NEW FOREST DISTRICT LOCAL PLAN Objection Sites 2 and 4 Land North and South of Milford Road Pennington Agricultural Land Classification ALC Map and Report

February 1997

**A1** 

Resource Planning Team Eastern Region FRCA Reading RPT Job Number 1508/023/97 FRCA Reference EL 15/00315 LURET Job Number 02768

### AGRICULTURAL LAND CLASSIFICATION REPORT

# NEW FOREST DISTRICT LOCAL PLAN OBJECTION SITES 2 AND 4 LAND NORTH AND SOUTH OF MILFORD ROAD, PENNINGTON HAMPSHIRE

## Introduction

1 This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of approximately 20 hectares of land to the north and south of Milford Road Pennington near Lymington The survey was carried out during February 1997

2 The survey was commissioned by the Ministry of Agriculture Fisheries and Food (MAFF) from its Land Use Planning Unit in Reading in connection with its statutory input to the New Forest District Local Plan the site is one of a number of objector sites The results of this survey supersede any previous ALC information for this land Part of the site currently being considered was surveyed in 1990 (FRCA Ref 1508/11/90) This land has subsequently been worked for minerals land filled and the soils reinstated The land has been in aftercare for less than 5 years As a result it has not been surveyed this time round

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

4 At the time of survey the agricultural land on this site was in permanent grassland The areas of the site shown as Other Land consist of woodland farm buildings and tracks ponds or residential development

### Summary

5 The findings of the survey are shown on the enclosed ALC map The map has been drawn at a scale of 1 10 000 It is accurate at this scale but any enlargement would be misleading

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

7 The fieldwork was conducted at an average density of 1 boring per hectare A total of 11 borings and 2 soil pits were described

8 The land at this site has been classified as Subgrade 3a (good quality) and Subgrade 3b (moderate quality) The key limitations are soil wetness and/or soil droughtiness

Grade/Other land	Area (hectares)	% Survey area	% Total site area
3a	79	83 2	38 7
3b	16	168	79
Other land	8 0	-	39 2
Agricultural land not surveyed	29	-	14 2
Total Survey Area	95	100	
Total site area	20 4		100

## Table 1 Area of grades and other land

9 Approximately half of the soil profiles display wetness problems to varying degrees The topsoils are dominantly clay loams These usually overlie similar subsoils which either directly or indirectly rest over poorly structured clay The depth to these clayey horizons will determine the degree of impeded drainage and therefore the final ALC grade Where clay horizons are shallow the drainage will be severely restricted and land is classified as Subgrade 3b whereas clay horizons deeper in the profile give rise to Subgrade 3a Occasional profiles which suffer from wetness problems also become impenetrable to the auger at depth

10 The remainder of the soil profiles display similar characteristics to those described above but are generally sandier and sometimes much stonier at varying depths All of these profiles are impenetrable to the auger to differing degrees As a consequence borings of slightly worse or better quality are found The combination of these soil properties and the prevailing climate results in a slight soil droughtiness limitation where these soil types occur and the land is classified as Subgrade 3a

# Factors Influencing ALC Grade

## Climate

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

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

13 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

14 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR) as a measure of overall wetness and accumulated temperature (AT0 January to June) as a measure of the relative warmth of a locality

	Units	Values	Values
Grid reference	N/A	SZ 313 941	SZ 307 944
Altitude	m AOD	10	15
Accumulated Temperature	day°C	1555	1550
Average Annual Rainfall	mm	800	811
Field Capacity Days	days	166	168
Moisture Deficit Wheat	mm	114	112
Moisture Deficit Potatoes	mm	110	108

## Table 2Climatic and altitude data

15 The combination of rainfall and temperature at this site mean that there is no overall climatic limitation Frost risk is not believed to adversely affect the land quality on the site though unpublished information suggests that the site may be rather exposed (Met Office 1968) However site assessment suggests this is not the case the land being sheltered from the prevailing south westerlies by housing development All of the land on the site is climatically Grade 1

## Site

16 The agricultural land at this site lies at an altitude of 5-15m AOD The majority of the land at the site is flat or very gently sloping with slight undulations Nowhere does gradient or microrelief affect agricultural land quality

## Geology and soils

17 The published geological information for the site (BGS 1975) shows the site to be underlain plateau gravel (drift) and Osbourne and Headon Beds (solid Oligocene deposit) The Osbourne deposits comprise brackish and freshwater clays and marls with occasional hard bands of concretionary limestone The Headon Beds consist of coloured clays occasional sand beds some lignite and bands of limestone

18 The most recently published soil information for the site (SSEW 1983) shows the Efford 1 association to be mapped in the eastern half of the site and the Shabbinton association mapped in the western half. The former soils are described as well drained fine loamy soils often over gravel associated with similar permeable soils variably affected by groundwater (SSEW 1983). The latter soil types are described as deep fine loamy and fine loamy over sandy soils variably affected by groundwater. Some slowly permeable seasonally waterlogged fine loamy over clayey soils (SSEW 1983).

19 Upon detailed field examination soils consistent with the above description were found to exist across the site

## Agricultural Land Classification

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

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

## Subgrade 3a

The majority of the site to the north and west is mapped as good quality agricultural land The land is affected by a combination of wetness and droughtiness restrictions The soil falls into two variants

Firstly many of the profiles comprise non-calcareous stoneless or very slightly stony (0-6% total flints with 0 3% > 2cm) medium clay loam topsoils These rest over stoneless or slightly stony (0 10% total flints) medium or heavy clay loam or occasionally sandy clay loam upper subsoils Lower subsoils consist of similar textures but sometimes become lighter at depths between 55 and 67 cm These subsoils are often gleyed between 30 and 45 cm (wetness classes I and II) and become more gravelly with depth (up to 49% total flints) eventually becoming impenetrable to the soil auger at depths between 50 and 80 cm Pit 1 is typical of these soils The combination of soil texture and hard stone resticts the water availability to crops such that there is a slight risk of drought stress to plants in most years Within the prevailing climatic conditions Subgrade 3a is most appropriate Land of this quality could be expected to produce moderate yields of a wide range of crops principally cereals and grass

The second group of soils within the Subgrade 3a unit comprise soils where drainage is impeded due to the presence of slowly permeable clay at moderate depths (48 60 cm) This impeded drainage gives rise to gleyed medium clay loam or medium silty clay loam topsoils that are stoneless or very slightly stony (0 5% total flints with 0 3% > 2cm diameter) which overlie similar subsoils that become heavier with depth Pit 2 is representative of these soils Such profiles were thereby assessed as wetness class III the principal limitation being soil wetness which restricts the agricultural land quality to a maximum of Subgrade 3a

## Subgrade 3b

A small area of moderate quality land has been mapped to the south east of the site This land is limited by soil wetness

Within this unit profiles encountered had impeded drainage arising from the occurrence of slowly permeable clay horizons at shallow depths (< 45cm) The majority of profiles consist of stoneless or very slightly stony (0 1% total flints and 0% > 2cm diameter) non calcareous often gleyed medium clay loam topsoils sometimes lying over shallow heavy clay loam upper subsoil horizons with similar characteristics to the topsoils Profiles pass to slowly permeable clay at shallow depth This has the effect of slowing water flow through the profile to the extent that air is excluded from the soil by water for long periods leading to poor root development and plant growth Excessive soil wetness also leads to a reduction in the opportunities for cultivation and/or grazing such that within the prevailing local climatic regime wetness class IV Subgrade 3b is appropriate for this unit

> Sharron Cauldwell Resource Planning Team FRCA, Reading

## SOURCES OF REFERENCE

British Geological Survey (1975) Sheet No 330 Lymington 1 63 360 scale (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 (1968) Unpublished climatic data relating to old series OS 1 63 360 scale Sheet 180 Met Office Bracknell

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

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

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

## **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 DATA

Contents

Sample location map

Soil abbreviations - explanatory note

Soil pit descriptions

Soil boring descriptions (boring and horizon levels)

### SOIL PROFILE DESCRIPTIONS EXPLANATORY NOTE

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

#### Boring Header Information

- 1 GRID REF national 100 km grid square and 8 figure grid reference
- 2 USE Land use at the time of survey The following abbreviations are used

ARA	Arable	WHT	Wheat	BAR	Barley
CER	Cereals	OAT	Oats	MZE	Maize
OSR	Oilseed rape	BEN	Field beans	BRA	Brassicae
POT	Potatoes	SBT	Sugar beet	FCD	Fodder crops
LIN	Linseed	FRT	Soft and top fruit	FLW	Fallow
PGR	Permanent pasture	LEY	Ley grass	RGR	Rough grazing
SCR	Scrub	CFW	Coniferous woodland	ОТН	Other
DCW	Deciduous woodland	BOG	Bog or marsh	SAS	Set Aside
HTH	Heathland	HRT	Horticultural crops	PLO	Ploughed

- 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

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

Soil Pits and Auger Borings

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

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

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

- **F** Fine (more than 66% of the sand less than 0 2mm)
- M Medium (less than 66% fine sand and less than 33% coarse sand)
- C Coarse (more than 33% of the sand larger than 0 6mm)

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

- 2 MOTTLE COL Mottle colour using Munsell notation
- 3 MOTTLE ABUN Mottle abundance expressed as a percentage of the matrix or surface described

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

- 4 MOTTLE CONT Mottle contrast
  - F faint indistinct mottles evident only on close inspection
  - D distinct mottles are readily seen
  - P prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour using Munsell notation
- 6 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	FSST	soft fine grained sandstone
ZR	soft argillaceous or silty rocks	СН	chalk
MSST	soft medium grained sandstone	GS	gravel with porous (soft) stones
SI	soft weathered	GH	gravel with non porous (hard)
	igneous/metamorphic rock		stones

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 ST	weakly developed strongly developed	MD	moderately developed
Ped size	F C	fine coarse	М	medium
Ped shape	S GR SAB PL	sıngle graın granular sub angular blocky platy	M AB PR	massive angular blocky prismatic

9 CONSIST Soil consistence is described using the following notation

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

- 10 SUBS STR Subsoil structural condition recorded for the purpose of calculating profile droughtiness G good M moderate P poor
- 11 **POR** Soil porosity If a soil horizon has less than 0.5% biopores >0.5 mm a 'Y will appear in this column
- 12 IMP If the profile is impenetrable to rooting a 'Y' will appear in this column at the appropriate horizon
- 13 SPL Slowly permeable layer if the soil horizon is slowly permeable a 'Y' will appear in this column
- 14 CALC If the soil horizon is calcareous a 'Y will appear in this column
- 15 Other notations
  - APW available water capacity (in mm) adjusted for wheat
  - APP available water capacity (in mm) adjusted for potatoes
  - MBW moisture balance wheat
  - MBP moisture balance potatoes

#### SOIL PIT DESCRIPTION

Site Name	B NEW FO	REST DLP- S	ITE 2	Pit Number	1	P				
Grid Refe	erence SZ <sup>3</sup>	30809440	Average Annu	al Rainfall	80	0 നന				
			Accumulated	Temperature	155	5 degree	days			
			Field Capaci	ty Level	168	days				
			Land Use		Per	manent Gr	ass			
			Slope and As	pect		degrees				
		_	<b>-</b> -	_		_	<b>-</b>	_		
HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	MCL	10YR41 42	2 3	5	HR					
30- 42	MCL	10YR42 00	) 0	10	HR		MDCSAB	FR	м	
42- 55	HCL	10YR52 00	) 0	35	HR	С			м	
55- 60	C	10YR53 00	0	55	HR	м			н	
60- 75	LCS	10YR53 00	) ()	55	HR	M			M	
Wetness (	Grade		Wetness Clas	s						
			Gleving	042	Cm					
			SPL		cm					
Drought (	Grade 38		APW 086mm	MBW -21	8 mm					
			APP 090mm	MBP -2	0					
Drought (	Grade 38		APW 086mm APP 090mm	MBN -21 MBP -21	8 mm 0 mm					

FINAL ALC GRADE 3A MAIN LIMITATION Droughtiness

#### SOIL PIT DESCRIPTION

Site Name	• NEW FO	REST DLP- S	ITE 2	Pit Number	2	?P				
Grid Refe	arenca SZ	30709450 // /     	Average Annu Accumulated Field Capaci Land Use Slope and As	al Rainfall Temperature ty Level :pect	80 155 168 Per 01	0 mm 5 degree 1 days manent Gr degrees N	days ass			
HORIZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 25	MCL	10YR41 42	3	5	HR	Ç				
25- 52	MCL	10YR52 00	0	10	HR	C	MDCSAB	FR	M	
52- 90	С	25 Y72 00	0	0		M	WKCSAB	FM	Р	
Wetness (	Grade 3A	1	Wetness Clas Gleying	s III 0	Ċm					
			SPL	052	Cm					
Drought (	Grade		APW 000mm	MBW	0 mm					
		,	APP 000mm	MBP	0 mm					
FINAL ALC	GRADE	3A								
MAIN LIM	ITATION 6	letness								

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LIST OF BORINGS HEADERS 30/04/97 NEW FOREST DLP- SITE 2

	SAMPI	LE		ASPECT				WET	NESS		EAT-	-PC	DTS-	м	REL	EROSN	FROST	CHEM	ALC	
	NO	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	Ð	P DIST	LIMIT		COMMENTS
-	1P	SZ30809440	PGR			042				086	-28	090	-20	38				DR	за	ASSUME TO 120
	2	SZ30709450	PGR	N	01	0	060	3	3A	000	0	000	0					WE	3A	SEE PIT 2
-	2P	SZ30709450	PGR	N	01	0	052	3	3A	000	0	000	0					WE	3A	
	3	SZ30809448	PGR			040		1	1	079	-35	079	-31	38				DR	3A	IMP 50 SEE PIT
	4	SZ30709440	PGR			030		2	2	066	-48	066	-44	38				DR	3B	IMP 40 SEE PIT
	5	SZ30809440	PGR			030		2	2	088	-26	093	-17	3B				DR	3A	IMP 60 SEE PIT
	6	SZ30809430	PGR					1	1	109	-5	107	-3	3A				DR	3A	IMP 80 SEE PIT
	7	SZ30909430	PGR			022		2	2	110	-4	110	0	3A				DR	3A	IMP 79 SEE PIT
-	8	SZ31209418	PGR	NĘ	02	0	048	3	3A	000	0	000	0					WE	3A	SEE PIT 2
	9	SZ31309420	PGR			0	028	4	3B	082	-32	087	-23	3B				WE	3B	IMP 58 SEE PIT
	10	SZ31139409	PGR			0		2	2	093	-21	098	-12	3B				DR	3A	IMP 60 SEE PIT
	11	SZ31209410	PGR			032	040	4	3B	090	-24	098	-12	38				WE	38	IMP 70 SEE PIT
	12	SZ31309410	PGR			020	035	4	3B	000	0	000	0					WE	3B	SEE PIT 2

page 1

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COMPLETE LIST OF PROFILES 30/04/97 NEW FOREST DLP- SITE 2

page 1

1					OTTLES	;	PED		÷	-S'	TONES		STRUCT/	SUB	IS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	>2	>6	LITH	тот	CONSIST	STR	POR	IMP	SPL CALC	
1P	0-30	mcl	10YR41 42						3	0	HR	5						
	30-42	mc]	10YR42 00						0	0	HR	10	MDCSAB F	RM				
l i	42-55	hc]	10YR52 00	75YR5	8 00 C	C	DOMNOO	00 Y	0	0	HR	35		Μ				
	55-60	с	10YR53 00	75YR5	M 00 8			Y	0	0	HR	55		M				
	60~75	1 <b>cs</b> -	10YR53 00	75YR5	8 00 M			Y	0	0	HR	55		M				ASSUME TO 120
2	030	mcl	10YR42 00	75YR4	5 00 C			Y	0	0	HR	2						WITH MS
	30-60	തറി	10YR53 00	75YR4	5 00 C			Y	0	0	HR	10		м				
	60-90	с	10YR53 00	75YR5	8 00 C			Y	0	0	HR	2		Ρ			Y	
2P	0-25	mcl	10YR41 42	75YR4	6 00 C			Y	3	0	HR	5						WITH MS
	25-52	mcl	10YR52 00	75YR5	6 00 C			Y	0	0	HR	10	MDCSAB F	RM				
ļ	52-90	c	25 Y72 00	75YR6	8 00 M			Y	0	0		0	WKCSAB F	MP	Y		Y	
3	0-30	mcl	10YR42 00						0	0	HR	5						WITH MS
ļ	30-40	acl	10YR43 00						0	0	HR	10		M				
_	40-50	สตรา	10YR53 00	75YR5	8 00 C			Y	0	0	HR	20		М				IMP GRAVELLY
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J	30-40	mcl	10YR52 00	75YR5	6 00 C			Y	0	0	HR	20		M				IMP GRAVELLY
5	0-30	mcl	10YR42 00						0	0	HR	5						WITH MS
Ť	30-45	mcl	10YR52 00	75YR5	6 00 C			Y	0	0	HR	5		м				
-	45-55	hcl	10YR52 00	75YR5	6 00 C			Ŷ	Ō	Ō	HR	15		м				
	55-60	c	10YR53 00	75YR6	B 00 M			Y	0	0	HR	20		Ρ				IMP GRAVELLY
6	0 25	mcl	10YR42 32						0	0	HR	6						WITH MS
	25-43	mcl	10YR41 42						0	0	HR	4		M				
	43-55	scl	10YR42 00						0	0	HR	10		M				
	55-80	msl	10YR43 52						0	0	HR	10		M				IMP GRAVELLY
7	0-22	mcl	10YR32 42						0	0		O						WITH MS
	22-50	scl	10YR41 42	10YR5	6 00 C			Y	0	0	HR	1		M				
	50-67	scl	10YR52 00	10YR5	8 00 M	(	0 <b>0mi</b> n00	00 Y	0	0	HR	4		M				
	67-79	msl	10YR44 00	75YR5	B 00 M	(	DOMNBO	00 Y	0	0	HR	8		M				IMP GRAVELLY
8	0-25	mzcl	10YR41 31	75YR4	4 00 C			Y	0	0		0						
	25-38	hc1	10YR41 51	75YR4	6 00 C			Y	0	0	HR	٦		M				
	38-48	hc1	10YR41 51	75YR5	B 00 M			Y	0	0	HR	4		M				
	48-70	c	25 Y51 52	75YR5	B 00 M			Y	0	0	HR	6		P			Y	
9	0-28	mcl	10YR31 32	75YR4	6 00 C			Y	0	0	HR	1						
	28-55	с	10YR52 51	75YR5	8 <b>00 M</b>			Y	0	0	HR	5		Ρ			Y	
_	5558	с	10YR52 51	75YR5	B 00 M			Y	0	0	HR	20		Ρ			¥	IMP GRAVELLY
10	0-25	mcl	10YR41 00	75YR4	6 00 C			Y	0	0		0						
•	25-50	hcl	10YR51 00	75YR5	6 00 Ç			¥	0	0		0		M				
-	50-60	hc1	10YR53 00	75YR5	B 00 C			Y	0	0	HR	20		M				IMP GRAVELLY

program ALCO11 COMPLETE LIST OF PROFILES 30/04/97 NEW FOREST DLP- SITE 2 

-----BOTTLES----- PED -----STONES----- STRUCT/ SUBS SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 

 0-32
 mc1
 10YR42
 00
 10YR56
 00
 F
 0
 0
 0

 32-40
 hc1
 25
 Y52
 00
 10YR58
 00
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