERKSHIRE.

### Introduction

1. This report presents the findings of a semi-detailed Agricultural Land Classification (ALC) survey of 179.7 hectares of land to the east and west of Spencers Wood near Wokingham in Berkshire. The survey was carried out during January 1996.
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 the Wokingham District Local Plan. Parts of this site were surveyed in 1988 under the previous ALC guidelines (MAFF, 1977). However the results of this, more recent, survey supersede any previous ALC information for this land.
3. The work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS. 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 was in permanent grass. The remaining areas were under winter cereals, these were concentrated towards the west of the site. The areas shown as 'Other Land' include woodland, tracks and roads, open water, dwellings with gardens, farm buildings and associated land, an area of disused allotment gardens, an area used for dumping building waste and a caravan park. The 'Not Surveyed' areas to the east of the site were not entered as either the owners could not be contacted or they did not wish the survey to be carried out.

### Summary

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:15,000. 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 overleaf.
7. The fieldwork was conducted at an average density of approximately 1 boring every 2 hectares. A total of 98 borings and seven soil pits were described.
8. The majority of the agricultural land at this site has been classified as Subgrade 3a (good quality) and Subgrade 3b (moderate quality) on the basis of both soil wetness and soil droughtiness limitations. A small area to the south of the site is shown as Grade 4 (poor quality) on the basis of a microrelief limitation due to the fact that this area has been disturbed at some time.

9. Where Subgrade 3a and the majority of the Subgrade 3b has been mapped, soil wetness is the principal limitation throughout the site. In these areas medium loam topsoils and upper subsoils overlie gleyed and slowly permeable clay horizons at shallow and moderate depths in the profile. The slowly permeable horizons cause drainage to be impeded such that land utilisation is restricted. The depth at which these horizons occur determines the severity of the soil wetness restrictions and therefore the ALC grade.

10. Where Subgrade 3b is shown to the east of Wellington Court (around SU 713 670) and south of Croft Road ( around SU 725 667), the principal limitation is soil droughtiness. Moderately to very stony medium and light loam soils overlie gravelly horizons at moderate depths in the profile. The stones in the profile cause a reduction in available water leading to a risk of droughtiness affecting plant growth and yield.

11. Towards the south of the site, Grade 4 has been mapped on the basis of microrelief and disturbance limitations. This area of the site is currently in a state whereby most mechanised operations are not feasible and as such it is only suited to permanent grazing. The area appears to have been quarried at some point in the past, which has led it having a shallow soil resource over some form of backfill. As such it has been classified as being of poor quality.

**Table 1: Area of grades and other land**

Grade/Other Land	Area (hectares)	% Total Site Area	% Agricultural Land
3a	64.1	35.7	45.0
3b	77.4	43.1	54.4
4	0.9	0.5	0.6
Other Land	24.5	13.6	N/A
Not Surveyed	12.8	7.1	N/A
Total Agricultural Area	142.4		100.0
Total Site Area	179.7	100.0	

### Climate

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

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

**Table 2: Climatic and altitude data**

Factor	Units	Values		
Grid reference	N/A	SU 712 677	SU 722 670	SU 711 660
Altitude	m, AOD	45	50	65
Accumulated Temperature	day°C	1474	1468	1452
Average Annual Rainfall	mm	665	668	674
Field Capacity Days	days	139	139	140
Moisture Deficit, Wheat	mm	114	114	111
Moisture Deficit, Potatoes	mm	109	108	104

14. 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.

15. 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.

16. The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. Other local climatic factors such as exposure and frost risk are also believed not to affect the site. The site is climatically Grade 1.

### Site

17. The site lies at altitudes in the range 43-66 m AOD. The central area of the site, around Stanbury Park (SU 711 670) is in the form of a plateau. The land falls away in all directions from this area. To the north and west slopes are moderate, whilst those to the south and east are gentle. The lowest lying land is in the north of the site where the land flattens out at around 45m AOD. Nowhere on the site are slopes significant in terms of land quality.

### Geology and soils

18. The published geological information for the site (BGS, 1971), shows the site to be underlain by London Clay, plateau gravel and valley gravel. The plateau gravel drift deposits are shown on the plateau around Stanbury Park (SU 711 670) in the west of the site and in a small area to the east near the playing field at SU 718 673. The valley gravels are mapped towards the east of the site, from approximately Wilders Grove Farm (SU 722 671) to the edge of the site. The remaining areas are shown as London Clay.

19. The most detailed published soils information for the site (SSEW, 1983 and 1984) shows the site to comprise soils of the Wickham 4 and Hurst associations. Wickham 4 soils are described as, 'slowly permeable seasonally waterlogged fine loamy over clayey and fine silty over clayey soils associated with similar clayey soils, often with brown subsoils.' (SSEW, 1983). Soils of this broad type were found across the site approximately where London Clay is shown on the geology map. Hurst soils are described as, 'coarse and fine loamy permeable

soils mainly over gravel variably affected by groundwater.' (SSEW, 1983). Soils of this broad type were found approximately where valley gravel and plateau gravel drift deposits are shown on the geology map to the central west and east of the site.

### **Agricultural Land Classification**

20. 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.

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

#### *Subgrade 3a*

22. Land of good quality has been mapped in a total of four mapping units across the site. The principal limitation to land quality in these areas is soil wetness, although soil droughtiness is equally limiting in a number of cases.

23. The most common limitation on land assigned to this subgrade at this site is soil wetness. Soils in these areas commonly comprise a stoneless to very slightly stony (up to 5% v/v total flints), occasionally gleyed medium clay loam or medium silty clay loam topsoil, passing to a similarly stony, commonly gleyed, medium clay loam, heavy clay loam or sandy clay loam upper subsoil. In the majority of cases these horizons pass to a stoneless to very slightly stony (up to 5% v/v total flints), gleyed and slowly permeable clay to depth, as seen in the pit observations 4p and 5p. In some cases (eg, the pit observation 7p), the clay horizon passes to a further moderately stony (up to 20% v/v total flints) clay layer, which was either impenetrable to the soil auger and spade or overlay a very stony (up to 60% v/v total flints) sandy clay loam which was impenetrable to the soil auger. These observations are also limited by soil droughtiness to Subgrade 3a.

24. Slowly permeable horizons have the effect of restricting water flow through the soil profile causing drainage to be impeded. The depth at which these horizons occur in combination with the local climate leads to Wetness Class III being appropriate to such soils and subsequently Subgrade 3a has been applied, given the workability status of the topsoil textures encountered. Soil wetness affects plant growth and yield as well as restricting land utilisation in terms of the number of days when machinery cultivations and grazing by livestock can occur without causing structural damage to the soil. Occasional observations in this area were of a slightly better quality, but these were of too scattered a distribution to be shown as separate mapping units.

#### *Subgrade 3b*

25. Land of moderate quality has been mapped over the site in a total of four mapping units. Principal limitations to land quality include soil wetness and soil droughtiness.

26. The majority of the area mapped as being of Subgrade 3b quality at this site is affected by soil wetness. Soils here commonly comprise a stoneless to very slightly stony (up to 8% v/v total flints, 2% > 2cm), commonly gleyed, medium or heavy clay loam, occasionally medium silty clay loam topsoil. This commonly passes to a narrow, similarly stony, gleyed

medium or heavy clay loam upper subsoil which passes to a stoneless or very slightly stony (up to 5% v/v total flints) gleyed and slowly permeable clay lower subsoil horizon. The pit observation, 2p, is representative of this soil type, except that the upper subsoil in common with a number of the other observations in these areas of the site was not present. The slowly permeable clays restrict water flow through the soil profile so causing drainage to be impeded to the extent that Wetness Class IV and Subgrade 3b is appropriate on this land given the local climate and the workability status of the topsoils. Soil wetness affects plant growth and yield as well as restricting land utilisation in terms of the number of days when machinery cultivations and grazing by livestock can occur without causing structural damage to the soil. Occasional observations in these areas were of a slightly better quality, but these were of too scattered a distribution to be shown as separate mapping units.

27. The 3b areas affected by soil droughtiness are concentrated to the east of Wellington Court (SU 713 670) and south of Croft Road (SU 725 667). Soils in these areas are commonly variable, comprising a slightly to moderately stony (up to 15% v/v total flints, including up to 8% >2cm) medium clay loam, medium sandy silt loam, occasionally sandy clay loam topsoil. This passes to a moderately stony (20-30% total v/v flints), occasionally gleyed, medium clay loam, sandy clay loam, medium sandy loam or medium sandy silt loam upper subsoil. These horizons overlie an impenetrable (to the soil auger), gravelly (up to 65% v/v small flints), sandy clay loam, medium sandy silt loam or medium sandy loam lower subsoil which was commonly saturated at the time of survey. The pit observations 1p and 6p are representative of this soil type. Occasional observations in this soil type were of slightly better quality, due to a greater soil depth over the gravelly horizons, but these were of too scattered a distribution to be mapped separately. The stones in the profile cause the water holding capacity of the soil profile to be reduced to the extent that, in the local climate Subgrade 3b is appropriate. Soil droughtiness restricts crop establishment, growth and yield.

#### *Grade 4*

28. Land of poor quality has been mapped in a single mapping unit towards the south of the site. The principal limitation to land quality in this area is microrelief and a lack of soil resource due to the fact that it appears to have been disturbed at some point in the past. This means that the majority of mechanical operations are not feasible and as such it is best suited to permanent grazing and therefore Grade 4 is appropriate.

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## SOURCES OF REFERENCE

British Geological Survey (1971) *Sheet 268, Reading. 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.*  
Met. Office: Bracknell.

Soil Survey of England and Wales (1983) *Soils of South East England. 1:250 000 Scale.*  
SSEW: Harpenden.

Soil Survey of England and Wales (1984) *Soils of South East England. Bulletin No. 15.*  
SSEW: Harpenden.

## APPENDIX I

### 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.



## APPENDIX II

### SOIL WETNESS CLASSIFICATION

#### Definitions of Soil Wetness Classes

Soil wetness is classified according to the depth and duration of waterlogging in the soil profile. Six soil wetness classes are identified and are defined in the table below.

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Wetness Class	Duration of waterlogging <sup>1</sup>
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years. <sup>2</sup>
II	The soil profile is wet within 70 cm depth for 31-90 days in most years or, if there is no slowly permeable layer within 80 cm depth, it is wet within 70 cm for more than 90 days, but only wet within 40 cm depth for 30 days in most years.
III	The soil profile is wet within 70 cm depth for 91-180 days in most years or, if there is no slowly permeable layer present within 80 cm depth, it is wet within 70 cm for more than 180 days, but only wet within 40 cm depth for between 31-90 days in most years.
IV	The soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years or, if there is no slowly permeable layer present within 80 cm depth, it is wet within 40 cm depth for 91-210 days in most years.
V	The soil profile is wet within 40 cm depth for 211-335 days in most years.
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years.

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#### Assessment of Wetness Class

Soils have been allocated to wetness classes by the interpretation of soil profile characteristics and climatic factors using the methodology described in *Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land* (MAFF, 1988).

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<sup>1</sup> The number of days is not necessarily a continuous period.

<sup>2</sup> 'In most years' is defined as more than 10 out of 20 years.

## **APPENDIX III**

### **SOIL DATA**

#### **Contents:**

**Sample location map**

**Soil abbreviations - Explanatory Note**

**Soil Pit Descriptions**

**Soil boring descriptions (boring and horizon levels)**

**Database Printout - Horizon Level Information**

## 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.

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

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

## Soil Pits and Auger Borings

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

<b>S:</b> Sand	<b>LS:</b> Loamy Sand	<b>SL:</b> Sandy Loam
<b>SZL:</b> Sandy Silt Loam	<b>CL:</b> Clay Loam	<b>ZCL:</b> Silty Clay Loam
<b>ZL:</b> Silt Loam	<b>SCL:</b> Sandy Clay Loam	<b>C:</b> Clay
<b>SC:</b> Sandy Clay	<b>ZC:</b> Silty Clay	<b>OL:</b> Organic Loam
<b>P:</b> Peat	<b>SP:</b> Sandy Peat	<b>LP:</b> Loamy Peat
<b>PL:</b> Peaty Loam	<b>PS:</b> Peaty Sand	<b>MZ:</b> 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:

<b>F:</b> Fine (more than 66% of the sand less than 0.2mm)
<b>M:</b> Medium (less than 66% fine sand and less than 33% coarse sand)
<b>C:</b> 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.

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

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



SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 1P

Grid Reference: SU71106710 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Permanent Grass  
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 26	MCL	10YR42 00	4	10	HR	C				
26- 55	SCL	10YR62 00	0	30	HR	C	MDMSAB	FR	G	
55- 72	MSL	10YR62 00	0	62	HR	C			M	
72-120	GH	00ZZ00 00	0	0					P	

Wetness Grade : 2 Wetness Class : II  
 Gleying : 0 cm  
 SPL : cm

Drought Grade : 3B APW : 90mm MBW : -24 mm  
 APP : 89mm MBP : -20 mm

FINAL ALC GRADE : 3B  
 MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 2P

Grid Reference: SU71106730 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Permanent Grass  
 Slope and Aspect : 2 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MCL	10YR42 00	2	8	HR	C				
25- 45	C	10YR53 00	0	10	HR	M	WK CAB	FM	P	
45- 65	C	10YR62 00	0	0		M	MDCAB	FM	P	

Wetness Grade : 3B Wetness Class : IV  
 Gleying : 0 cm  
 SPL : 25 cm

Drought Grade : APW : mm MBW : 0 mm  
 APP : mm MBP : 0 mm

FINAL ALC GRADE : 3B  
 MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 3P

Grid Reference: SU71356739 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Permanent Grass  
 Slope and Aspect : 2 degrees N

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 27	MCL	10YR42 00	0	2	HR					
27- 48	MSL	10YR52 00	0	0		M	MDCSAB	FR	M	
48- 60	MSZL	10YR63 00	0	0		M	WKCSAB	FR	G	
60-120	MCL	10YR53 00	0	0		M	WKCAB	FM	P	

Wetness Grade : 3A Wetness Class : III  
 Gleying : 27 cm  
 SPL : 60 cm

Drought Grade : 2 APW : 138mm MBW : 24 mm  
 APP : 114mm MBP : 6 mm

FINAL ALC GRADE : 3A  
 MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 4P

Grid Reference: SU70606640 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Ley  
 Slope and Aspect : 2 degrees SW

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MCL	10YR42 00	0	1	HR					
28- 45	HCL	10YR53 00	0	2	HR	C	MDCSAB	FR	M	
45- 65	C	10YR62 00	0	5	HR	M	MDCAB	FM	P	

Wetness Grade : 3A Wetness Class : III  
 Gleying : 28 cm  
 SPL : 45 cm

Drought Grade : APW : mm MBW : 0 mm  
 APP : mm MBP : 0 mm

FINAL ALC GRADE : 3A  
 MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 5P

Grid Reference: SU71206640 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Permanent Grass  
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MCL	10YR42 00	0	2	HR	F				
28- 49	HCL	10YR71 00	0	0		M	MDCSAB	FR	M	
49- 76	C	25Y 71 00	0	0		M	STCAB	FM	P	

Wetness Grade : 3A Wetness Class : III  
 Gleying : 28 cm  
 SPL : 49 cm

Drought Grade : APW : mm MBW : 0 mm  
 APP : mm MBP : 0 mm

FINAL ALC GRADE : 3A  
 MAIN LIMITATION : Wetness

SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 6P

Grid Reference: SU72506670 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Permanent Grass  
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 24	MCL	10YR41 42	3	8	HR					
24- 42	MCL	10YR42 41	0	20	HR	C	MDCSAB	FR	M	
42- 60	MCL	10YR43 00	0	65	HR				P	
60-120	GH	00ZZ00 00	0	0					P	

Wetness Grade : 2 Wetness Class : II  
 Gleying : 24 cm  
 SPL : cm

Drought Grade : 3B APW : 76mm MBW : -38 mm  
 APP : 74mm MBP : -34 mm

FINAL ALC GRADE : 3B  
 MAIN LIMITATION : Droughtiness



SOIL PIT DESCRIPTION

Site Name : WOKINGHAM DLP SH02,10,20 Pit Number : 7P

Grid Reference: SU72406720 Average Annual Rainfall : 669 mm  
 Accumulated Temperature : 1468 degree days  
 Field Capacity Level : 139 days  
 Land Use : Permanent Grass  
 Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 26	MCL	10YR42 00	2	8	HR					
26- 37	MCL	10YR44 54	0	5	HR		MDCSAB	FR	M	
37- 46	MCL	10YR53 00	0	5	HR	C	MDCSAB	FR	M	
46- 72	C	25Y 52 00	0	5	HR	M	MDCAB	VM	P	
72- 95	C	25Y 51 00	0	15	HR	M	WKCSAB	VM	P	

Wetness Grade : 3A Wetness Class : III  
 Gleying : 37 cm  
 SPL : 46 cm

Drought Grade : APW : mm MBW : 0 mm  
 APP : mm MBP : 0 mm

FINAL ALC GRADE : 3A  
 MAIN LIMITATION : Wetness

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	DRT					
1	SU71406810	PGR		0	28	4	3B		0	0							
1P	SU71106710	PGR		0		2	2		90	-24	89	-20	3B				
2	SU71306790	PGR		0	35	4	3B		0	0							
2P	SU71106730	PGR	N	2	0	25	4	3B		0	0						PIT TO 65
3	SU71806790	PGR		35	35	4	3B		0	0							
3P	SU71356739	PGR	N	2	27	60	3	3A	138	24	114	6	2				PIT 71 AUG 120
4	SU71206780	PGR		0	23	4	3B		0	0							
4P	SU70606640	LEY	SW	2	28	45	3	3A		0	0						PIT TO 65
5	SU71706780	PGR		0	35	4	3B		0	0							
5P	SU71206640	PGR		28	49	3	3A		0	0							PIT TO 76
6	SU71906780	PGR	N	1	0	40	3	3A		0	0						
6P	SU72506670	PGR		24		2	2		76	-38	74	-34	3B				BORDER 3B
7	SU71106770	PGR		0	23	4	3B		0	0							
7P	SU72406720	PGR		37	46	3	3A		0	0							PIT IMP AT 95
8	SU71606770	PGR		30	50	3	3A		0	0							
9	SU71706770	PGR		0	45	3	3A		0	0							
10	SU71806770	PGR	N	1	0	35	4	3B		0	0						
11	SU72006770	PGR	N	3	30	30	4	3B		0	0						
12	SU71406760	PGR		23	35	4	3B		0	0							
13	SU71706760	PGR	N	2	20	60	3	3A		0	0						
14	SU71806760	PGR	NE	3	25	35	4	3B		0	0						
15	SU71906760	PGR	N	5	0	28	4	3B		0	0						
16	SU71146747	PGR	N	3	0	25	4	3B		0	0						
17	SU71306750	PGR		0	26	4	3B		0	0							
18	SU71506750	PGR		25	35	4	3B		0	0							
19	SU71806750	PGR		0	30	4	3B		0	0							
20	SU72306750	PGR		30	50	3	3A		0	0							
21	SU70916741	PGR	NW	2	0	45	3	3A		0	0						
22	SU71106740	PGR		0	35	4	3B		0	0							
23	SU71206740	PGR	N	3	0	23	4	3B		0	0						
24	SU71356739	PGR	N	3	0	55	3	3A		0	0						
25	SU72206740	PGR		45	55	2	2		130	16	110	2	2				SEE 3P
26	SU72406740	PGR		30	50	3	3A		0	0							IMP FLINT 100
27	SU70906730	CER		30	30	4	3B		0	0							
28	SU71106730	PGR	NW	3	0	25	4	3B		0	0						SEE 2P
29	SU71306730	PGR	N	2	27	60	3	3A		0	0						
30	SU71806730	RGR		0	55	3	3A		0	0							
31	SU72306730	PGR		0	60	3	3A		0	0							
32	SU72506730	PGR		35	50	3	3A		92	-22	100	-8	3B				
33	SU71006720	CER	W	5	27	27	4	3B		0	0						IMP FLINTS 75
34	SU71206720	PGR	W	1	28		2	1	106	-8	105	-3	3A				IMP FLINTS 80
35	SU71406720	PGR		26		2	2		98	-16	104	-4	3A				IMP FLINTS 75

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	DRT					
78	SU71116650	PGR		28	33	4	3B		0	0				WE	3B		
79	SU71306650	PGR		26	43	3	3A		0	0				WE	3A		
80	SU70606640	PGR	SW	2	30	45	3	3A		0	0			WE	3A	SEE 4P	
81	SU70806640	PGR	S	3	28		2	2	151	37	114	6	2	WD	2		
82	SU70926639	PGR	SW	3	28	50	3	3A		0	0			WE	3A		
83	SU71206640	PGR		28	43	3	3A		0	0				WE	3A	SEE 5P	
84	SU71406640	PGR		0	45	3	3A		0	0				WE	3A		
85	SU70656630	PGR	W	1	0	48	3	3A		0	0			WE	3A		
86	SU71116631	PGR		0	45	3	3A		0	0				WE	3A		
87	SU71286634	PGR		0	45	3	3A		0	0				WE	3A		
88	SU70606620	PGR	W	1	0	50	3	3A		0	0			WE	3A		
89	SU71006620	PGR		26	43	3	3A		0	0				WE	3A		
90	SU71196618	PGR		35	35	4	3B		0	0				WE	3B	SL. GLEY 24	
91	SU70546610	PGR		0	55	3	3A		0	0				WE	3A		
92	SU70666610	PGR	W	3	28	58	3	3A		0	0			WE	3A		
93	SU70906610	PGR				1	1	60	-54	60	-48	4		DR	3B	IMP 40 WET 35	
94	SU71106610	PGR		25	40	3	3A		0	0				WE	3A		
95	SU70766600	RGR	W	3	30	4	3B	89	-25	98	-10	3B	Y	MR	4	DISTURBED	
96	SU71006600	PGR		0	45	3	3A		0	0				WE	3A		
97	SU71206600	PGR		26	55	3	3A		0	0				WE	3A		
98	SU71106590	PGR		26	26	4	3B		0	0				WE	3B		

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED		----STONES----			STRUCT/ CONSIST	SUBS			SPL	CALC	
				COL	ABUN	CONT	COL.	GLE	>2	>6	LITH		TOT	STR	POR			IMP
1	0-28	mc1	10YR52 00 75YR56 00 C					Y	0	0	HR	2						
	28-65	c	25Y 63 00 75YR58 52 C					Y	0	0	HR	2		P		Y		
	65-70	c	10YR61 00 75YR56 00 M					Y	0	0	HR	5		P		Y		
1P	0-26	mc1	10YR42 00 10YR46 00 C					Y	4	0	HR	10					AT BORING 42	
	26-55	sc1	10YR62 00 10YR56 00 C					Y	0	0	HR	30	MDMSAB	FR	G			
	55-72	ms1	10YR62 00 10YR56 00 C				00MN00	00	Y	0	0	HR	62		M		SIEVED. WATER AT 65	
	72-120	gh	00ZZ00 00					Y	0	0		0		P			PIT IMP AT 72	
2	0-25	mc1	10YR52 00 75YR56 00 C					Y	0	0	HR	2						
	25-35	hc1	10YR52 00 10YR58 00 M					Y	0	0	HR	5		M				
	35-60	c	25Y 52 00 75YR58 00 M					Y	0	0		0		P		Y		
2P	0-25	mc1	10YR42 00 10YR46 00 C					Y	2	0	HR	8					AT BORING 28	
	25-45	c	10YR53 00 10YR58 00 M					Y	0	0	HR	10	WKCSAB	FM	P	Y	Y	
	45-65	c	10YR62 00 10YR58 00 M				25Y 62 00	Y	0	0		0	MDCAB	FM	P	Y	Y	
3	0-35	hc1	10YR42 00 10YR56 00 F						1	0	HR	1						
	35-80	c	10YR53 00 10YR58 00 C					Y	0	0		0		P		Y		
3P	0-27	mc1	10YR42 00						0	0	HR	2					AT BORING 24	
	27-48	ms1	10YR52 00 10YR68 00 M					Y	0	0		0	MDCSAB	FR	M		PSD - 14% CLAY	
	48-60	msz1	10YR63 00 75YR56 00 M					Y	0	0		0	WKCSAB	FR	G		PSD - ON MSL BORDER	
	60-120	mc1	10YR53 00 75YR58 00 M					Y	0	0		0	WKCSAB	FM	P	Y	Y	
4	0-23	mc1	25Y 42 00 10YR46 56 C					Y	0	0	HR	3						
	23-60	c	25Y 53 00 10YR58 68 M					Y	0	0	HR	5		P		Y		
4P	0-28	mc1	10YR42 00						0	0	HR	1					AT BORING 80	
	28-45	hc1	10YR53 00 10YR58 00 C				00MN00	00	Y	0	0	HR	2	MDCSAB	FR	M		
	45-65	c	10YR62 00 75YR58 68 M					Y	0	0	HR	5	MDCAB	FM	P	Y	Y	
5	0-35	mc1	10YR42 00 10YR56 00 C					Y	1	0	HR	1					BORDERLINE MZCL	
	35-80	c	10YR63 00 10YR56 00 C					Y	0	0	HR	1		P		Y	WET	
	80-120	sc	10YR53 00 10YR58 00 M					Y	0	0	HR	8		P		Y	WET	
5P	0-28	mc1	10YR42 00 10YR46 00 F						0	0	HR	2					AT BORING 83	
	28-49	hc1	10YR71 00 75YR58 00 M					Y	0	0		0	MDCSAB	FR	M		PSD - 3% FROM MCL	
	49-76	c	25Y 71 00 75YR68 00 M					Y	0	0		0	STCSAB	FM	P	Y	Y	
6	0-30	hc1	10YR42 52 75YR56 00 C					Y	0	0	HR	1		M				
	30-40	hc1	25Y 53 00 75YR56 00 C					Y	0	0		0		M				
	40-60	c	10YR62 00 75YR58 00 M					Y	0	0		0		P		Y		
6P	0-24	mc1	10YR41 42						3	0	HR	8					AT BORING 72	
	24-42	mc1	10YR42 41 10YR46 00 C					Y	0	0	HR	20	MDCSAB	FR	M			
	42-60	mc1	10YR43 00					Y	0	0	HR	65		P			SIEVED	
	60-120	gh	00ZZ00 00					Y	0	0		0		P			PIT IMP AT 60	

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED COL.	---STONES---			STRUCT/ CONSIST	SUBS			CALC
				COL	ABUN	CONT		GLEY	>2	>6		LITH	TOT	STR	
18	0-25	mc1	10YR42 00	10YR46 00	F			0	0	0					
	25-35	hc1	25Y 42 52	10YR58 00	C		Y	0	0	0		M			
	35-70	c	25Y 53 00	10YR58 68	M		Y	0	0	0		P		Y	
19	0-30	hc1	10YR42 52	10YR56 00	C		Y	0	0	HR 2					
	30-60	c	10YR62 63	75YR56 00	M		Y	0	0	HR 5		P		Y	
20	0-30	mc1	10YR42 00	10				0	0	HR 1					
	30-50	hc1	10YR52 00	10YR56 61	C		Y	0	0	HR 1		M			
	50-70	c	75YR56 00	75YR56 00	M		Y	0	0	HR 1		P		Y	
21	0-30	mc1	10YR42 00	10YR56 00	C		Y	0	0	HR 2					
	30-45	hc1	25Y 63 00	10YR56 00	C		Y	0	0	HR 2		M			
	45-70	c	25Y 63 00	10YR56 00	M		Y	0	0	0		P		Y	
22	0-23	mc1	10YR42 00	10YR46 00	C		Y	0	0	0					
	23-35	hc1	10YR53 00	10YR56 58	M		Y	0	0	0		M			
	35-70	c	25Y 61 00	10YR68 00	M		Y	0	0	0		P		Y	SANDY
23	0-23	hc1	25Y 42 00	10YR46 00	C		Y	0	0	0					BORDERLINE MCL
	23-60	c	10YR53 00	10YR58 68	M		Y	0	0	0		P		Y	
24	0-27	mc1	10YR41 42	10YR46 00	C		Y	0	0	HR 3					SEE 3P
	27-55	msz1	10YR53 63	10YR58 00	M		Y	0	0	HR 5		M			
	55-90	mc1	25Y 53 00	75YR58 00	M		Y	0	0	0		P		Y	BORDERLINE HCL
25	0-25	mc1	10YR43 00			00MN00 00		0	0	HR 2					
	25-45	mc1	10YR53 00					0	0	HR 2		M			
	45-55	hc1	10YR52 00	10YR66 00	C	00MN00 00	Y	0	0	HR 2		M			
	55-120	c	10YR62 00	75YR68 00	M		Y	0	0	HR 2		P		Y	IMP FLINTS 100
26	0-30	mc1	10YR42 00					0	0	HR 1					
	30-50	mc1	10YR62 63	75YR56 00	C		Y	0	0	HR 2		M			BORDERLINE HCL
	50-70	c	10YR62 00	75YR56 00	M		Y	0	0	HR 1		P		Y	
27	0-30	mc1	10YR42 43					1	0	HR 3					
	30-70	c	10YR53 00	10YR66 00	M	00MN00 00	Y	0	0	0		P		Y	
28	0-25	mc1	10YR42 00	10YR56 00	C		Y	0	0	HR 2					IMP 40 CLOSE BY
	25-35	c	10YR53 00	10YR56 00	C		Y	0	0	HR 2		P		Y	
	35-60	c	25Y 62 00	75YR56 00	M		Y	0	0	0		P		Y	
29	0-27	mc1	10YR42 00					0	0	HR 5					BORDERLINE SCL
	27-60	sc1	10YR62 63	10YR66 00	C		Y	0	0	HR 10		M			
	60-100	c	25Y 61 00	75YR58 00	M	00MN00 00	Y	0	0	HR 5		P		Y	BORDERLINE SC
30	0-30	mc1	10YR42 00	10YR48 00	C		Y	1	0	HR 2					
	30-55	hc1	10YR63 00	10YR66 00	C		Y	0	0	0		M			
	55-90	c	10YR63 00	10YR68 00	M		Y	0	0	0		P		Y	

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED	---STONES---			STRUCT/ CONSIST	SUBS			CALC		
				COL	ABUN	CONT	COL.	GLE	>2	>6		LITH	TOT	STR		POR	IMP
43	0-20	mc1	10YR52 00 75YR46 00 C					Y	0	0	0						BORDERLINE MZCL
	20-35	hc1	10YR63 00 10YR68 00 C					Y	0	0	0		M				
	35-80	c	10YR63 00 10YR68 00 M					Y	0	0	0		P		Y		
44	0-30	mc1	10YR42 00 10YR46 00 C					Y	0	0	0						SANDY SANDY
	30-40	mc1	10YR63 00 10YR46 00 C					Y	0	0	HR 1		M				
	40-75	hc1	10YR63 00 10YR46 00 C					Y	0	0	0		M				
	75-120	c	10YR63 00 75YR58 00 M					Y	0	0	0		P		Y		
45	0-22	mc1	10YR41 00 10YR46 00 F						0	0	HR 5						
	22-35	mc1	10YR53 54 10YR56 00 C					Y	0	0	HR 5		M				
	35-50	hc1	25Y 53 63 10YR58 00 M					Y	0	0	HR 3		M				
	50-80	c	25Y 62 00 75YR58 00 M				00MN00 00	Y	0	0	0		P		Y		
46	0-25	mc1	10YR41 43						0	0	HR 8						BORDERLINE HCL BORDERLINE HCL IMP FLINTS 85
	25-45	mc1	10YR53 00 10YR56 00 C					Y	0	0	HR 10		M				
	45-60	sc1	10YR53 00 10YR58 68 M					Y	0	0	HR 10		M				
	60-80	c	10YR53 63 75YR58 00 M					Y	0	0	HR 20		P		Y		
	80-85	sc1	10YR53 00 10YR58 00 M					Y	0	0	HR 60		M				
47	0-25	hc1	10YR41 00 10YR46 00 C					Y	0	0	0						BORDERLINE MCL
	25-35	hc1	10YR53 00 10YR56 00 M					Y	0	0	0		M				
	35-70	c	10YR53 51 10YR85 00 M					Y	0	0	0		P		Y		
48	0-25	hc1	10YR42 00 10YR46 00 C					Y	0	0	0						
	25-70	c	10YR53 51 10YR56 00 M					Y	0	0	0		P		Y		
49	0-20	sc1	10YR42 00						8	0	HR 15						BORDERLINE MCL BORDERLINE HCL IMP FLINTS 45
	20-40	sc1	10YR52 00 75YR56 00 C					Y	0	0	HR 20		M				
	40-45	sc1	25Y 72 00 75YR66 00 C					Y	0	0	HR 30		M				
50	0-28	mc1	10YR52 00 75YR56 00 C					Y	0	0	HR 5						IMP FLINTS 60 V.WET
	28-58	c	25Y 63 00 75YR58 46 C					Y	0	0	HR 10		P		Y		
	58-60	sc1	10YR72 00 75YR58 00 C					Y	0	0	HR 15		M				
51	0-28	mc1	10YR41 42 10YR46 00 C					Y	0	0	HR 5						WET DRIER & SL. SANDY
	28-50	hc1	25Y 53 00 10YR58 68 M				00MN00 00	Y	0	0	HR 5		M				
	50-80	c	10YR53 00 10YR58 00 M					Y	0	0	HR 2		P		Y		
52	0-26	mc1	10YR42 00 10YR46 00 C					Y	0	0	HR 5						BORDERLINE HCL BORDERLINE C
	26-35	mc1	10YR52 00 10YR56 00 C					Y	0	0	HR 8		M				
	35-60	hc1	10YR53 00 10YR58 00 C					Y	0	0	HR 10		M				
	60-100	hc1	10YR53 00 10YR58 00 C					Y	0	0	HR 10		P		Y		
53	0-28	msz1	10YR41 00						0	0	HR 5						BORDERLINE SCL BORDERLINE MCL IMP FLINTS 85
	28-45	mc1	10YR44 54						0	0	HR 5		M				
	45-60	sc1	10YR53 00 10YR56 00 C					Y	0	0	HR 10		M				
	60-85	sc1	10YR53 52 10YR66 00 M				00MN00 00	Y	0	0	HR 30		M				

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES-----			STRUCT/ CONSIST	SUBS			CALC			
				COL	ABUN	CONT		GLE	>2	>6		LITH	TOT	STR		POR	IMP	SPL
68	0-25	hc1	10YR42 52	75YR56	00	C		Y	2	0	HR	10						
	25-60	c	10YR62 71	75YR56	00	M		Y	0	0		0		P		Y		SANDIER FROM 45
69	0-25	mc1	10YR32	00					2	0	HR	2						
	25-35	mc1	10YR53 00	10YR56	00	C		Y	0	0	HR	2		M				
	35-50	hc1	10YR52 00	10YR58	00	C		Y	0	0	HR	2		M				
	50-60	c	10YR52 00	10YR56	00	M		Y	0	0	HR	15		P		Y		IMP FLINTS 60
70	0-30	mc1	10YR42 43						0	0		0						
	30-45	mc1	10YR53 51	10YR56	00	C		Y	0	0		0		M				
	45-80	c	25Y 62 61	10YR68	00	M		Y	0	0		0		P		Y		
71	0-25	mc1	10YR42	00					2	0	HR	15						
	25-40	mc1	10YR44	00					0	0	HR	20		M				
	40-60	mc1	10YR53	00					0	0	HR	35		M				WET FROM 40
	60-70	mc1	10YR53	00					0	0	HR	45		M				IMP FLINTS 70
72	0-28	mc1	10YR42	00					1	0	HR	5						SEE 7P
	28-40	mc1	10YR43	00					0	0	HR	20		M				
	40-45	mc1	10YR43	00					0	0	HR	35		M				IMP FLINTS 45
73	0-25	hzc1	10YR42 00	10YR56	00	C		Y	0	0	HR	1						
	25-60	c	10YR71 00	75YR56	00	M		Y	0	0	HR	2		P		Y		
74	0-28	mc1	10YR42 00	10YR46	00	F			0	0		0						
	28-52	mc1	10YR53 63	10YR66	00	C		Y	0	0	HR	5		M				
	52-80	c	25Y 61 00	10YR68	00	M		Y	0	0		0		P		Y		
75	0-23	mc1	10YR42 00	10YR46	00	C		Y	0	0		0						
	23-35	hc1	10YR53 00	10YR56	58	C		Y	0	0		0		M				
	35-70	c	25Y 61 00	10YR68	00	M		Y	0	0		0		P		Y		
76	0-35	hc1	10YR42 00	10YR56	00	C		Y	0	0	HR	1						
	35-60	c	10YR63 00	10YR56	00	M		Y	0	0	HR	2		P		Y		
77	0-30	hc1	10YR42	00					4	0	HR	10						BORDERLINE SCL
	30-65	hc1	10YR42	00					0	0	HR	15		M				
	65-110	c	10YR72 00	75YR56	00	M		Y	0	0		0		P		Y		
78	0-28	mc1	10YR42 00	10YR46	00	F			0	0	HR	10						
	28-33	mc1	10YR62 00	10YR58	00	M		Y	0	0	HR	10		M				
	33-70	c	25Y 62 00	10YR68	58	M		Y	0	0		0		P		Y		
79	0-26	mc1	10YR42	00					0	0		0						
	26-43	mc1	10YR62 00	10YR68	00	M		Y	0	0		0		M				
	43-70	c	25Y 51 61	10YR58	00	M		Y	0	0		0		P		Y		
	70-80	sc1	25Y 51 61	10YR58	00	M		Y	0	0		0		M				

SAMPLE	DEPTH	TEXTURE	COLOUR	---MOTTLES---			PED COL.	----STONES----			STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN	CONT		GLE	>2	>6		LITH	TOT	STR		POR
92	0-28	mc1	10YR43 00						0	0	HR	1				
	28-58	mc1	10YR53 00	10YR56 00	C			Y	0	0	HR	1	M			
	58-80	c	10YR63 71	75YR56 00	M			Y	0	0	HR	5	P		Y	
93	0-23	msz1	10YR42 00						3	0	HR	10				BORDERLINE MSL
	23-35	sc1	10YR44 54						0	0	HR	15	M			SATURATED FROM 35
	35-40	msz1	10YR44 54						0	0	HR	50	M			IMP 40 GRAVELLY
94	0-25	mc1	10YR42 00						0	0	HR	3				
	25-40	hc1	10YR63 00	10YR58 00	C	00M00	00	Y	0	0	HR	5	M			
	40-90	hc1	25Y 61 00	10YR68 00	M			Y	0	0		0	P		Y	BORDERLINE C
95	0-30	sc1	10YR54 00						0	0	HR	5				DISTURBED PROFILE
	30-55	c	10YR42 00						0	0	HR	5	P		Y	DENSE & V.PLASTIC
	55-70	sc1	10YR42 32						0	0	HR	20	M			VERY GRITTY
96	0-28	mc1	10YR41 00	10YR46 00	C			Y	0	0	HR	5				SLIGHTLY SANDY
	28-45	mc1	10YR52 00	10YR56 00	C			Y	0	0	HR	10	M			SLIGHTLY SANDY
	45-90	c	10YR63 00	10YR58 68	M			Y	0	0		0	P		Y	
97	0-26	mc1	10YR42 00						0	0	HR	2				
	26-55	mc1	10YR63 00	10YR56 00	C			Y	0	0	HR	5	M			
	55-80	c	25Y 53 63	10YR58 00	M			Y	0	0		0	P		Y	
98	0-26	mc1	10YR42 00	10YR46 00	F				0	0	HR	5				
	26-70	c	25Y 53 63	10YR58 00	M			Y	0	0	HR	5	P		Y	