A1
Wokingham District Local Plan
Site WT 01, 03, & 08, WK 18, 34
Chapel Green, Berkshire
Agricultural Land Classification
January 1996

Resource Planning Team Guildford Statutory Group ADAS Reading

ADAS Reference: 0206/183/95
MAFF Reference: EL 02/01176

**LUPU Commission: 02301** 

### AGRICULTURAL LAND CLASSIFICATION REPORT

## WOKINGHAM DISTRICT LOCAL PLAN SITES WT 01, 03 & 08, WK 18 & 34 -CHAPEL GREEN, BERKSHIRE.

#### Introduction

- 1. This report presents the findings of a semi-detailed Agricultural Land Classification (ALC) survey of approximately 114 hectares of land at Chapel Green, to the immediate south and east of 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. The results of this 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 on this site was under permanent grassland, including a number of pheasant enclosures, and set-aside land. However, to the south west of Waterloo Crossing one field was under a cereal crop. The areas shown as 'Other Land' mainly include farm buildings, private houses, roads and trackways, though a small copse occurs to south of the site, in front of Ludgrove School. To the east of this a large reservoir has been excavated for flood alleviation purposes.

### 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 over leaf.
- 7. The fieldwork was conducted at an average density of approximately 1 boring every 2 hectares. A total of 65 borings and five soil pits were described.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% Agricultural area	% Site area
2	11.4	11.1	10.0
3a	28.1	27.3	24.6
3b	62.1	60.3	54.4
4	1.3	1.3	1.1
Other Land	11.2	N/A	9.9
Total agricultural land	102.9	100.0	N/A
Total site area	114.1	N/A	100.0

7.

- 8. The majority of the agricultural land on this site has been classified as Subgrade 3b (moderate quality) with Subgrade 3a or Grade 2 (good or very good quality respectively) being assigned to much of the remainder of the land. The key limitation here is either soil wetness or soil droughtiness. A small area of Grade 4 has also been mapped adjacent to the railway line, in the north west, where the land is believed to have been disturbed.
- 9. There are three main soil types on this site. In the east and the west the land is principally limited by soil wetness. Soils generally comprise medium textured topsoils over slowly permeable clay loams and clays which restrict drainage through the profile causing seasonal waterlogging. As a result crop growth and yields may be restricted as wet soils can impede seed germination and root development. The combination of medium topsoils and wet soils may also result in structural damage through trafficking by grazing livestock or agricultural machinery. Such land has therefore been mapped as a mixture of Grade 2, Subgrade 3a and Subgrade 3b depending upon the degree of drainage impedance.
- 10. Towards the centre of the site, north of Ludgrove School, the soils are distinctly lighter in texture being sandy and slightly to moderately stony throughout. In this locally dry climatic regime the combination of light, well drained soils and the slight to moderate stone content act to reduce the amount of profile available water for crops such that soil droughtiness limits the land quality. On the higher ground, where the topsoils are generally medium sandy loams, the land has been mapped as Subgrade 3a. The lower slopes, however, are more sandy and have thus been classified as Subgrade 3b.
- 11. Between Starlane Crossing and Waterloo Crossing the profiles are more gravelly and/or more variable. Again the combination of the locally dry climatic regime, light soils and high flint content act to reduce the amount of profile available water for crops such that the land is limited by soil droughtiness. In the valley bottom, where stony soils overlie gravel at depth, the land has been classified as Subgrade 3b. On the slightly higher land the profiles are less flinty and the land is therefore assigned to Grade 2.

## Factors Influencing ALC Grade

#### 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 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met. Office, 1989).

Table 2: Climatic and altitude data

Factor	Units	Values	Values	Values		
Grid reference	N/A	SU 811 676	SU 819 678	SU 832 687		
Altitude	m, AOD	55	60	70		
Accumulated Temperature	day°C	1460	1455	1443		
Average Annual Rainfall	mm	653	658	669		
Field Capacity Days	days	137	138	140		
Moisture Deficit, Wheat	mm	114	113	111		
Moisture Deficit, Potatoes	mm	108	107	105		

- 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 (AT0, 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 (Climate Grade 1). However, climatic factors do interact with soil properties to influence soil wetness and droughtiness limitations. At this locality the slightly high crop adjusted soil moisture deficits may increase the likelihood of soil droughtiness while the correspondingly low average annual rainfall may reduce the likelihood of soil wetness.
- 17. Local climatic factors such as exposure or frost risk are not believed to affect the site.

### Site

18. The site is gently undulating situated between 53-73m AOD. Nowhere on this site do either altitude or gradient adversely affect agricultural land use.

### Geology and soils

- 19. The relevant geological sheets (BGS, 1971 & 1981) map the majority of the site as London Clay with a narrow strip of alluvium along the stream. To the west of the site Bagshot Beds occur on the higher land, capped by plateau gravel. Plateau gravel also occurs to the south of Woods Farm while a small area of flood plain gravel is mapped to the west of Waterloo Crossing.
- 20. The most recently published soil information for the site (SSEW, 1983) shows the Wickham 3 soil association to be mapped across the east of the site, with the Swanwick association to the west. The former are described as 'slowly permeable, seasonally waterlogged fine loamy over clayey and coarse loamy over clayey soils, and similar more permeable soils with slight waterlogging. Some deep coarse loamy soils affected by groundwater. Landslips with irregular terrain locally.' (SSEW, 1983). The latter are said to be 'deep permeable coarse loamy and sandy soils, some with peaty surface horizons, affected by groundwater.' (SSEW, 1983).
- 21. Detailed field survey broadly confirms the existence of such soils.

## **Agricultural Land Classification**

- 22. 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 2.
- 23. 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 III.

#### Grade 2

Grade 2, very good quality land, has been mapped on the slightly higher ground to the east of Wood's Farm and is typified by soil inspection pit 3. The soil profiles are generally very slightly to slightly stony throughout (1% > 2&6 cm, 2-10% total flint) comprising medium sandy loam or sandy clay loam topsoils over similar, gleyed upper subsoils. The sandy clay loam and clay lower subsoils are slowly permeable from between 50-95cm depth thus restricting drainage through the profile. As a result seed germination and root development may be very slightly restricted. This land has been assigned to Wetness Class II or III, Grade 2 as the light topsoil textures are less susceptible to workability restrictions. In this locally dry climatic regime the combination of soil textures, structures and stone content also acts to slightly reduce profiles available water for crops thus partially inhibiting crop growth and yields. This land is therefore subject to both a minor soil wetness and soil droughtiness limitation.

### Subgrade 3a

To the centre of the site, also on the higher ground, the soil profiles are very slightly to moderately flinty comprising 0.6% > 2cm in the topsoils & 2-20% total stone v/v

throughout the rest of the profile. The soil textures are much lighter here, however, comprising medium sandy loam topsoils over a mixture of sandy loam, loamy sand and sand subsoils. Medium sand more commonly occurs but occasional horizons of fine or coarse sand were also noted. In this locally dry climatic regime the combination of light soil textures and stone content deplete the amount of profile available water for plants resulting in a significant soil droughtiness limitation. This land has therefore been classified as Subgrade 3a.

26. On the higher ground to the extreme east and in a small valley to the west the land is limited by soil wetness and/or soil droughtiness. In general stoneless to slightly stony (0-10% total flint) medium clay loam or medium sandy loam topsoils and upper subsoils overlie poorly structured, slowly permeable, heavy clay loam, sandy clay loam and clay lower subsoils. The resultant drainage impedance limits this land to Wetness Class III, Subgrade 3a or Grade 2 where the lighter topsoil textures reduce the workability restriction. The combination of light soil textures, poor structures, slight stone content and the locally dry climatic regime also act to slightly reduce the amount of profile available water for crops. As a result the level of crop growth and yields will be slightly affected thus restricting this land to Subgrade 3a on the basis of soil droughtiness. Occasional borings of slightly better quality were found in this area. However, due to the level of detail of the survey these borings were not extensive enough to map separately.

## Subgrade 3b

- 27. The majority of the Subgrade 3b mapping unit is limited by soil wetness. Here medium and heavy clay loam topsoils overlie heavy clay loam and sandy clay loam upper subsoils before passing to clay in the lower subsoil. Soil inspection pit 4 revealed the upper subsoils to be moderately structured and the lower subsoils to be poorly structured, all of which were slowly permeable. Drainage is thus significantly impeded causing prolonged seasonal waterlogging in the soil profile. As a result, crop germination and growth may be adversely affected. The heavier topsoil textures can also restrict the timing of cultivations as trafficking by agricultural machinery or grazing by livestock may lead to structural damage. Wetness Class IV, Subgrade 3b is therefore considered appropriate for this land.
- 28. Towards the centre of the site the soil profiles are extremely light and well drained. These are typified by soil inspection pit 1 which comprises a slightly flinty (6% > 2cm, 10% total stone by volume) loamy medium sand topsoil over a similar upper subsoil with 20% total flint by volume. From 46cm depth the profile becomes lighter in texture and less stony (2% total flint by volume) comprising a well structured medium sand. At 73cm this passes to a moderately structured, stoneless, fine sand and continues to depth. In this locally dry climatic regime the combination of very light soil textures and slight to moderate stone content acts to reduce the amount of profile available moisture for crops. This land has therefore been mapped as Subgrade 3b due to a significant soil droughtiness limitation.
- 29. A small area of land, to the south east of Wood's Farm, has also been classified as Subgrade 3b due to soil droughtiness. The topsoils comprise slightly flinty (6% >2cm, 10% total stone by volume) medium sandy loams over progressively more stony (15-40% flint) upper subsoils of similar texture. At around 40-60 cm depth the profile became impenetrable to the soil auger. Soil inspection pit 2 revealed that below this depth approximately 10cm of very stony (60% total flint) loamy medium sand overlies gravel deposits. As above the locally

dry climatic regime, light soil textures and high stone content act to reduce profile available water causing significant drought risk.

### Grade 4

30. Finally a small area of the site has been classified as Grade 4, poor quality land, due to disturbance, presumably from the adjoining railway line. The land lies to the west of The Knoll Farm and is extremely hummocky. The soil profile comprises very slightly flinty (1-2% total stone) medium sandy loam topsoil and upper subsoils which become impenetrable to the soil auger at 70cm depth. This land is therefore limited to Grade 4 on the basis of soil mixing and micro relief.

Helen Goode, Resource Planning Team, Guildford Statutory Centre, ADAS, Reading.

### **SOURCES OF REFERENCE**

British Geological Survey (1971) Sheet No. 268, Reading. 1:63,360 scale (Drift Edition). BGS: London.

British Geological Survey (1981) Sheet No. 269, Windsor. 1:50,000 scale (Solid & Drift Edition). 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 (1983) 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.

#### 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.

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.										
Ш	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 well 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.										

## 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).

A THE STREET

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

<sup>&</sup>lt;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.

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	eLEY:	Ley Grass	RGR:	Rough Grazing
SCR:	Scrub	CFW:	Coniferous Woodland	DCW:	Deciduous Wood
HTH:	Heathland	BOG:	Bog or Marsh	$\boldsymbol{FLW} \colon$	Fallow
PLO:	Ploughed	SAS:	Set aside	OTH:	Other
HRT.	Horticultural Cros	26			

- 3. GRDNT: Gradient as estimated or measured by a hand-held optical clinometer.
- 4. GLEY/SPL: 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.

· <b>S</b> :	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	<b>C</b> :	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.
- 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. GLEY: 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

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

Site Name: WOK'HAM DLP, CHAPEL GREEN Pit Number: 1P

Grid Reference: SU81606760 Average Annual Rainfall: 658 mm

Accumulated Temperature: 1455 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass

Slope and Aspect : 01 degrees S

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 29	LMS	10YR32 00	6	10	HR					
29- 46	LMS	10YR43 00	0	20	HR	С			М	
46- 73	MS	10YR53 00	0	2	HR	С	MDCAB	VF	G	
73-120	FS	10YR63 00	0	0		М	WKCAB	VF	М	

Wetness Grade : 2 Wetness Class : I

Gleying :046 cm SPL : No SPL

Drought Grade: 3B APW: 112mm MBW: -1 mm

APP: 50 mm MBP: -50 mm

FINAL ALC GRADE : 38

MAIN LIMITATION : Droughtiness

Site Name : WOK'HAM DLP, CHAPEL GREEN Pit Number: 2P

Grid Reference: SU82606780 Average Annual Rainfall: 658 mm

Accumulated Temperature: 1455 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass

Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 22	MSL	10YR42 00	3	10	HR					
22- 35	MSL	10YR42 52	6	15	HR		MDCSAB	VF	M	
35- 45	MSL	10YR42 52	0	40	HR				M	
45- 53	LMS	10YR42 52	40	60	HR				M	
53-120	GH	25Y 62 00	0	0					M	

Wetness Grade: 1 Wetness Class : I

> Gleying : cm

SPL : No SPL

APW: 69 mm MBW: -44 mm Drought Grade: 3B

APP: 66 mm MBP: -41 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Droughtiness

Site Name: WOK'HAM DLP, CHAPEL GREEN Pit Number: 3P

Grid Reference: SU82706770 Average Annual Rainfall: 658 mm

Accumulated Temperature: 1455 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass

\$1ope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 29	MSL	10YR42 00	1	5	HR					
29- 39	MSL	10YR42 00	0	10	HR		MDCSAB	FR	M	
39- 53	MSL	10YR63 00	0	5	HR	С	WKCSAB	VF	G	
53- 77	SCL	25Y 62 00	0	2	HR	М	MDCPR	FR	М	
77-120	SCL	25 Y72 00	0	5	HR	М	WKCSAB	FM	P	

Wetness Grade : 2 Wetness Class : III

Gleying :039 cm SPL :053 cm

Drought Grade: 2 APW: 138mm MBW: 25 mm

APP: 108mm MBP: 1 mm

FINAL ALC GRADE : 2

MAIN LIMITATION : Soil Wetness/Droughtiness

Site Name : WOK'HAM DLP, CHAPEL GREEN Pit Number: 4P

Grid Reference: SU82906850 Average Annual Rainfall: 658 mm

Accumulated Temperature: 1455 degree days

Field Capacity Level : 138 days

Land Use

: Permanent Grass

Slope and Aspect

: 01 degrees S

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 33	MCL	10YR31 00	0	3	HR					
33- 52	HCL	10YR53 00	0	2	HR	С	WKCSAB	FR	M	
52-120	С	25Y 62 00	0	3	HR	M	MDCAB	FM	P	

: IV Wetness Grade: 38 Wetness Class

Gleying

:033 cm

SPL

:033 cm

Drought Grade: 2

APW: 133mm MBW: 20 mm

APP : 110mm MBP : 3 mm

FINAL ALC GRADE : 3B MAIN LIMITATION : Wetness

Site Name: WOK'HAM DLP, CHAPEL GREEN Pit Number: 5P

Grid Reference: SU82906830 Average Annual Rainfall: 658 mm

Accumulated Temperature: 1455 degree days

Field Capacity Level : 138 days

Land Use : Permanent Grass

Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MSL	10YR42 00	2	5	HR					
25- 50	MSL	10YR62 72	0	25	HR	С	MDCSAB	FR	М	
50- 60	MSL	25 Y72 00	0	15	HR	M	MDCOAB	FR	M	
60- 90	SCL	10YR63 00	0	2	HR	М	MDCOAB	FR	М	

Wetness Grade : 2 Wetness Class : III

Gleying :025 cm

SPL :060 cm

Drought Grade: 3A APW: 108mm MBW: -5 mm

APP : 97 mm MBP : -10 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

SAMPI	_E	A	SPECT				WET	ness	- <b>W</b> -1E	AT-	-P0	TS-		M. REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	_		GRDNT	GLEY	SPL		GRADE		MB	AP	MB	DRT		EXP		LIMIT		COMMENTS
1	SU82906870	PGR			030	055	3	2	124		100	-7	2				WD	2	
1P	SU81606760	PGR	S	01	046		1	2	112	-1	50	-50	3B				DR	3B	At Boring 100
2	SU83106870	PGR			0	030	4	38		0		0					WE	38	
2P	SU82606780	PGR					1	1	69	-44	66	-41	3B				DR	38	Occas Fe Pan
3	SU83306870	RGR	SE	01	0	030	4	38	117	4	115	8	<b>3</b> A				WE	38	Imp 90
																		_	
	SU82706770				039		3	2	138		108	1					MD	2	
4	SU82806860				030		3	3A	121		112		2				WE	3A	
			S	01	033		4	38	133		110	3	2				WE	3B	At Boring 24
5	SU83006860				030		3	2	129		104	-3	2				MD	2	
5P	SU82906830	PGR			025	060	3	2	108	-5	97	-10	<b>3</b> A				DR	ЗА	At Boring 15
•	CHOSSOCOCO	000	C.E.	01	020	000	-	24	140	20	110		_				ur	24	
5	SU83206860		2F	01	030		3	3A	1427		118	11	2				WE	3A	T 05
7	SU82706850		_	^-		060	3	3A	120	0		0	24				WE	3A	Imp 85
8	SU82906850 SU83106850		5	01	028		3	2	139		110	3	ЗА				DR LIE	3A	See 5P
9				Λ1	030		4	3B		0		0					WE WE	3B 3B	Imp 70
10	SU82806840	PGK	3	01	028	020	4	3B		0		U					ME	30	
11	SU83006840	DCD.			0	025	4	3B		0		0					WE	3B	
12	SU82906830				030		4	3B		a		0					. WE	3B	See 4P
13	SU83106830		SE.	01	030		4	3B		٥		0			**		WE	3B	366 47
14	SU83006820		JL	٧ı	030	-	4	3B		0		o					WE	3B	
15	SU83206820				030		4	3B		0		0					WE	38	
	OOOSEOOOEO	OLIK			000	000	•	35		Ŭ								-	
16	SU83226818	CFR			030	030	4	3A		0		0					WE	ЗА	
17	SU83106810		W	01	030		2	1	123		104	-3	2				DR	2	
18	SU83256805			02	030	• • •	2	2	71	-42		-36	3B				DR	38	Imp 45 See 2P
19	SU82606800			01	040	085	1	1	124		97	-10	2				DR	2	· ·
20	SU82806800				030		2	2	146		109	2					WD	2	
21	SU83006800	PGR			035	035	4	38		0		0					WE	3B	
22	SU81136785	PGR			030	040	3	3A		0		0					WE	<b>3</b> A	
23	SU81206790	PGR	S	02	025		2	1	100	-13	108	1	<b>3A</b>			Y	OS	4	Disturbed
24	SU82306790	PGR			0	025	4	38		0		0					WE	3B	
25	SU82406790	PGR	S	01	0		2	1	44	-69	44	-63	4				DR	3B	Imp 30 See 2P
26	SU82506790	PGR			035	035	4	3B		0		0					WE	38	Q Disturbed
27	SU82706790	PGR	S	01			1	1	34	-79	34	-73	4				DR	38	Imp 40 See 2P
28	SU81006780	PGR			0	035	4	3B		0		0					WE	3B	Groundwater
29	SU81106780	PGR			0	045	3	3A		0		0					WE	<b>3</b> A	
30	SU81206780	PGR	S	01	025	025	4	3B		0		0					WE	38	
31	SU81406780			04		045	3	2	133		105	-2	2				WE	38	Wet Flush
32	SU81606780			04	045	060	2	1	104		87	-20	3A				DR	ЗА	
33	SU81686780			02	050		1	1	110		94	-13					DR	34	S1 Gleyed 30
34	SU81806780			01	045		1	1	152		94	-13	<b>3A</b>				DR	3A	\$1 Gleyed 30
35	SU81976779	PGR	W	02	030	030	4	3B		0		0					WE	38	
			_				_			_		_							
36	SU82186782			02	030		3	3A		0		0	٠.				WE	3A	
37	SU82406780	PGR	N	02	0	078	2	2	149	36	107	0	3A				DR	ЗА	

65 SUB1406740 PGR NE

02

DR

Sandy

SAMPLE **ASPECT** --WETNESS-- -WHEAT- -POTS-M. REL EROSN FROST CHEM ALC NO. GRID REF USE GRDNT GLEY SPL CLASS GRADE AP MB AP MB LIMIT FL00D EXP COMMENTS DRT DIST 38 38 SU82606780 PGR 51 -62 51 Imp 40 See 2P 1 -56 4 DR 39 SU82806780 PGR 026 055 3 2 148 35 108 1 WD 2 40 SU80906770 PGR NE 0 030 0 n WE 38 01 4 38 030 070 3 2 41 SU81106768 PGR 02 2 137 24 110 3 2 MD 42 SU81306770 PGR 030 070 145 32 122 WE 2 43 SU81506770 PGR S 03 050 126 DR 3B 1 1 13 65 -42 3B 44 SU81706770 PGR 02 030 1 117 4 66 -41 3B DR 3B 45 SU81906770 PGR 02 026 026 3B 0 0 WE 38 4 SU82066775 PGR 02 030 040 3 **3**A 0 0 WE **3A** 47 SU82306770 PGR 038 075 124 11 84 -23 DR 34 1 48 SU82506770 PGR N 0 2 1 77 -36 80 -27 DR 38 Imp 60, See 2P 040 070 39 109 DR 2 49 SU82706770 PGR 2 2 2 1 152 0 030 0 WE. 3B 50 SU80986762 PGR E 01 4 3B 0 SU81206760 PGR 03 030 080 2 1 1 86 -21 DR 3A SUB1406760 PGR 0 035 0 3B 0 WE 3B Imp 75 075 -50 53 SU81606760 PGR S 01 1 1 112 -1 50 3B DR 3B See 1P,S1 Gley 54 SU81826761 PGR 070 74 -39 58 DR 3B V Wet 80 1 55 SU81906760 PGR 025 2 2 100 -13 107 0 3A DR 3A Imp 65 56 SU82006760 PGR 028 028 4 3B 0 0 WE 38 SU82206760 PGR 030 030 3B 0 0 WE 38 Q Disturbed 58 SU82606760 PGR 025 060 -14 102 -5 3A DR 3A Imp 75 3 2 99 028 068 0 2 DR 59 SU82786764 PGR 2 1 149 36 107 2 60 SUB1106750 PGR W 01 64 -49 57 -50 3B DR 3B Imp 60 030 080 2 SU81306750 PGR NE 02 2 1 131 18 101 -6 2 DR 025 10 2 SU81506750 PGR 13 117 ÐR 2 1 1 126 Reddish 63 SUB1006740 PGR 0 025 38 0 0 WE 38 SU81206740 PGR 030 2 1 86 -27 71 -36 3B DR 38 Sandy

-58 4

66

-47 49

1

1

				MOTTLES-		PED			-ST(	ONES-		STRUCT/	SUE	3S				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABUN	CONT	COL.	GLE	/ >2	>6 I	LITH	TOT	CONSIST	ST	R POR	IMP	SPL	CALC	
1	0~30	ms1	10YR42 00					2	0 1	HR	2							
	30-45	ms l		75YR68 72 C			Υ		0 1		5		М					
	45-55	lms	10YR71 00	10YR58 00 C			Y	0	0 1	HR	5		М					
	55-65	scl	10YR63 00	10YR68 71 C			Υ	0	0		0		М			Y		
	65-100	sc	10YR62 00	10YR71 00 C	7.	5YR58	00 Y	0	0 1	HR	2		Р			Y		
	100-120	lms	10YR71 00	10YR58 00 C			Y	0	0		0		M					
1P	0-29	lms	10YR32 00					6	0 1	HR	10							Almost MS
	29-46	lms	10YR43 00	10YR56 00 C			S	0	0	HR	20	•	M					Almost MS
	46-73	ms	10YR53 00	75YR46 00 C			Y	0	0	HR	2	MDCAB V	FG					Almost FS
	73-120	fs	10YR63 00	75YR56 00 M			Y	0	0		0	WKCAB V	FM					
2	0-30	mcl	10YR42 00	10YR46 00 C			Y		0	HR	1							
	30-120	zc	10YR63 00	10YR68 71 M			Y	0	0		0		Р			Y		
2P	0-22	ms1	10YR42 00					3	0	HR	10							PSD
	22-35	f am	10YR42 52					6	0	HR	15	MDCSAB V	FM					PSD
	35-45	msl	10YR42 52			OMNOO			0		40		M					Too stony for struc
	45-53	lms	10YR42 52		0	OMNOO	00		0	HR	60		М					Too stony for struc
	53-120	gh	25Y 62 00					0	0		Q		М					V Wet
3	0-30	mcl	10YR41 00	10YR46 00 M			Y		0	HR	0							
	30-40	hcl	10YR51 00	10YR58 00 C			Υ		0		0		М			Υ		
	40-70	scl	10YR62 00	10YR68 71 M			Y		0		0		М			Y		
	70-80	ากร	10YR62 00	10YR68 00 M			Y		0		0		M					
	80-90	С	10YR63 00	10YR68 71 M			Y	0	0		0		Р					Imp Gravelly
3P	0-29	msl	10YR42 00					1	0	HR	5							PSD
	29-39	msl	10YR42 00					0	0	HR	10	MDCSAB F	RM	1				PSD
	39-53	msl	10YR63 00	75YR56 00 C	0	OOMNOO	00 Y	0	0	HR	5	WKCSAB V						PSD
	53-77	scl	25Y 62 00	75YR68 00 M	2	5Y 63	00 Y		0		2					Y		PSD
	77-120	scl	25 Y72 00	75YR68 00 M			Y	0	0	HR	5	WKCSAB F	M P	Y		Y		PSD
4	0-30	mcl	10YR42 00					0	0	HR	3							
	30-55	msl	10YR62 00	10YR58 00 C	1	0YR72	00 Y		0		0		M					Borderline SCL
	55-100	С	10YR72 00	75YR68 00 M			Y	0	0		0		P	•		Y		
<b>4</b> P		mcl	10YR31 00					0		HR	3							
	33-52	hol		10YR56 00 C		OOMMOO			0			WKCSAB F				Y		
	52-120	С	25Y 62 00	10YR58 00 M	C	OMNOO	00 Y	0	0	HR	3	MDCAB F	TM P	Y		Y		
5	0-30	msl	10YR42 00					2		HR	2			_				
	30-50	msl		10YR66 00 C			Y	_			0		۲					•
	50-120	zc	10YR63 00	10YR68 71 M			Y	0	0		0		F	,		Y		
5P		msl	10YR42 00						0		5							PSD
	25-50	msl		10YR58 00 C			Y			HR	25							
	50-60	msl		75YR58 00 M			Y					MDCOAB F						a. /a
	60-90	scl	10YR63 00	75YR68 00 M	1	0YR71	00 Y	0	0	HR	2	MDCOAB 8	RN	1 Y		Y		Sdy/Clay lenses

				MOTT	ES	PED			:	STONES-		STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABU			GLE						STR POR IMP	SPL CALC	
6	0-30	mzc1	10YR42 00					0	) (	0	0				
	30-40	hzc1	10YR53 00	10YR68 00	С		Y	0	1	O HR	3		M		
	40-60	mcl	10YR63 00	10YR58 00	С		Y	0	1	0	0		М		
	60-120	zc	10YR63 00	10YR58 71	С		Υ	0	1	0	0		Р	Y	
7	0-35	mcl	10YR41 00	75YR46 00	С		Y	0	(	0	Q				Slightly Sandy
	35-60	scl	10YR62 00	75YR58 00	С	10YR71	00 Y	0	(	O HR	2		M		Light
	60-85	С	25 Y62 00	75YR58 00	С	25 Y72	00 Y	0	) (	O HR	. 5		P	Y	Imp Gravelly
8	0-28	msl	10YR42 52					0	) (	0	0				PSD
	28-55	msl	10YR73 00	75YR46 00	C	10YR71	00 Y	0	) (	O HR	5		М		
	55–60	scl	10YR62 00	75YR58 00	С		Y	0	1	0	0		М	Y	Sdy/Clay lenses
	60-70	С	10YR62 00	75YR68 00	M		Υ	0	) (	0	0		М	Y	
	70-80	scl		75YR68 00			Y		) (	0	0		М	Y	
	80-120	С	10YR71 00	75YR68 00	М		Y	0	(	0	0		М	Y	
9	0-30	mcl	10YR42 00					2		O HR	2				Slightly Sandy
	30-70	С	10YR63 00	10YR58 00	С		Y	0	(	O HR	2		Р	Y	Imp Gravelly
10	9-28	mc1	10YR42 00					-		0	0				Slightly Sandy
	28-45	hc1		75YR58 00		10YR72				O HR	5		М	Y	
	45-80	С	25 Y72 00	75YR68 00	М		Y	0	) (	0	0		Р	Y	
					_					_					
11	0-25	hc1		75YR46 00			Υ		) (		0		_		
	25-45	С		75YR58 00		10YR61			)		0		P	Y	
	45–80	С	IOYR61 QQ	75YR68 00	М		Y	0	,	0	0		Р	Y	
-10	0.00		100043 40					_		A 14B	_				
12	0-30	mc1	10YR41 42		•	10/060	20.14	0		O HR	2			v	
	30-53	hc1		75YR56 00		10YR62				O HR	2		M P	Y	
	53-85	С	TUTKOS UU	75YR68 00	m		Y	0	' '	0	0		r	Y	
12	0-30	1	10YR43 00					-		O HR	,				
13	30-90	mc] c		75YR68 00	м		Υ	3		0 nx 0	3		Р	Y	
	30-30	C	וטואיצ טט	/31K00 UU	п		Ţ	·	, ,	U	U		r	Ţ	
14	0-30	mcl	10YR43 00					9	, ,	O HR	2				
1-4	30-70	C		10YR68 00	м		Y		·		0		Р	Y	
	30-70	C	TOTRUE OU	101100 00	п		,	•	,	v	v		•	ı	
15	0-30	mcl	10YR53 00					7	,	2 HR	7				
	30-60	scl		75YR46 00	м		Y			O HR	2		М	Y	
	60-75	scl		75YR46 00			Y			O HR	2		 M	Ÿ	
	75-100			75YR46 00			· Y			O HR	2		P	Ÿ	
	100-120			75YR46 00			γ			0	0		P	Y	
		-			**		•	•	•	-	•		•	•	
16	0-30	ms1	10YR43 00	ı				ŗ	5	1 HR	7				
	30-55	scl		10YR68 00	С		γ			O HR	3		M	Y	
	55-65	c c		10YR68 00			Υ			O HR	2		P	Y	
	65-100			75YR68 00			Y		)		0		Р	γ	

---STONES---- STRUCT/ SUBS ----MOTTLES---- PED COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC SAMPLE DEPTH TEXTURE COLOUR 17 0-30 ms 1 10YR43 00 6 2 HR 15 PSD 0 0 HR 30-50 25 Y63 00 10YR58 00 C 5 ms 1 М 0 0 HR 50-70 scl 10YR64 00 10YR68 00 C 2 Very Sandy 70-110 c 10YR63 00 10YR68 00 M 0 0 0 Ρ 0-30 6 2 HR 18 mcl 10YR42 00 12 30-45 hc1 10YR52 00 10YR58 00 C Y 0 0 HR 5 Imp Gravelly 0-35 10YR43 00 0 0 HR 5 ms 1 0 0 HR 10YR44 00 35-40 10 ms 1 М 40-60 ms 1 10YR53 00 10YR58 00 C 0 0 HR 10 М 60-75 lms 10YR63 00 75YR68 00 M 0 0 HR 20 10YR63 00 75YR68 00 M 0 0 HR 75-85 2 ms 10YR63 00 75YR68 00 M 0 0 HR P 85-120 sc 2 20 0-30 scl 10YR42 00 0 0 HR 2 ms 1 10YR62 00 10YR68 00 C 0 0 HR 2 30-50 М 50-95 10YR63 00 75YR58 00 C Υ 0 0 HR 2 М 95-120 c 10YR63 00 75YR68 00 M 0 0 0 Р 1 0 HR 21 0-35 mc1 10YR43 00 5 10YR63 00 75YR68 00 M Y 0 0 35-80 0 22 0-30 10YR43 00 0 0 0 mzcl 10YR53 00 75YR53 00 C Υ 0 0 30-40 mzc1 n 40-70 10YR53 00 75YR58 00 M 0 0 0 Imp Gravelly hzcl 0-25 msl 2 0 HR 2 23 10RR43 00 Hummocky 25-70 ms 1 10YR63 00 10YR58 00 C Y 0 0 HR 2 М Imp Q Disturbed 0-25 mc1 10YR42 00 75YR46 00 C Υ 2 0 HR 10 hc1 10YR52 00 75YR56 00 M 0 0 HR 5 25-40 ٧ М 10YR62 00 75YR56 00 M 0 0 HR P 40-60 С 5 0-20 10YR42 41 75YR46 00 C Y 0 0 HR 5 25 ms 1 20-30 10YR52 00 10YR58 00 C Y 0 0 HR 25 ms 1 М Imp Gravelly 26 0-35 hcl 10YR42 00 0 O HR 2 0 disturbed 10YR52 00 10YR58 00 C 10YR73 00 Y 0 0 HR hc1 35-70 2 М Imp Gravelly 0-30 0 0 HR 27 10YR43 00 10 lms 0 0 HR 30-40 75YR68 00 20 lms Imp Gravelly 0-35 mc1 10YR41 00 75YR46 00 C 0 0 0 35-55 hc1 10YR52 00 75YR56 00 C Υ 0 0 HR 5 М Υ V Wet 10YR73 00 75YR58 00 C 55-75 Υ 0 0 HR 10 М Saturated 75-100 c 10YR62 00 75YR68 00 M 0 0 0 Р Sandy lenses

				MOTTLES	PED			_01	TONES		STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR										IMP SPL CALC	
<del></del>				******			_	_					5,	
29	0-30	mc1	10YR41 00	75YR46 00 C		Υ	0	0		0				
	30-45	mc1	10YR53 00	75YR56 00 C		Υ	0	0	HR	10		M		
	45–55	hc1	10YR52 00	75YR58 00 M		Y	0	0		0		Р	Y	V Wet
	55-80	С	10YR62 00	75YR68 00 M		Y	0	0		0		Ρ	Y	
30	0-25	mcl	10YR43 00						HR	5				
	25-90	C	10YR53 00	10YR58 61 M		Y	0	0	HR	5		P	Y	
31	0-35	msl	100042 00	10YR46 00 C		γ	2	٥	HR	3				
31	35-45	msl		10YR58 00 M		Ÿ			HR	2		М		
	45-70	C		10YR68 00 C		Ÿ		0		0		P	Y	
	70-120			25 Y66 00 M		Ý		0		ō		Р	Y	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					·	_	-		_		·	·	
32	0-30	msl	10YR42 00				6	0	HR	15				
	30-45	lms	10YR43 00				0	0	HR	10		М		
	45-60	msl	10YR53 00	10YR56 00 C		Υ	0	0	HR	5		M		
	60-75	c	10YR63 00	05Y 58 00 M		Y	0	0	HR	10		Ρ	Y	
	75-100	scl	10YR53 00	05Y 58 00 M		Y	0	0	HR	15		M		Coarse sand
	100-105	lcs	10YR63 00	05Y 58 00 M		Y	0	0	HR	20		М		
		_												
33	0-30	ms l	10YR41 00						HR	2				
	30-50	msl		10YR56 00 C		S		0		0		M		
	50-70 70 120	lms		10YR58 68 M		Y		0		0		M G		
	70-120	ms	251 03 00	75YR58 00 M		Y	U	0		U		u		
34	0-30	നടി	10YR42 00				0	0	HR	2				
•	30-45	ms l		10YR56 00 C		s		0		ō		М		
	45-65	lms		10YR66 00 C		Y		0		0		M		
	65-90	1fs	10YR72 00	10YR68 00 M		Υ	0	0		0		M		
	90-120	fs	05Y 61 00	10YR68 00 M		Y	0	0		0		M		
35	0-30	mcl	10YR41 42	10YR46 00 F			0	0		0				
	30-40	hcl		10YR66 00 C		Y	0	0		0		M	Y	
	40-80	С	25Y 61 62	10YR58 68 M		Y	0	0		0		P	Y	
26	0.30	1	100042.00				•	^	ш	-				
36	0-30 30-45	mcl mcl	10YR42 00	10YR56 00 C		v			HR HR	5				
	45-80	mc1 C		10YR56 00 M		Y			HR	5 2		M P	Y	
	45-00	Ç	TOTROE OO	101K30 00 F)		,	٠	۰	TIK	۲,		r	,	
37	0-35	ms i	10YR42 00	10YR56 00 C		Υ	2	0	HR	5				
	35-55	msl		10YR56 00 C		Υ	0	0	HR	5		M		
	55-78	msl		75YR56 00 M		Υ	0	0	HR	2		M		
	78-120	scl	25Y 62 00	75YR56 00 M		Y	0	0	HR	2		M	Y	
38	0-30	msl	10YR32 00						HR	20				
	30-40	msl	10YR42 00	10YR56 00 F			0	0	HR	40		M		Imp Gravelly
		_	400.00				_	_						
39	0-26	ms1	10YR41 00						HR	3				
	26-43			10YR56 00 C		Y			HR	5		M		
	43-55 55-120	ms]		10YR58 68 M 10YR58 00 M		Y		0		0		M M	Y	
	JJ-120	au I	231 33 03	יין טט טטאוטו		T	J	U		U		п	ī	

SAMPLE   DEPTH   TEXTURE   COLOUR   COL   ABJAN   CONT   COL.   CLEY   2   56   LTH   TOT   CONSIST   STR   POR   IMP   SPL   CALC					MOTTL	ES	PED			-STO	ONES-		STRUCT/	SUBS		
30-50   No.1   107982 00 757868 00 C	SAMPLE	DEPTH	TEXTURE	COLOUR									-		IMP SPL CALC	
30-50   No.1   107982 00 757868 00 C																
50-80   C	40											_				
41 0-30 ms1 10VR43 00 2 0 10VR65 00 C Y 0 0 0 M Y 0 0 0 P Y  42 0-30 ms1 10VR62 00 10VR66 00 C Y 0 0 0 0 P Y  42 0-30 ms2cl 75VR44 00 0 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 0 M Y 0 0 M Y 0 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 M M WHAT MARKET WAS A STANDARD WAS A				•							∃R					V Wet
30-70 ms1 10YR62 00 10YR66 00 C		50-80	C	10YR62 00	75YR68 00	M		Y	0	0		0		P	Y	
70-120 c 10yR63 00 10yR68 71 M Y 0 0 0 0 P Y  42 0-30 mzc1 75yR44 00	41	0-30	msl	10YR43 00					2	0 1	HR	2				
42		30-70	msl	10YR62 00	10YR66 00	С		Y	0	0		0		М	•	
30-40 mzc1 107853 00 757846 00 C		70-120	С	10YR63 00	10YR68 71	M		Y	0	0		0		Р	Y	
30-40 mzc1 107853 00 757846 00 C	42	0-30	mzcl	75YR44 00					0	0 1	HR	0				
40-70 mc1 10YR53 00 75YR66 00 C						С		Υ						м		
70-120 c 75YR58 00 75YR58 46 M Y 0 0 0 0 P Y  43 0-30 1ms 10YR32 00 0 0 HR 2 30-50 1ms 10YR32 00 75YR46 00 F 0 0 HR 1 1 M 50-68 ms 10YR53 00 75YR46 52 M Y 0 0 0 0 G 68-80 fs 25YR53 00 10YR55 00 M Y 0 0 0 0 M H 80-120 1fs 10YR72 00 75YR56 00 M Y 0 0 0 0 M H 44 0-30 1ms 10YR41 42 0 75YR56 00 M Y 0 0 0 M H 80-120 1fs 10YR72 00 75YR56 00 M Y 0 0 0 M H 80-120 fs 25Y 53 00 10YR56 00 C Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 M Y 0 0 0 M G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 M Y 0 0 0 M M Y 0 0 0 0										0						
30-50   Ims									0	0					Y	
30-50   Ims	42	0.00		********					•		100	2				
S0-68 ms	43					-										
68-80 fs 259R63 00 10YR56 00 M Y 0 0 0 0 M Hett  80-120 1fs 10YR72 00 75YR56 00 M Y 0 0 0 0 M M  44 0-30 1ms 10YR41 42 0 0 0 0 0 M M  55-80 ms 10YR44 54 10YR56 00 C Y 0 0 0 M G G M G G G G G G G G G G G G G								v			nĸ					
80-120 1fs 10/R72 00 75/R56 00 M Y 0 0 0 M  44 0-30 1ms 10/R41 42									-							lilat
44																Met
30-65 lms 10YR44 54 10YR56 00 C		60-120	ITS	104872 00	751K30 00	М		Ţ	v	U		Ü		m		
65-80 ms 10YR53 00 10YR68 00 M Y 0 0 0 G G 80-120 fs 25Y 53 00 75YR68 00 M Y 0 0 0 HR 2 M   45 0-26 mc1 10YR41 42 10YR46 00 F 0 0 0 0 P Y 0 0 0 HR 2 0 0 0 P Y 0 0 0 0 P Y 0 0 0 0 P Y 0 0 0 0	44	0-30	lms	10YR41 42					0	0	HR	2				
80-120 fs		30-65	lms	10YR44 54	10YR56 00	С		Y	0	0		0		M		
45  0-26  mc1  10YR41 42 10YR46 00 F		65-80	ms	10YR53 00	10YR68 00	М		Y	0	0		0		G		
26-60 c 25Y 53 63 10YR58 68 M Y 0 0 0 0 P Y  46 0-30 mc1 10YR43 00 0 0 0 HR 2 30-40 sc1 10YR53 00 75YR58 00 C Y 0 0 HR 5 M Y 40-80 c 10YR63 00 75YR68 00 M Y 0 0 0 P 11ght/ Sandy  47 0-38 ms1 10YR32 00 4 0 HR 10 38-65 lms 10YR53 00 10YR56 00 C Y 0 0 HR 5 M 65-75 ms1 10YR63 00 10YR56 00 C Y 0 0 HR 2 M 75-95 sc1 10YR62 00 75YR56 00 M Y 0 0 0 HR 2 M 95-120 sc1 25Y 62 00 75YR56 00 M Y 0 0 0 HR 10 30-50 ms1 10YR32 00 75YR46 00 C Y 0 0 HR 10 30-50 ms1 10YR32 00 75YR46 00 C Y 0 0 HR 10 50-60 ms1 10YR32 00 75YR46 00 C Y 0 0 HR 3 30-40 msz1 10YR32 00 75YR46 00 C Y 0 0 HR 3 30-40 msz1 10YR32 00 75YR46 00 C Y 0 0 HR 3 30-40 msz1 10YR32 00 10YR56 00 M Y 0 0 HR 3 30-40 msz1 10YR32 00 10YR56 00 M Y 0 0 HR 5 M 40-70 ms1 10YR32 00 10YR36 00 C Y 0 0 HR 5 M 40-70 ms1 10YR31 00 10YR36 00 C Y 0 0 HR 5 M 70-120 sc1 25Y 63 00 10YR56 68 M Y 0 0 0 M Y		80-120	fs	25Y 53 00	75YR68 00	М		Y	0	0	HR	2		M		
26-60 c 25Y 53 63 10YR58 68 M Y 0 0 0 0 P Y  46 0-30 mc1 10YR43 00 0 0 0 HR 2 30-40 sc1 10YR53 00 75YR58 00 C Y 0 0 HR 5 M Y 40-80 c 10YR63 00 75YR68 00 M Y 0 0 0 P 11ght/ Sandy  47 0-38 ms1 10YR32 00 4 0 HR 10 38-65 lms 10YR53 00 10YR56 00 C Y 0 0 HR 5 M 65-75 ms1 10YR63 00 10YR56 00 C Y 0 0 HR 2 M 75-95 sc1 10YR62 00 75YR56 00 M Y 0 0 0 HR 2 M 95-120 sc1 25Y 62 00 75YR56 00 M Y 0 0 0 HR 10 30-50 ms1 10YR32 00 75YR46 00 C Y 0 0 HR 10 30-50 ms1 10YR32 00 75YR46 00 C Y 0 0 HR 10 50-60 ms1 10YR32 00 75YR46 00 C Y 0 0 HR 3 30-40 msz1 10YR32 00 75YR46 00 C Y 0 0 HR 3 30-40 msz1 10YR32 00 75YR46 00 C Y 0 0 HR 3 30-40 msz1 10YR32 00 10YR56 00 M Y 0 0 HR 3 30-40 msz1 10YR32 00 10YR56 00 M Y 0 0 HR 5 M 40-70 ms1 10YR32 00 10YR36 00 C Y 0 0 HR 5 M 40-70 ms1 10YR31 00 10YR36 00 C Y 0 0 HR 5 M 70-120 sc1 25Y 63 00 10YR56 68 M Y 0 0 0 M Y	45	0-26	mc1	10YR41 42	10YR46 00	F			0	0		0				
46								Υ	0	0				Р	Y	
30-40 scl 10YR53 00 75YR58 00 C																
40-80 c 10YR63 00 75YR68 00 M Y 0 0 0 0 P 11ght/ Sandy  47 0-38 ms1 10YR32 00	46		mcl													
47 0-38 ms1 10YR32 00			scl								HR				Y	
38-65 lms 10YR53 00 10YR56 00 C		40-80	С	10YR63 00	75YR68 00	М		Υ	0	0		0		P		1ight/ Sandy
65-75 ms1 10YR63 00 10YR56 00 C	47	0-38	msl	10YR32 00	l				4	0	HR	10				
75-95 sc1 10YR62 00 75YR56 00 M		38-65	lms	10YR53 00	10YR56 00	С		Υ	0	0	HR	5		M		
95-120 sc1		65-75	msl	10YR63 00	10YR56 00	С		Y	0	0	HR	2		M		
48		75-95	scl	10YR62 00	75YR56 00	M		Y	0	0		0		M	Y	
30-50 ms1 10YR42 00 75YR46 00 C Y 0 0 HR 20 M V Het 50-60 ms1 10YR52 00 10YR56 00 M Y 0 0 HR 40 M Saturated, Imp.  49 0-30 ms1 10YR42 00 0 0 HR 3 330-40 msz1 10YR41 31 10YR46 00 F 0 0 0 M M 40-70 ms1 10YR51 00 10YR46 00 C Y 0 0 HR 5 M 70-120 sc1 25Y 63 00 10YR58 68 M Y 0 0 0 M Y  50 0-30 mc1 10YR41 00 75YR46 00 C Y 0 0 HR 10 P Y		95-120	scl	25Y 62 00	75YR56 00	М		Y	0	0		0		Þ	Y	
30-50 ms1 10YR42 00 75YR46 00 C Y 0 0 HR 20 M V Het 50-60 ms1 10YR52 00 10YR56 00 M Y 0 0 HR 40 M Saturated, Imp.  49 0-30 ms1 10YR42 00 0 0 HR 3 330-40 msz1 10YR41 31 10YR46 00 F 0 0 0 M M 40-70 ms1 10YR51 00 10YR46 00 C Y 0 0 HR 5 M 70-120 sc1 25Y 63 00 10YR58 68 M Y 0 0 0 M Y  50 0-30 mc1 10YR41 00 75YR46 00 C Y 0 0 HR 10 P Y	48	0-30	msì	10YR32 00	75YR46 00	С		Υ	0	0	HR	10				
49  0-30  ms1  10YR42 00		30-50	ms 1					Y	0	0	HR	20		M		V Wet
30-40 mszl 10YR41 31 10YR46 00 F		50-60	ms?	10YR52 00	10YR56 00	M		Y	0	0	HR	40		M		Saturated, Imp.
30-40 mszl 10YR41 31 10YR46 00 F	49	0-30	ms l	10YR42 00	l				٥	0	HR	3				
40-70 ms1 10YR51 00 10YR46 00 C	••					F								м		
70-120 sc1 25Y 63 00 10YR58 68 M Y 0 0 0 M Y  50 0-30 mc1 10YR41 00 75YR46 00 C Y 0 0 0 30-50 c 10YR63 73 75YR56 00 M Y 0 0 HR 10 P Y								Υ			HR					
50 0-30 mc1 10YR41 00 75YR46 00 C Y O O O O 30-50 C 10YR63 73 75YR56 00 M Y O O HR 10 P Y															Y	
30-50 c 10YR63 73 75YR56 00 M Y 0 0 HR 10 P Y								•	-	-		-		••	•	
	50	0-30	mcl					Υ	0	0		0				
50-80 c 10YR62 00 75YR68 00 M Y 0 0 0 P Y		30-50	С					Y			HR	10		P		
		50-80	С	10YR62 00	75YR68 00	М		Y	0	0		0		₽	Y	

SAMPLE DEPTH TEXTURE OCIOUS COL. ABUN COL. OX. OX. OX. OX. OX. OX. OX. OX. OX. OX					MOTTLES	S	PED			_97	MES	<b>.</b>	STRIKT/	SUBS		
Si	SAMPLE	DEPTH	TEXTURE	COLOUR				GLFY							SPL CALC	
30-45									_	•						
# 45-80   Tess   10Y863 00 10Y868 71 M	51	0-30	msl	10YR42 00					8	1	HR	8				
80-120   C		30-45	msl	10YR53 00	10YR56 00 C			Y	0	0	HR	3		M		
S2		45-80	1ms	10YR63 00	10YR68 71 M			Y	0	0		0		M		
25-35   hcl		80-120	c	10YR63 00	10YR68 71 M			Y	0	0		0		P	Y	
25-35   hcl	52	0-25	mcl	10YR42 00	75YR46 00 C			Y	0	0		0				
35-60 hcl 109462 00 759768 00 M			hcl				10YR51				HR			M		
60-75   sc    05CY61 00 10Y868 00 M		35-60	hcl												٧	V Heavy
30-50 lms 10YR43 00 75YR46 00 C S 0 0 HR 10 H   50-75 ms 10YR43 00 75YR56 00 M S 0 0 HR 5 G M   Het   54 0-28 lms 10YR41 00 75YR56 00 M Y 0 0 0 HR 5 M   40-70 lms 10YR44 54		60-75	scl													•
30-50 lms 10YR43 00 75YR46 00 C S 0 0 HR 10 H   50-75 ms 10YR43 00 75YR56 00 M S 0 0 HR 5 G   75-120 fs 25Y 63 00 75YR56 00 M Y 0 0 0 0 H   Wet.  54 0-28 lms 10YR41 00 0 0 0 HR 5 M   40-70 lms 10YR44 30 0 0 0 0 HR 5 M   40-70 lms 10YR44 54 0 0 0 0 0 M   70-120 ms 25Y 62 00 10YR68 00 M Y 0 0 0 0 M   70-120 ms 25Y 62 00 10YR68 00 C Y 0 0 H   35-55 hc1 10YR41 00 10YR46 00 F	E3	0-30	]mo	100022 00						^	UD	16				
S0-75	33							_								
75-120 fs																
54											нк					tilad
28-40   lms		75-120	15	251 63 00	751K50 00 M			•	U	U		U		m		Wet
40-70   lms	54	0-28	ìms	10YR41 00					0	0	HR	2				
70-120 ms		28-40	lms	10YR43 00					0	0	HR	5		M		
S5		40-70	lms	10YR44 54					0	0		0		M		
25-35		70-120	ms	25Y 62 00	10YR68 00 M			Y	0	0		0		G		Wet at 80
25-35		0.05							_	_						
35-55 hcl 257 62 00 10YR58 00 M Y 0 0 0 0 M Imp Flints  55-65 msl 257 61 00 75YR58 00 M Y 0 0 HR 10 M Imp Flints  56 0-28 mcl 10YR41 00 10YR46 00 F 0 0 HR 2 28-55 hcl 10YR42 53 10YR58 00 M Y 0 0 HR 15 M Y Q SPL/Disturbed 55-90 c 25Y 61 00 10YR58 68 M Y 0 0 0 HR 2 30-55 scl 10YR63 00 10YR68 00 M Y 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 HR 5 M Y D 0 HR 5 M M M Y D 0 HR 5 M M M Y D 0 M M M M M M M M M M M M M M M M M M	55															
55-65 ms1 25Y 61 00 75YR59 00 M Y 0 0 HR 10 M Imp Flints  56 0-28 mc1 10YR41 00 10YR46 00 F																
56																
28-55 hc1 107R42 53 107R58 00 M		55-65	ms i	25Y 61 00	/5YR58 00 M			Y	Q	U	HR	10		М		Imp Flints
55-90 c 25Y 61 00 10YRS8 68 M Y 0 0 0 0 P Y  57  0-30 mc1 10YR42 00 0 0 HR 2 30-55 sc1 10YR63 00 10YR68 00 M Y 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 HR 5 25-43 ms1 10YR53 00 10YR68 00 C Y 0 0 HR 5 25-43 ms1 10YR53 00 10YR68 00 M Y 0 0 HR 5 43-60 ms1 25Y 63 00 10YR68 00 M Y 0 0 HR 20 M 60-75 sc1 25Y 62 00 10YR58 68 M Y 0 0 HR 30 M Y Imp Flints  59  0-28 ms1 10YR41 00 0 0 HR 2 28-50 ms1 10YR62 00 10YR68 00 C Y 0 0 HR 5 M 50-68 ms1 25Y 63 00 10YR68 00 C Y 0 0 HR 5 M 68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 HR 5 M 68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 HR 5 M 68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 HR 8 25-50 1ms 10YR53 00 0 0 HR 8 25-50 1ms 10YR53 00 0 0 HR 8 50-60 ms 10YR73 00 0 0 HR 15 M 50-60 ms 10YR73 00 0 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 0 HR 10 M 50-80 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR42 00 Thin stony band	56	0-28	mc1	10YR41 00	10YR46 00 F				0	0	HR	2				
57  0-30 mc1  10YR42 00		28-55	hc1	10YR42 53	10YR58 00 M			Y	0	0	HR	15		M	Υ	Q SPL/Disturbed
30-55 sc1 10YR63 00 10YR68 00 M Y 0 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 0 P Y		55-90	С	25Y 61 00	10YR58 68 M			Y	0	0		0		P	Y	
30-55 sc1 10YR63 00 10YR68 00 M Y 0 0 0 HR 5 M Y Q SPL/Disturbed 55-90 c 25Y 53 00 10YR68 00 M Y 0 0 0 P Y	57	n_3n	mc]	100042 00					0	Λ	ИD	2				
55-90 c 25Y 53 00 10YR68 00 M Y 0 0 0 P Y  58	3,							v						м	V	O SDI /Disturbed
58											ПK					Q SPL/DIStarbed
25-43 ms1 10YR53 00 10YR66 00 C		55 55	J	251 55 00	1011100 00 11			•	·	Ū		·		•	•	
43-60 ms1 25Y 63 00 10YR68 00 M Y 0 0 HR 20 M Y 1 mp Flints  59 0-28 ms1 10YR41 00 0 HR 2 28-50 ms1 10YR62 00 10YR68 00 M Y 0 0 HR 5 M 50-68 ms1 25Y 63 00 10YR68 00 M Y 0 0 HR 5 M 68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 HR 5 M 68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 HR 8 25-50 lms 10YR43 00 0 HR 8 25-50 lms 10YR43 00 0 HR 8 25-50 lms 10YR43 00 0 HR 15 M 50-60 ms 10YR73 00 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band	58		rsn [	10YR41 00					0	0	HR	5				
60-75 sc1 25Y 62 00 10YR58 68 M Y 0 0 HR 30 M Y Imp Flints  59 0-28 ms1 10YR41 00 0 0 HR 2 28-50 ms1 10YR62 00 10YR68 00 C Y 0 0 HR 5 M 50-68 ms1 25Y 63 00 10YR68 00 M Y 0 0 HR 5 M 68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 HR 8 25-50 lms 10YR53 00 0 0 HR 15 M 50-60 ms 10YR53 00 0 0 HR 15 M 50-60 ms 10YR73 00 0 0 HR 15 M 50-80 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band		_	msl	10YR53 00	10YR46 00 C			Y	0	0	HR	5		M		
59			msl	25Y 63 00	10YR68 00 M			Y	0	0	HR	20		M		
28-50 ms1 10YR62 00 10YR68 00 C		60-75	scl	25Y 62 00	10YR58 68 M			Y	0	0	HR	30		M	Y	Imp Flints
50-68 msl 25Y 63 00 10YR68 00 M Y 0 0 HR 5 M Y 0 0 HR 5 M Y 0 0 HR 5 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M Y 0 0 M M Y 0 0 M M Y 0 0 M M Y 0 0 M M Y 0 0 M M Y 0 0 M M M Y 0 0 M M M M	59	0-28	msl	10YR41 00	l				0	0	HR	2				
68-120 sc1 25Y 63 00 10YR58 00 M Y 0 0 0 0 M Y  60 0-25 ms1 10YR43 00 0 0 HR 8 25-50 lms 10YR53 00 0 0 HR 15 M 50-60 ms 10YR73 00 0 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band		28-50	msl	10YR62 00	10YR68 00 C			Y	0	0	HR	5		м		
60 0-25 ms1 10YR43 00 0 HR 8 25-50 lms 10YR53 00 0 HR 15 M 50-60 ms 10YR73 00 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band		50-68	msl	25Y 63 00	10YR68 00 M			Υ	0	0	HR	5		М		
25-50 lms 10YR53 00 0 HR 15 M 50-60 ms 10YR73 00 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band		68-120	sc1	25Y 63 00	10YR58 00 M			Y	0	0		0		M	Y	
25-50 lms 10YR53 00 0 HR 15 M 50-60 ms 10YR73 00 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band	60	0-25	msl	10YR43 00	<b>)</b>				n	n	НΩ	R				
50-60 ms 10YR73 00 0 HR 30 G Imp Gravelly  61 0-30 ms1 10YR42 00 0 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band														м		
61 0-30 ms1 10YR42 00 0 HR 10 30-50 ms1 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band																Imp Gravelly
30-50 ms? 10YR42 41 75YR56 00 C Y 0 0 HR 10 M 50-80 ms? 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band																. •
50-80 ms1 10YR63 00 75YR58 00 C Y 0 0 HR 10 M Thin stony band	61		msl	10YR42 00	l							10				
			msl					Y	0	0	HR	10		М		
80-120 c 10YR61 00 75YR68 00 M Y 0 0 0 P Y V Heavy								γ			HR	10				
		80-120	С	10YR61 00	75YR68 00 M			Y	0	0		0		P	Y	V Hea∨y

50-120 ms

10YR62 00

Saturated at 70

----MOTTLES----- PED ----STONES---- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 0-25 mc1 10YR44 00 0 0 75YR46 00 05YR46 00 C 00MN00 00 Y 0 0 0 25-55 നമി М 0 55-75 hc1 75YR52 00 75YR46 00 C 00MN00 00 Y 0 0 М Y 0 0 75-90 sc1 10YR62 00 75YR58 00 C 0 M Saturated/I Grav 0-25 mc1 10YR41 00 75YR46 00 C Y 0 0 0 25-40 с 10YR51 00 10YR56 00 M Y 0 0 V Wet 0 Y 0 0 HR 30 40-50 c 10YR51 00 10YR56 00 M Ρ Saturated 0-30 ms1 10YR42 00 0 0 HR 8 Y 0 0 HR 10 30-50 1ms 10YR53 00 75YR58 00 C M 10YR73 00 75YR58 00 C 50-120 ms Y 0 0 HR 10 G 0-30 lms 10YR31 00 0 0 HR 10 30-50 ms 10YR42 00 0 0 HR 15 G G

0 O HR 2