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West Sussex Minerals Plan Plan 1: Woodlands Farm, Slindon

Agricultural Land Classification ALC Map and Report

May 1997

Resource Planning Team Eastern Region FRCA Reading RPT Job Number: 4202/071/97 FRCA Reference: EL 42/228C

AGRICULTURAL LAND CLASSIFICATION REPORT

WEST SUSSEX MINERALS PLAN, PLAN 1: WOODLANDS FARM, SLINDON

INTRODUCTION

- 1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of approximately 31 hectares of land at Woodlands Farm, Slindon. The site comprises two parcels of land on the northern side of the A29 road, separated from each other by an area of woodland. The survey was carried out in May 1997.
- 2. The survey was undertaken by the Farming and Rural Conservation Agency (FRCA) on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF), in connection with its statutory input to the West Sussex Minerals Plan. The results of this survey supersede any previous ALC information for this land.
- 3. The work was coordinated by members of the Resource Planning Team in the Eastern Region of the FRCA, and was carried out under sub-contracting arrangements by NA Duncan and Associates. 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 eastern parcel of land was in permanent grass being grazed by dairy cattle, whilst the western area was growing maize. Two areas of 'Other Land' have been identified, an area of farm bulidings alongside Mill Road and an old pit on the northern boundary.

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.

Table 1: Area of grades and other land

Grade/Other land	Area (hectares)	% surveyed area	% site area
3b Other land	29.3 1.8	100	94.2 5.8
Total surveyed area Total site area	29.3 31.1	100	100

- 7. The fieldwork was conducted at an average density of 1 boring per hectare. A total of 32 borings and 2 soil pits were described.
- 8. The soils on the site are very similar in both areas comprising very flinty silty soils. The land is restricted to a Subgrade 3b classification due to a droughtiness limitation, with many of the profiles having a further limitation restricting the land to this subgrade due to the amount of hard stone (greater than 2 cm diameter) in the topsoil. The soils typically have a flinty silt loam or fine sandy silt loam topsoil with 15-30% stones (8-18% larger than 2 cm) overlying a very flinty medium silty clay loam upper subsoil (35-45% stones). Below 45-50 cm depth the soil is a medium silty clay loam with 70-75% flint stones, which in turn overlies a reddish brown extremely stony clay. Soil moisture balance calculations indicate that these soils are very droughty restricting the land to Subgrade 3b, moderate quality agricultural land.

FACTORS INFLUENCING ALC GRADE

Climate

- 9. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.
- 10. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5 km grid datasets using the standard interpolation procedures (Met. Office, 1989).

Factor	Units	Values	Values
Grid reference	N/A	SU 959 071	SU 967 071
Altitude	m, AOD	31	35
Accumulated Temperature	day°C (Jan-June)	1512	1507
Average Annual Rainfall	mm	809	813
Field Capacity Days	days	167	167
Moisture Deficit, Wheat	mm	113	112
Moisture Deficit, Potatoes	mm	108	107

Table 2: Climatic and altitude data

- 11. 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.
- 12. 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.
- 13. The combination of rainfall and temperature at this site mean 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 climate is relatively warm and moist, so that summer droughtiness will affect soils of low moisture holding capacity, whilst wetness during the early spring and late autumn may be enhanced on soils with impeded drainage.

14. Local climatic factors such as exposure or frost risk are not believed to affect this site.

Site

15. The site comprises two blocks of land separated by a shallow valley occupied by an area of woodland. The majority of the eastern parcel is relatively flat, lying at an altitude of approximately 35 m AOD, falling at its western side into the valley, with a gradient of 4-5°. The western part of the other parcel of land is also relatively flat, lying at an altitude of 30 m AOD and this falls with similar gradients to those described above into the central valley. Microrelief and gradient do not impose any limitation on the agricultural land quality of the site.

Geology and soils

- 16. The relevant published geological map for the area (BGS, 1957) shows the whole site to be underlain by valley gravel, with the central lower lying valley, which is not included within the site boundary, occupied by Reading Beds and a small area of Upper Chalk.
- 17. The published 1:25,000 scale soil map for the area (SSEW, 1967) shows the area to principally comprise soils of the extremely flinty phases of the Charity and Strettington series, with a small area of the extremely flinty phase of the Binsted series on the lower slope of the central valley. The three soil series are all broadly similar differing in their wetness characteristics. They are described as having flinty silt loam topsoils overlying extremely flinty silt loam/silty clay loam subsoil horizons. The Charity series is described as free draining, the Strettington series as moderately well drained whilst the Binsted soils are described as non calcareous gleys, probably due to the incorporation of Eocene derived material in the lower horizons. The current survey showed similar stony soils with both soil pits correlating with the soils of the Charity series.

AGRICULTURAL LAND CLASSIFICATION

- 18. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1, page 1.
- 19. 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 3b

20. All the agricultural land within the site boundary has been mapped as Subgrade 3b, with the main limitations being soil droughtiness and topsoil stoniness. The soils on the site are all broadly similar having a dark brown flinty silt loam or fine sandy silt loam topsoil. Topsoil stone contents at each observation point were measured using a 2 cm diameter sieve and range from 15-30%, with 8-18% larger than 2 cm diameter. The upper subsoil is typically a strong brown medium silty clay loam with 35-45% subangular flint stones and a moderate structure. Below approximately 45-50 cm depth the soil becomes paler in colour and extremely stony, with a medium silty clay loam soil matrix between the stones. Stone contents of this layer were measured in the two soil pits and found to be in excess of 70%

subangular flints. In both soil pits a reddish brown very stony clay was encountered at depth. Plant roots were seen to penetrate the extremely stony subsoil layer, decreasing markedly with depth, but there was no evidence of any rooting into the reddish brown clay layer.

21. Moisture balance calculations indicate that under the prevailing climatic conditions these soils are very droughty for deeper rooting crops such as wheat. Furthermore, many of the soil profiles have very stony topsoils, with more than 15% of the stones larger than 2 cm diameter. Both these limitations will restrict the range of crops that can be grown satisfactorily and will also reduce yields. The severity of these limitations therefore restricts the land quality to Subgrade 3b, moderate quality agricultural land.

N A Duncan for the Resource Planning Team Eastern Region, FRCA

SOURCES OF REFERENCE

British Geological Survey (1957) *Sheet No. 317, Chichester*, 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 (1989) Climatological Data for Agricultural Land Classification. Met. Office: Bracknell.

Soil Survey of England and Wales (1967) Soils of the West Sussex Coastal Plain. Bulletin No 3, 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)

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 grass	LEY:	Ley grass	RGR:	Rough grazing
SCR:	Scrub	CFW:	Coniferous woodland	OTH	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:

OC:	Overall Climate	AE:	Aspect	ST:	Topsoil Stoniness
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

Soil Pits and Auger Borings

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

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

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

F: Fine (more than 66% of the sand less than 0.2mm)

M: Medium (less than 66% fine sand and less than 33% coarse sand)

C: Coarse (more than 33% of the sand larger than 0.6mm)

The clay loam and silty clay loam classes will be sub-divided according to the clay content:

M: Medium (<27% clay) H: Heavy (27-35% clay)

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

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

4. MOTTLE CONT: Mottle contrast:

F: faint - indistinct mottles, evident only on close inspection

D: distinct - mottles are readily seen

P: prominent - mottling is conspicuous and one of the outstanding features of the horizon

- 5. PED. COL: Ped face colour using Munsell notation.
- 6. 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 CH: chalk

MSST: soft, medium grained sandstone GS: gravel with porous (soft) stones
SI: soft weathered igneous/metamorphic rock GH: gravel with non-porous (hard) 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	M:	medium
Ped shape	S: GR: SAB: PL:	single grain granular sub-angular blocky platy	M; AB: PR;	massive angular blocky prismatic

9. CONSIST: Soil consistence is described using the following notation:

L: loose FM: firm EH: extremely hard

VF: very friable VM: very firm FR: friable EM: extremely 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

SOIL PIT DESCRIPTION

Site Name: WOODLANDS FARM, SLINDON Pit Number: 1P

Grid Reference: SU96700720 Average Annual Rainfall: 803 mm

Accumulated Temperature: 1518 degree days

Field Capacity Level : 165 days

Land Use : Permanent Grass

Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	ZL	75YR43 33	16	27	HR					
28- 55	MZCL	10YR56 00	16	30	HR		MDFSAB	FR	G	Y
55-100	GH	10YR64 00	0	0	HR				Ρ	Y
100-120	GH	75YR56 00	0	0	HR				P	

Wetness Grade : 1 Wetness Class : I

Gleying : cm SPL : No SPL

APW: 92 mm M8W: -22 mm Drought Grade: 38

APP: 91 mm MBP: -19 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION: Topsoil Stoniness

SOIL PIT DESCRIPTION

Site Name: WOODLANDS FARM, SLINDON Pit Number: 2P

Grid Reference: SU96000710 Average Annual Rainfall: 803 mm

Accumulated Temperature: 1518 degree days

Field Capacity Level : 165 days Land Use : Cereals

Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	FSZL	75YR43 00	8	22	HR					
30- 45	MZCL	75YR54 56	20	44	HR		MDMSAB	FR	G	
45- 85	GH	75YR56 00	0	0	HR				P	
85-120	ZÇ	75YR56 58	0	40	HR		WDVSAB	VF	м	

Wetness Grade : 1 Wetness Class : I

Gleying : cm SPL : No SPL

Drought Grade: 38 APW: 92 mm MBW: -22 mm

APP : 75 mm MBP : -35 mm

FINAL ALC GRADE : 3B

MAIN LIMITATION : Droughtiness

l				 -MOTTLES	\	PED		-ST	ONES-		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	ABUN							CONSIST		R IMP SPL	CALC	
_															
1P	0-28	zl	75YR43 33				16			27					TOPSOIL STONES 3A
	28-55	mzcl	10YR56 00				16	0	HR	30	MDFSAB F	RG		Y	
	55-100	gh	10YR64 00				0	0	HR	0		Р		Y	
	100-120	gh	75YR56 00				0	0	HR	0		P			
2	0-26	fszl	75YR43 00				18	0 1	HR	27					TOPSOIL STONES 3B
	26-38	mzc1	10YR54 00					0 1		35		м			IMP FLINTS 38 CM
	20-36	IIZC I	1011034 00				Ů	•	1111	,,		17			THE PERMIS SO OF
2P	0-30	fszl	75YR43 00				8	2	HR	22					TOPSOIL STONES 3A
	30-45	mzcl	75YR54 56				20	0	HR	44	MDMSAB F	RG			
	45-85	gh	75YR56 00				0	0	HR	0		P			
	85-120	zc	75YR56 58				0	0	HR	40	WDVSAB V	FM			ROOTS TO 85
- -	0.00	_3	75VD42 00				12	^	un	10					TOPSOIL STONES 3A
3	0-23	z1	75YR43 00				12			18					
	23-40	mzcl	10YR54 00				U	0	пк	35		М			IMP FLINTS 40 CM
_ 4	0-25	zl	75YR43 00,				15	3	HR	22					TOPSOIL STONES 38
	25-40	mzcl	10YR54 00				0	0	HR	35		М			IMP FLINTS 40 CM
5	0-27	fszl	75YR43 00				12	3 1	HR	18					TOPSOIL STONES 3A
	27-35	mzc1	10YR54 00				0	0 1	HR	35		M			IMP FLINTS 35 CM
	0.05	•	357043.00				_	•		1.5					TODOOT! CTOUCE 34
6	0-26	z1	75YR43 00					2		15					TOPSOIL STONES 3A
	26-45	mzcl	10YR54 55				U	0 1	нк	35		М			IMP FLINTS 45 CM
7	0-25	zl	75YR43 00				18	2	HR	25					TOPSOIL STONES 3B
-															
. 8	0-25	zl	75YR43 00				12	2 1	HR	19					TOPSOIL STONES 3A
	25-40	mzc1	10YR54 55				0	0 1	HR	35		М		Y	IMP FLINTS 40 CM
_ ^	0.05	7	75VD42 00				_	^ -	un.					v	TODGOTI CTONES 34
9	0-25	z1	75YR43 00 75YR55 00				8	0 1		13 4		**		Y	TOPSOIL STONES 3A
	25-50	mzc1	75YR56 00				_	0 1		4		M		Y	IMP FLINTS 65
	50-65	hzcl	731830 00				Ü	0 1	пк	•		М		Y	THE LETHIZ 02
11	0-27	z١	75YR43 00				20	6 1	HR	30					TOPSOIL STONES 3B
	27-40	mzcl	10YR54 00				0	0 1	HR	35		М			IMP FLINTS 40 CM
									_						
12	0-30	zl	75YR43 00				20			30					TOPSOIL STONES 3B
	30-36	mzcl	10YR54 00				0	0 1	HR	35		М			IMP FLINTS 36 CM
13	0-26	zl	10YR43 00				12	3 I	HR	18					TOPSOIL STONES 3A
	26-38	mzc1	10YR56 00				0	0 1		35		М			IMP FLINTS 38 CM
							-	- '							
14	0-29	zl	10YR43 00				12	3 1	HR	18					TOPSOIL STONES 3A
	29-40	mzcl	10YR56 00				0	0 1	HR	35		M			IMP FLINTS 40 CM
-	A A-	•	754043 00							10					TODGOTI CTOUSS 34
15	0-24	z1	75YR43 00				12			18					TOPSOIL STONES 3A
	24-36	mzcl	10YR54 56				Ü	0 1	HK	35		М			IMP FLINTS 36 CM
-															

28-40

mzc l

10YR55 00

----STONES---- STRUCT/ SUBS ---- PED SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 0-28 16 0 HR 24 TOPSOIL STONES 3B 16 fszl 75YR43 00 28-55 10YR54 55 0 0 HR 30 М mzcl IMP FLINTS 60 CM 55-60 10YR64 00 0 HR 30 mzcl 17 0-30 zΊ 10YR33 00 8 0 HR 18 TOPSOIL STONES 3A 0-26 18 z١ 75YR43 00 16 0 HR 23 TOPSOIL STONES 3B 26-45 mzc1 10YR55 00 0 HR 30 М IMP FLINTS 45 CM 0-30 TOPSOIL STONES 38 19 **z** 1 75YR43 00 16 3 HR 20 30~40 fs<u>z</u>l 10YR44 00 0 HR 35 М IMP FLINTS 40 CM 20 0-25 fsz1 75YR43 00 12 0 HR 19 TOPSOIL STONES 3A 25-40 IMP FLINTS 40 CM mzc1 10YR55 00 0 0 HR 35 TOPSOIL STONES 3B 21 0-26 fsz] 75YR43 00 16 0 HR 24 26-45 IMP FLINTS 45 CM 10YR55 00 0 0 HR 35 mzcl М 0-26 TOPSOIL STONES 38 22 fszl 10YR43 00 15 2 HR 25 26-42 10YR54 00 0 0 HR 35 IMP FLINTS 42 CM mzc] M 23 0-25 zΊ 75YR43 00 10 0 HR TOPSOIL STONES 3A 18 25-35 10YR54 00 0 0 HR IMP FLINTS 35 CM 35 М mzc1 24 0-23 fszl 75YR43 00 12 0 HR 18 TOPSOIL STONES 3A 23-55 10YR54 00 0 0 HR 30 М mzc1 55-80 75YR56 00 0 0 HR IMP FLINTS 80 CM 30 25 0-30 fszi 75YR43 00 16 0 HR 24 TOPSOIL STONES 3B 30-40 IMP FLINTS 40 CM 10YR54 00 0 0 HR 35 mzc1 М 0~25 10YR33 00 16 2 HR 26 **z** 1 22 TOPSOIL STONES 3B 27 0-24 16 0 HR z١ 75YR43 00 24 TOPSOIL STONES 38 24-40 10YR54 00 0 0 HR IMP FLINTS 40 CM mz_C1 35 28 0-30 fszl 7 0 HR 10 75YR43-00 TOPSOIL STONES 3A 30-35 10YR44-00 0 0 HR 35 mzc) IMP FLINTS 35 CM 0-25 29 fszl 75YR33 00 11 0 HR 18 TOPSOIL STONES 3B 25-45 mzcl 10YR55 00 0 HR 35 IMP FLINTS 45 CM 30 0-26 fszl 75YR43 00 16 0 HR 24 TOPSOIL STONES 3B 26-45 10YR54 00 0 0 HR 30 IMP FLINTS 45 CM mzc1 31 0-25 fszl 75YR43 00 9 1 HR 19 TOPSOIL STONES 3A 32 0-28 75YR43 00 11 0 HR TOPSOIL STONES 3A 18

30

М

IMP FLINTS 40 CM

0 0 HR

rogram: ALCO11

COMPLETE LIST OF PROFILES 24/10/97 WOODLANDS FARM, SLINDON

page 3

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLE! ABUN	S CONT		_		STRUCT/ TOT CONSIST	SUBS STR POR IMP SPL CALC	
33	0-30 30-40	fszl mzcl	75YR43 00 10YR53 00			_	_	HR HR	· -	м	TOPSOIL STONES 3A IMP FLINTS 40 CM
34	0-25 25-40	zl mzcl	75YR43 00 10YR65 00				_	HR HR	30 35	м	TOPSOIL STONES 3A IMP FLINTS 40 CM

SAMP	.E		ASPECT				WET	NESS	-WH	EAT-	-P0	DTS-	м.	REL	EROSN	FRO	ST	CHEM	ALÇ		1
NO.	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	E	EXP	DIST	LIMIT		COMME	NTS
1P	SU96700720	PGR					1	1	92	-22	91	-19	3B					TS	3B	3B TS	
2	SU96900730	PGR	NW	01			1	1	56	-58	56	-54	4					TS	3B		
2P	SU96000710	CER					1	1	92	-22	75	-35	38					DR	38	ROOTS	85
3	SU96000720	CER	E	01			1	1	63	-51	63	-47	4					DR	38	SEE 2P	
4	SU96100720	CER					7	1	63	-51	63	-47	4					TS	38	JMP40	
																					i
5	SU96200720	CER					1	1	58	-56	58	-52	4					DR	38	IMP35,	SEE 2P
6	SU96300720	CER	Ε	05			1	1	73	-41	_	-37	3B					DR	38	IMP45	
7	SU96600720						1	1	44	-70	44	-66	4					DR	38	IMP25,	3B TS
8	SU96700720						1	1	64	-50		-46	3B					DR	38	IMP40	
9	SU96800720	PGR	N	01			1	1	106	-8	116	6	3A					DR	3A	IMP65	i
11	SU95800710						1	1	59	-55		-51						DR	38	IMP40,	
12	SU95900710						1	1	56	-58		-54						DR	3B	IMP36,	3B TS
13	SU96000710						1	1	63	-51		-47						DR	38	IMP38	i
14	SU96100710			01				1	68	-46		-42						DR	3B	IMP40	1
15	SU96200710	CER	S	02			1	1	59	-55	59	-51	4					DR	3B	IMP36	
	SU96500710		W	04				1	81	-33		-23	38					DR	3B	IMP60.	38 TS
	SU96600710						1	1	57	-57		-53						DR		IMP30	
18	SU96700710	-					1	1	70	-44		-40	38					DR		IMP45,	
	SU96800710							1	70	-44		-40	38					DR	3B	IMP40,	3B TS
20	SU96900710	PGR					1	1	62	-52	62	-48	4					DR	3B	IMP40	
	CU07000710						_	_					20								1
21	SU97000710	-						1	66	-48		-44	38					DR		IMP45,	
	SU96000700							1	62	-52		-48						DR		,	3B TS
	SU96100700		_				·	1	59	-55		-51						DR		IMP35	_
	SU96200700			04			· ·	1	93	-21		-12	3B					DR		IMP80	
25	SU96500700	PGR	W	02			1	1	62	-52	62	-48	4					DR	3B	IMP40,	3B 1S
25	CHOCEOUTOO	000					•		A E	60	4 5	c e	4						20	TMDOC	20.70
	SU96600700 SU96700700						·	1	45	-69		-65						DR DR		IMP25,	
	SU96800700	-	c	01				1	61	-53		-49						DR		IMP40,	38 13
				01				1	65	-49 46		-45						DR		IMP35	_
	SU96900700			05				1	68	-46		-42						DR CO		IMP45	20 TC
30	SU96700690	MGK	2	01			1	1	67	-47	07	-43	30					DR	38	IMP45,	28 12
21	SU96800690	DC D	c	01			•	1	ΛE	-69	45	-65	4					D.D.	30	TMOSE	
	SU96900690							1	45 60	-69 -46								DR DB		IMP25	_
	SU96450695			01 05				1	68 67	-45 -47		-42						DR DR		IMP40	
	SU95750717			Ų3			,	1	58	-56		-43 -52						DR DB		IMP40	20 70
J+4	0033130111	UER					1	'	36	-30	<i>3</i> 0	-32	7					DR	38	IMP40,	20 12