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Basingstoke and Deane Borough Local Plan
Plan 1: Land West of Roman Road
Basingstoke
Agricultural Land Classification
ALC Map and Report
September 1994

#### AGRICULTURAL LAND CLASSIFICATION REPORT

Basingstoke and Deane Borough Local Plan PLAN 1: Land West of Roman Road, Basingstoke, Hampshire Reconnaissance Survey.

## 1. Summary

- 1.1 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in the Basingstoke district of Hampshire. This work was in connection with the preparation of the Basingstoke and Deane Borough Local Plan.
- 1.2 Approximately 540 hectares of land to the west of Roman Road between Basingstoke to the east and East Oakley and Pardown to the west were surveyed in September 1994. The survey was undertaken at a reconnaissance level of approximately one boring per four hectares. A total of 135 borings and 7 soil inspection pits were assessed in accordance with MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF, 1988). These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose long term limitations on its use for agricultural use. Also included in this survey are the findings of a previous survey carried out in 1993 on part of the site in the vicinity of Fuzzy Drove (ADAS Reference 1501/17/93).
- 1.3 The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS.
- 1.4 At the time of the survey, all of the agricultural land use was in arable use with a mixture of stubble, recently drilled cereals, beans and land being ploughed. The Non-agricultural area includes woodland, scrub and agricultural tracks.
- 1.5 The distribution of grades and subgrades is shown on the attached ALC map and the areas are given in the table below. The map has been drawn at a scale of 1:15,000. It is accurate at this scale, but any enlargement would be misleading. The reconnaissance nature of the survey means that the ALC grade boundaries are shown as dotted, to emphasise the approximate nature of their location. This map supersedes any previous survey information for the site.

Table 1: Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site	% of Agricultural Area
2	57.1	10.6	12.2
3a	390.7	72.5	83.8
3b	18.8	3.5	<u>4.0</u>
Non Agricultural	56.7	10.5	100% (466.6 ha)
Agricultural buildin	ngs 4.5	0.8	
Urban	<u>11.2</u>	<u>2.1</u>	
Total	539.0 ha	100%	

1.6 A general description of the grades, subgrades and land use categories is provided in Appendix
1. The main classes are described in terms of the type of limitation that can occur, the typical cropping range and the expected level and consistency of yield.

- 1.7 The majority of the agricultural land has been classified as Subgrade 3a as a result of a soil droughtiness limitation. The soils are developed over chalk deposits with the chalk occurring at shallow depths and with limited rooting into the chalk. Deeper chalky soils occur in the bottoms of dry valley features; these soils have larger reserves of soil moisture and only experience a slight droughtiness limitation sufficient to allow them to be classified as Grade 2; soil workability is also an active limitation, related to the medium clay loam topsoil textures and the prevailing climate.
- 1.8 Minor areas of Subgrade 3b land have been identified where heavier clay profiles are developed over Clay-with-Flints geology. The clay subsoils cause significant waterlogging in these profiles throughout the year resulting in a soil wetness and workability limitation.

## 2. Climate

- 2.1 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.
- 2.2 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall, as a measure of overall wetness, and accumulated temperature, as a measure of the relative warmth of a locality.
- 2.3 A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset (Met. Office, 1989). The details are given in the table below and these show that there is no overall climatic limitation affecting the site with the exception of a minor area in the south which is limited to Grade 2 where the altitude exceeds 160 metres.
- 2.4 Climatic and soil factors also interact to influence soil wetness and droughtiness limitations. The field capacity days for this site are relatively high in a regional context and, therefore, the likelihood of soil wetness/workability problems will be increased; conversely, drought risk may be reduced. Field capacity days are generally above 175 days except in the north east corner where altitudes fall below 110 metres.

#### Table 2a: Climatic Interpolations

Grid Reference S	U 590515	SU 590496	SU 588 483
Altitude, (m, AOD)	122	130	165
Accumulated Temperature (°days	3) 1396	1388	1349
Average Annual Rainfall (mm)	816	828	864
Field Capacity Days	177	180	186
Moisture deficit, wheat (mm)	95	93	88
Moisture deficit, potatoes (mm)	84	82	76
Overall Climatic Grade	1	1	2

Grid Reference	SU 600513	SU 600509	SU 595499
Altitude, (m, AOD)	110	105	120
Accumulated Temperature	1410	1416	1399
°days, JanJune)			
Average Annual Rainfall (mm)	805	803	817
Field Capacity Days	176	176	178
Moisture deficit, wheat (mm)	97	97	95
Moisture deficit, potatoes (mm	) 86	86	84
Overall Climatic Grade	1	1	1
Grid Reference	SU 581490	SU 600509	SU 590489
Grid Reference Altitude, (m, AOD)	SU 581490 140	SU 600509 105	SU 590489 150
Altitude, (m, AOD)	140	105	150
Altitude, (m, AOD) Accumulated Temperature	140 1377	105	150
Altitude, (m, AOD) Accumulated Temperature °days, JanJune)	140 1377	105 1416	150 1365
Altitude, (m, AOD) Accumulated Temperature °days, JanJune) Average Annual Rainfall (mm)	140 1377 845	105 1416 803	150 1365 847
Altitude, (m, AOD) Accumulated Temperature °days, JanJune) Average Annual Rainfall (mm) Field Capacity Days	140 1377 845 183 92	105 1416 803 176	150 1365 847 183

#### 3. Relief

3.1 The site lies at an altitude of about 100-165 metres AOD. The lowest point of altitude is to the north east. From here, land rises gently southwards incorporating a small number of dry valley features which merge with the highest land to the extreme south of the site.

#### 4. Geology and Soils

- 4.1 The published geological information (BGS, 1980), shows the majority of the site to be underlain by Upper Chalk with several deposits of Clay with Flints along the western boundary.
- 4.2 The published soils information (SSEW 1983), shows the site to comprise three soil types. The majority of the site consists of soils of the Andover 1 association, reflecting the chalk geology. These are described as "Shallow well drained calcareous silty soils over chalk. Deep in valley bottoms". Located in the north are soils of the Coombe 1 association, described as "Fine silty soils over chalk rubble. Shallow to chalk on valley sides". In conjunction with the deposits of clay with flints are soils of the Carstens association, "Well drained fine silty over clayey and fine silty soils, often slightly flinty". The reconnaissance survey found soils similar to those described above.

## 5. Agricultural Land Classification

- Table 1 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached ALC map.
- 5.2 The location of the soil observation points are shown on the attached sample point map.

#### Grade 2

- 5.3 Land classified as Grade 2, very good quality agricultural land, is mostly found in the bottoms of dry valleys across the site and comprises two soil types both with soil droughtiness and workability as the main limitations. The more extensive of these consists of deep clayey soils which become stonier with depth. The second soil type is similar to the first but passes to chalk in the lower subsoil.
- 5.4 The deep clayey soils typically comprise topsoils of medium clay loam containing 2-17 % total flints (with 4-7 % greater than 2 cm in diameter). Upper subsoils consist of heavy clay loam or clay, occasionally heavy silty clay loam with similar volumes of flints or weathered chalk. Lower subsoils comprise clay or heavy clay loam with 2-40 % total flints or weathered chalk. Soil Pits 1, 3, 5 and 7 show the range of textures and stone contents encountered. Where stone content allowed description, the clay subsoils were found to be of moderate structural condition.
- 5.5 The second soil type comprises medium clay loam topsoils with 2-10 % total flints (with 4-7 % greater than 2 cm diameter). Upper subsoils consist of heavy clay loam or clay and occasionally medium silty clay loam containing 2-50 % total weathered chalk or flints. This passes to soft unweathered chalk at a depth of 40-85 cm. Soil Pit 4, although not located in this mapping unit, found the effective rooting depth into the chalk to be approximately 35 cm.
- 5.6 Both soil types are well drained and placed in Wetness Class I. However, both experience a slight restriction in available water in the soil profile. This is due to the combination of soil textures, structures, stone contents, the depth of soil over chalk and climatic factors. As a result, this will have a slight effect upon the level and consistency of crop yields such that the land can be classified no better than Grade 2.
- 5.7 Additionally, the medium textured topsoils of both soil types together with climatic factors results in a topsoil workability limitation to Grade 2. At this locality the clay content in the topsoils tends to retain more water compared to sandy soils and are slower to return to a workable condition after wetting.
- 5.8 Finally, in a few places, topsoil stoniness (in both soil types) also limits land to Grade 2 with sieved topsoil stone volumes of 5-8 % flints greater than 2 cm in diameter. Stone volumes of this nature can have an adverse effect on crop establishment and increase production costs by causing extra wear and tear to implements and tyres.

## Subgrade 3a

- 5.9 The majority of the site is classified as Subgrade 3a, good quality agricultural land, with soil droughtiness and soil workability as the main limitations. Two distinct soil types exist in this mapping unit; one is shallow soils over chalk which predominate across the site and is limited by soil droughtiness, the other soil type consists of heavy clayey soils limited by soil workability.
- 6.0 The shallow chalky soils typically comprise medium clay loam or silty clay loam topsoils containing 2-15% total flints or weathered chalk. Approximately 1-10% flints were found to be greater than 2 cm in diameter when sieved. In most cases soft chalk with 0-5% flints

underlies the topsoil. Occasionally a thin, variably textured horizon containing 0-50% weathered chalk or flints was encountered which then passed to chalk. Profiles are well drained with a Wetness Class of I. However, they experience a moderate droughtiness limitation due to the shallow depth of soil over the chalk. Soil Pit 4 shows effective rooting into the chalk to be approximately 35 cm. Soil Pit 8 from the previous survey (outside the current survey area but on adjacent land) is typical of a number of borings around Fuzzy Drove, to the east of the site. Here, a rooting depth of approximately 40 cm was recorded although this does not affect the overall grade for the mapping unit. Occasionally, some shallow chalky profiles with heavy clay loam topsoils were encountered. These are also limited to Subgrade 3a due to a topsoil workability limitation. This limitation is more in common with the second soil type described below.

- Deep, very slightly to moderately stony clayey soils typify this second soil type. Topsoils comprise heavy silty clay loam or heavy clay loam with 4-12% total flints. Sieving revealed 1-7% of this total to be over 2 cm in diameter. Upper subsoils consist of moderately structured clay or heavy clay loam containing 2-20% total flints or weathered chalk. This passes to lower subsoils of similar texture and stone content. Soil Pit 6 is located in this map unit. Here, the clay is of moderate structural condition. The soil pit is actually classified as Grade 2 as the workability limitation is reduced because the topsoil texture is slightly lighter than the predominant texture in this unit. As with those described above, soils are well drained, Wetness Class I. However, the heavy nature of the topsoils in combination with climatic factors means that land can be classified no better than Subgrade 3a due to a topsoil workabilty limitation.
- 6.2 A small number of profiles of better quality were encountered but not mapped separately due to their limited number and distribution.

## Subgrade 3b

- 6.3 Land classified as Subgrade 3b, moderate quality land, is found in a few small areas to the south and west of the site. Here, soils are developed from the underlying Clay with Flints geology. Profiles typically comprise heavy clay loam topsoils with 9-12% total flints (with 4-7% greater than 2 cm in diameter). Subsoils consist of poorly structured slowly permeable clay or, in some cases, a thin horizon of moderately structured clay which lies above this. In places chalk was encountered at depth which can ameliorate the Wetness Class in red subsoils if it occurs within 100 cm. Soil Pit 2, despite a classification of Grade 4 (due to a worse Wetness Class than the surrounding soils), illustrates the main profile characteristics of these soils and shows the structure of the slowly permeable clay to be moderately well developed coarse angular blocky peds of very firm consistence. Subsequently, profiles are poorly drained, leading to a Wetness Class of III and this, combined with climatic factors and topsoil texture, results in a classification of Subgrade 3b.
- A small number of poorer quality profiles were included in this mapping unit, and were not mapped separately due to their limited number and distribution.

ADAS Ref: 1501/199/94 MAFF Ref: EL15/144 Resource Planning Team Guildford Statutory Group ADAS Reading

#### **SOURCES OF REFERENCE**

ADAS (1993), Basingstoke and Deane Local Plan, Site 2: Kempshott Lane (additional area) 1501/017/93

British Geological Survey (1980), Sheet 284, Basingstoke, 1:50,000 scale. Solid and Drift Edition.

MAFF (1988), Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land.

Meteorological Office (1989), Climatic datasets for Agricultural Land Classification.

Soil Survey of England and Wales (1983), Sheet No. 6, Soils of South-East England, 1:250,000, and accompanying legend.

Soil Survey of England and Wales (1984), Soils and their use in South-East England. Bulletin No.15.

#### APPENDIX I

## **DESCRIPTION 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 (eg. 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.

#### Urban

Built-up or 'hard' uses with relatively little potential for a return to agriculture including: housing, industry, commerce, education, transport, religous buildings, cemetries. Also, hard-surfaced sports facilities, permanent caravan sites and vacant land; all types of derelict land, including mineral workings which are only likely to be reclaimed using derelict land grants.

## Non-agricultural

'Soft' uses where most of the land could be returned relatively easily to agriculture, including: private parkland, public open spaces, sports fields, allotments and soft-surfaced areas on airports. Also active mineral workings and refuse tips where restoration conditions to 'soft' after-uses may apply.

#### Woodland

Includes commercial and non-commercial woodland. A distinction may be made as necessary between farm and non-farm woodland.

## **Agricultural Buildings**

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses. Temporary structures (eg. polythene tunnels erected for lambing) may be ignored.

## Open Water

Includes lakes, ponds and rivers as map scale permits.

#### Land Not Surveyed

Agricultural land which has not been surveyed.

Where the land use includes more than one of the above, eg. buildings in large grounds, and where map scale permits, the cover types may be shown separately. Otherwise, the most extensive cover type will be shown.

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## **APPENDIX II**

## FIELD ASSESSMENT OF SOIL WETNESS CLASS

#### SOIL WETNESS CLASSIFICATION

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.

#### **Definition of Soil Wetness Classes**

Wetness Class	Duration of Waterlogging <sup>1</sup>
1	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 wet within 40 cm depth for more than 210 days in most years or, if there is no slowly permeable layer present within 80 cm depth, it is wet within 40 cm depth for 91-210 days in most years.
v	The soil profile is wet within 40 cm depth for 211-335 days in most years.
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years.

Soils can be allocated to a wetness class on the basis of quantitative data recorded over a period of many years or by the interpretation of soil profile characteristics, site and climatic factors. Adequate quantitative data will rarely be available for ALC surveys and therefore the interpretative method of field assessment is used to identify soil wetness class in the field. The method adopted here is common to ADAS and the SSLRC.

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

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

# APPENDIX III

# SOIL PIT AND SOIL BORING DESCRIPTIONS

## Contents:

Soil Abbreviations - Explanatory Note

**Soil Pit Descriptions** 

**Database Printout - Boring Level Information** 

**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 PastureLEY: Ley Grass **RGR**: Rough Grazing SCR: Scrub CFW: Coniferous Woodland DCW: Deciduous Wood

HTH: Heathland BOG: Bog or Marsh FLW: Fallow PLO: Ploughed SAS: Set aside OTH: Other

HRT: Horticultural Crops

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

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## Soil Pits and Auger Borings

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

**S**: Sand LS: Loamy Sand Sandy Loam SL: SZL: Sandy Silt Loam Clay Loam CL: **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 Loamy Peat LP: PS: Peaty Sand PL: Peaty Loam 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

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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).

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

: single grain

M: massive

GR: granular

AB: angular blocky

PR: prismatic

SAB: sub-angular blocky

PL: platy

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

L: loose VF: very friable FR: friable

FM: firm

VM: very firm

EM: extremely firm

EH: extremely hard

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

- 11. POR: Soil porosity. If a soil horizon has less than 0.5% biopores >0.5 mm, a 'Y' will appear in this column.
- 12. IMP: If the profile is impenetrable to rooting a 'Y' will appear in this column at the appropiate 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

available water capacity (in mm) adjusted for potatoes APP:

MBW: moisture balance, wheat MBP: moisture balance, potatoes

SAMP	LE	A	SPECT				WET	NESS	-₩H	EAT-	-P0	TS-	M. R	REL	EROSN	FRO	ST	CHEM	ALÇ	
NO.	GRID REF	USE		GRDNT	GLEY S	SPL	CLASS	GRADE	ΑP	MB	AP	MB	DRT	FLOOD		EXP	DIST	LIMI	Г	COMMENTS
<b>2</b> 1	SU59205100	PL0					1	2	089		093	7	ЗА					DR	ЗА	IMP40
	SU59505100						1	2	102		104	18	2					WK	2	PIT 80 CM
	SU59205120		S	02			1	2	080	-17	083	-3	3A					DR	3A	IMP30
	SU58104880				03	30	4	4	109		100	18	2					WE	4	REDF IG7
3	SU59105130	PLO	S	02			1	2	100	3	099	13	ЗА					DR	ЗА	IMP50
													_						_	O. 114
_	SU58964994		_				1	2	111		103		2					DR	2	2WK
	SU59105140		_	02			1	2	124		116	32	2					DR	2	IMP80
-	SU59074994		W	02			1	2	075		078	-4	3A					DR	3A	PIT70CM
	SU59105160		NE	02			1	2	082	-13		2	3A					DR	3A	IMP45
<b>■</b> 5P	SU58935000	ZIR					1	2	109	15	115	33	2					WK	2	PIT80
	CUE010E170	DI 0	A D 1	00			1	^	000	7	004	10	24					D0	24	IMP50
v	SU59105170		NM	02			1	2	088		094	10	3A					DR	3A	IMPOU
_	SU58584987			•			1	2	104		113	31	2					WK	2	TM070
	SU59505170			02			1	2	115		106	20	2					WK	2	IMP70
_	SU59054920		E	02			1	2	104		112	30	2					WK	2	PIT80
8	SU59705160	21R	N	01			1	2	083	-14	083	-3	3A					WK	2	IMP50
	CUCODOE1 FO	CTD	_	01			-	2	001	_	000	12	24					OB	2	IMP60
<b>9</b> 10	SU59805150 SU59505140		E	01			1 1	2	091		099	13 11	3A					DR WK	2 3A	IMP50
10 11	SU59505140 SU59405120		SE S	01 03			1	3A 2	093 115		095 106	20	3A 2					DR	2	IMP65
12	SU59305090		N	03			1	2	093		097	11	2 3A					DR	3A	IMP40
13	SU59505090			02			i	2	086		091	5	3A					DR	3A	IMP45
_ 13	2033303030	FLO	IN	UZ.			•	2	000	- 1 1	031	,	JA					DIX	J.	1111 45
<b>1</b> 4	SU59905090	PI O	N	02			1	2	090	-7	095	9	ЗА					DR	2	IMP60
15	SU60005100		.,	VL.			1	2	066		066	-20	3B					DR	2	IMP40
_	SU59905120		SW	02			1	2	080		084	-2	3A					DR	3A	IMP40
<b>—</b> 17	SU59805110						1	2	067		067	-19	3B					DR	2	IMP40
18	SU60005130		S	02			1	2	122		115	29	2					DR	2	IMP90
				-																
19	SU59605000	STB	SE	02			1	2	088	-9	094	8	ЗА					DR	ЗА	IMP40
20	SU59604984	STB					1	2	064	-33	064	-22	3B					DR	2	IMP40X1P
21	SU59604975	STB	Ε	02			1	2	076	-21	080	-6	3B					DR	3B	IMP35
22	SU59604950	STB	SE	02			1	2	080	-13	084	2	3A					DR	ЗА	IMP35
23	SU59404950	STB	SE	02			1	2	082	-11	086	4	3A					DR	ЗА	IMP35
24	SU59204950	STB	W	02			1	2	078	-15	081	-1	ЗА					DR	ЗА	IMP35
25	SU59204960	STB					1	2	100	7	109	27	2					WK	2	IMP65
26	SU59104940	PLO	Ε	02			1	3A	098	5	112	30	3A					WK	ЗА	IMP70
27	SU59104990	ARA					1	2	082	-11	086	4	3A					DR	3A	IMP40
_ 28	SU59204990	STB					1	2	083	-10	087	5	3A					DR	3A	IMP40
29	SU59104970	STB					1	2	086	-7	090	8	3A					DR	ЗА	IMP55Q2
30	SU59104920	PLO	Ε	02			1	2	062	-31	062	-20	3B					DR	2	IMP40Q2
31	SU59104900	PLO	N	02			1	2	113	23	105	27	2					DR	2	IMP70
32	SU59104880	STB	E	03			1	2	113	23	106	28	2					DR	2	IMP70
33	SU59104860	STB	N	03			1	2	880	-2	094	16	3A					DR	ЗА	IMP45
34	SU59104840						1	2	095		097	21	2					DR	2	IMP45
35	SU58904880	STB					1	2	086	-2	091	15	ЗА					DR	ЗА	IMP45

SAMP	LE	Д	SPECT			WE	TNESS	-WH	IEAT-	-P0	TS-	М	. REL	EROSN	FROST	r c	HEM	ALC	
NO.	GRID REF			GRDNT	GLEY S		S GRADE		МВ			DRT	FLOOD	EX		OIST	LIMIT		COMMENTS
											_				-				
36	SU59304880	STB				1	2	083	-7	087	9	3A					DR	3A	IMP40
37	SU59304900	STB	N	02		1	2	104	14	101	23	2					DR	2	IMP55
38	SU59304920	STB	N	02		1	2	088	-5	095	13	3A					DR	2	IMP60
39	SU59404920	STB	N	02		1	2	082	-11	087	5	3A					DR	3A	IMP40
40	SU59304930	STB	NE	02		1	2	087	-6	091	9	3A					DR	ЗА	IMP45
_ 41	SU59504940	STB	NE	02		1	2	089	-4	095	13	3A					DR	ЗА	IMP40
42	SU58174865	PLO				1	3A		0		0						WK	ЗА	SEIVED
43	SU58174870	PL0	S	03		1	2	080		085	7	ЗА					DR	3A	
44	SU58054880				02		3B	108	18	099	21	2					WE	3B	RED
45	SU58044896	PL0			02	6 4	4	119	29	097	19	2					WE	4	REDFIG7
46	SU58104910					1	3A	065		065	-17	ЗВ					WK	ЗА	IMP40
<b>■</b> 47	SU58204920					1	ЗА	097		113	31	ЗА					WK	ЗА	IMP70
48	SU58404920					1	ЗА	080		080	-2	ЗА					WK	ЗА	IMP50
49	SU58365015					1	2	126		115	29	2					WK	2	IMP100
50	SU58905090	PLO				1	3A	073	-24	073	-13	3B					WK	ЗА	IMPQDR
	50555555					_	_					•						_	*****
51	SU58845110					1	2	084		087	1	3A					DR	2	IMPQDR
52	SU58765125					1	3A	054		054	-32	3B					WK	3A	IMPQDR
53	SU58665140					1	3A	071		071	-13	3B					WK	3A	IMPQDR
54	SU58605150					1	2	081		086	2	3A					DR	3A	
- 55	SU58305120	PLO				1	2	081	-16	086	0	ЗА					DR	ЗА	
<b>.</b>	0	D1 0				-	•	001		005		24						•	******
56	SU58445095					1	2	081		085	-1	3A					DR	2	IMPQDR
<b>5</b> 7	SU58205084					1	2	078		078	-8	3A					DR	2	IMPQDR
58 <b>-</b> 50	SU58465080					1	3A	087		091	5	3A					WK	3A	IMPQDR
59 60	SU58635080 SU59305080					1 1	3A 2	095 085		110 089	24 3	3A 3A					WK DR	3A 3A	IMP
60	2029202060	AKA				•	2	005	-12	009	3	SA					UK	SA	
61	SU59445065	ADA				1	2	081	16	085	-1	ЗА					DR	3A	
62	SU59465050					1	2	082		082	-4	3A					DR	2	IMPQDR
63	SU59455025					1	2	083		086	4	3A					DR	2 3A	II II QUK
	SU59455010					1	2		-16		-2	3A					DR	3A	3A3B
_	SU59755010					1	2	091		095	9	3A					DR	3A	JAJU
00	5005755010	CIVA				1	-	051	-0	0,0	,	<b>J</b> A					J.	<b>-</b>	
<del>-</del> 66	SU59755020	ARA				1	2	084	-13	088	2	ЗА					DR	ЗА	
67	SU59865040					1	2	078		081	<b>-</b> 5	3A					DR	3A	
	SU59945050					1	2	085		090	4	3A					DR	3A	
69						1	2	089		092	6	3A					DR	2	IMPQDR
_ 70	SU59605070					1	2	093		096	10	3A					DR	<u>-</u>	2, 11 42.11
						•	-		*		. •	,					,		
71	SU59005015	ARA				1	2	070	-27	070	-16	3B					DR	2	IMPQDR
	SU59005036					1	2	088		093	7	3A					DR	2	IMPQDR
73						1	2	088		099	13						DR	2	IMPQDR
74						1	2	114		107	21						DR	2	· ·· · ••
75						1	3A	118		110	24						WK	- ЗА	
•		•				•			- '			_							
76	SU58505030	ARA				1	2	083	-14	090	4	ЗА					DR	2	IMPQDR
77	SU58505010					1	3A				-23						WK	3A	IMPQDR
																			-

program: ALC012 LIST OF BORINGS HEADERS 07/02/95 BASINGSTOKE LP: PLAN 1 SAMPLE ASPECT --WETNESS-- -WHEAT- -POTS- M. REL EROSN FROST CHEM ALC

SAME	LE	Æ	SPECT				WETI	VESS	−WH	EAT-	-P0	TS-	М.	REL	EROSN	FR0	ST	CHEM	ALC	
NO.	GRID REF	USE		GRDNT	GLEY	Y SPL	CLASS	GRADE	AP	MB	ΑP	MB	DRT	FL00D	8	EXP	DIST	LIMIT		COMMENTS
_																				
78	SU58705005						1	2	063	-30		-19	3B					DR	3A	IMPQDR
79	SU58954990						1	2	080	-17		-6	3A					DR	2	IMPQDR
80	SU58854974						1	3A	071	-22		-11	3B					MK	3A	IMPQDR
81	SU58804960					028	3	3B	075	-18		-6	3A					WE	3B	SPL
82	SU58804930	ARA					1	ЗА	079	-14	U84	2	ЗА					WK	3A	3ADR
- 03	CHEDEUVOSO	ADA					1	34	100	7	007	15	2					WK	3A	
83 <b>8</b> 4	SU58604930 SU58404930						1	3A 3A	100 080	-13	097	15 -2	2 3A					WK	3A	IMPQDR
85	SU58204930						1	3A	064	-29		-18	3B					WK	3A	IMPX2QDR
86	SU58454957						i	3A	089		091	9	3A					WK		ALSO3ADR
<b>8</b> 7	SU58204978					062	3	3B	115		108	26	2					WE		WC3-2
	0000204370	AILA				002	•	30	113		100	20	-					,,,	55	
88	SU58404980	ARA				040	3	3B	091	-2	103	21	ЗА					WE	3B	IMPQWC
89	SU58604980					•	1	3A	086		093	11	3A					WK	3A	IMPQDR
90	SU58204850						1	3A	080	-10		8	ЗА					WK	ЗА	IMPQDR
91	SU58354840	ARA					1	2	084	-6	091	13	3A					DR	2	IMPQDR
92	SU58504830	ARA					1	2	077	-13	081	3	3A					DR	ЗА	STONYTOP
93	SU58604815	ARA					1	3A	081	-7	086	10	3A					WK	ЗА	
94	SU58724802	ARA					1	2	088	0	094	18	3A					DR	ЗА	
95	SU58714833	ARA					1	3A	086	-2	092	16	ЗА					WK	ЗА	3ADR
96	SU58674843	ARA					1	2	093	3	096	18	3 <b>A</b>					DR	ЗА	
97	SU58524856	ARA					1	2	083	-7	090	12	3A					DR	2	IMPQDR
_			•																	
98	SU58354862						1	2	054		054	-24	3B					DR	3A	IMPX2QDR
99	SU58304870				038		4	4	079	-11		2	ЗА					WE	4	SPL
100	SU58164880					040	3	3B	077	-13		-1	3A					WE	3B	IMPX2QWE
101	SU58604870						2	3A	101		094	16	2					WK	3A	NOGLEY
102	SU58804865	ARA					1	ЗА	090	U	093	15	3A					DR	ЗА	3AWK
102	CHE0034073	A DA				025	2	4	106	16	005	17	2					LIC.	4	REDFIG8
103	SU58924873 SU58854898					025	3 1	4	106 087		095							WE: WK	4 3A	IMPQDR
105	SU58904910						1	3A 3A	091		095 102	17 24	3A 3A					WK	3A	IMP
105	SU59005020						1	2	031	0	102	0	JA					WK	2	TS SIEVED
	SU59005030						1	2		0		0						WK	2	TS SIEVED
•	000000000	AILA					•	-		Ū		v						7418	-	10 012425
108	SU58255005	ARA					1	ЗА	083	-7	087	9	3A					WK	ЗА	IMPQDRX2
109	SU58764884						1	3B	092		089	11	3A					WK		CLAYTOP
110	SU59054890		Ε	02			1	2	090		098	16	3A					WK	2	I60XX110
111	SU58304845						1	2	000		000	0						WK	2	TS SEIVED
112	SU58404842	ARA					1	2	000	0	000	0						WK	2	TS SEIVED
	SU58494832 SU58664810																			
113	SU58494832	ARA					1	2	000	0	000	0						WK	2	TS SEIVED
114	SU58664810	ARA					1	ЗА	000	0	000	0						WK	ЗА	TS SEIVED
115	SU58474838	ARA					1	2	000	0	000	0						WK	2	TS SEIVED
116	SU58224852						1	ЗА	000	0	000	0						WK	3A	TS SEIVED
117	SU59404910	PLO	Ε	03			1	2	078	-13	083	5	ЗА					DR	<b>3</b> A	CH25
			_	_									_						_	
118	SU59304910		Ε	01			1	2		-14		3						DR		CH25
<sup></sup> 119	SU59204910	PLO	W	02			1	2	076	-15	080	2	3A					DR	3A	CH25
_																				

orogram: ALC012

## LIST OF BORINGS HEADERS 07/02/95 BASINGSTOKE LP: PLAN 1

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SAMP	LE	А	SPECT				WETI	NESS	-WH	EAT-	-P0	TS-	M. I	REL	EROSN	FROS	Т	CHEM	ALC	
٧٥.	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	Ε	ΧP	DIST	LIMIT		COMMENTS
120	SU59504920	PLO	N	01			1	2	097	6	096	18	2					WK	2	IMP40
121	SU59204920	PL0	N	01			1	2	081	-10	086	8	ЗА					DR	ЗА	IMP35
122	SU59204930	PLO					1	2	078	-13	082	4	3A					DR	ЗА	
_123	SU59404930	PL0	N	01			1	2	134	43	108	30	1					WK	2	
124	SU59504930	PL0	NE	02			1	2	085	-6	088	10	3A					DR	ЗА	
125	SU59404900	CER	E	03			1	2	089	-2	094	16ے	3A					DR	2	IMP60
126	S058304890	CER	N	01			1	2	083	-8	088	10	ЗА					DR	ЗА	IMP35
127	SU58404890	CER	NE	03			1	2	080	-11	083	5	3A					DR	2	IMP60
128	SU59104870	CER	E	04			1	3A	085	-6	090	12	3A					WK	3A	IMP60
129	SU59204870	CER	N	02			1	2	082	-9	087	9	3A					DR	ЗА	IMP35
130	SU59304870	CER	N	02			1	2	072	-19	075	-3	3A					DR	3A	
131	SU59204860	CER	N	02			1	2	079	-12	083	5	3A					DR	3A	IMP40
132	SU59004850	CER					1	2	092	1	092	14	3A					DR	3A	
133	SU59104850	CER	N	02			1	2	105	14	097	19	2					WK	2	
134 <b>=</b>	SU59204850	CER	N	02			1	2	094	3	094	16	ЗА					DR	3A	IMP45
135	SU59204840	CER	N	01			1	3A	079	-12	084	6	3A					WK	ЗА	IM₽35

program: ALC011

# COMPLETE LIST OF PROFILES 12/12/94 BASINGSTOKE LP: PLAN 1

									_ <u></u>				,				
	- CDT!!	TEXTURE	001 0110	MOTTLES								STRUCT/ CONSIST			D TMC	CDI	CALC
SAMPLE	DEPIH	TEXTURE	COLOUR	COL. ABUN	CONT	CUL.	GLEY	>2 :	>b L	TIM	101	CON2121	31	K PU	K IMP	SPL	CALC
1	0-29	mcl	10YR42 00					4	0 F	łR	8						
	29-38	hc1	10YR44 00					0	0 F	łR	10		١	1			
	38-73	ch	00CH00 00					0	0		0		F	•			Y
1P	0-25	mc1	10YR43 00					2	0 H	1R	5						
j	25-55	mcl	75YR44 00					0	0 H	łR	15		١	1			
_	55-80	hc1	75YR44 00					0	0 H	IR.	20		١	1			
2	0-26	mzcl	10YR53 00					0	0 H	HR.	2						γ
•	26-61	ch	00CH00 00					0	0		0		F	•			Υ
2P	0-25	hcl	10YR43 00					4	0 1	IR .	9						
	25-30	С	05YR46 00		C	00MM00	00	0	0 1	1R	2		1	1			
	30-100	С		00MN00 00 M	(	)5YR54	00	0	0 H	HR.	2	MCAB	VM I	·γ	1	Y	
3	0-28	mc1	10YR43 00					0	0 1	1R	5						
	28-45	mc1	10YR46 00					0	0 (		10			4			Y
1	45-80	ch	00CH00 00					0	0		0		,				Y
30	0-25	mcl	10YR42 00					2	0 1	10	7						
3P	25-65	hcl	75YR43 00					0	0 1		17		١	4			
	65-90	hcl	75YR44 00					ō	0 (		30			1			
	0.20	1	100042.00					0	0 1	JD.	2						
4	0-29 29-45	mc1	10YR42 00	10YR56 00 F				0	0	אר	0		,	4			
	45-68	c c		107R56 00 C		00MN00	2 00	0	0		0			1			
•	68-103	ch	00CH00 00	101830 00 0	•	301 11400	00 3	0	0		0			, ,			Υ
	0.05	,	10,4052.00					2	•	10	r						Y
4P	0-25 25-60	mcl ch	10YR53 00 00ZZ00 00					2	0 1	пк	5 0			Þ			Ť
	25-00	Cil	002200 00					Ŭ	Ū		Ů		,				
5	0-29	mcl	10YR42 00					0	0 1	НR	2						
	29-64	ch	00CH00 00					0	0		0		1	Þ			Υ
5P	0-28	mc1	10YR42 00					0	0 1	НR	2						
	28-60	hcl	10YR44 00					0	0 1		2	MDCSAB	FR i	1 Y	,		
•	60-80	С	05YR44 00		(	OOMMOO	00	0	0 1	НR	2	MDCSAB			,		
6	0-29	mc]	10YR42 00					0	0 1	нR	5						
,	29-35	mcl	10YR46 00					0	0 1		5		ł	4			Υ
	35-70	ch	00CH00 00					0	0		0		ı	)			Y
6P	0-26	mcl	10YR43 00					2	0 1	-IR	5						
o or	26-58	c		00MN00 00 F				0	0 1		2	MCSAB	FR I	4 Y	,		
1	58-68	c		00MN00 00 F				0	0 1		2	MCSAB	FM I				
	68-80	С		00MN00 00 M				0	0 1		25			4			
. 7	0-29	mcl	10YR42 00					0	0 1	HR	2						
·	29-52	hc1	10YR44 00					0	0 1		2		1	Ч			
J	52-58	mzcl	10YR64 00					0	0 (		50			P			Υ
	58-93	ch	00CH00 00					0	0		0		I	P			Υ

				_	M	OTTLES	i	PED			-S1	ONES-		STRUCT	,	SUBS	3				
SAMPLE	DEPTH	TEXTURE	COLOUR	O	OL 4	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	٢.	STR	POR	IMP	SPL	CALC	
7P	0-25	mcl	10YR43 (									HR	8				.,				
	25-45	hc1	10YR44 (					2011100	00	0		HR		MDCSAB							
	45-80	С	75YR56 !	54			,	OOMMOO	UU	0	U	HR	2	MDCSAB	FΜ	M	Y				
8	0-29	നമി	10YR42 (	מר						0	٥	HR	3								
	29-45	hcl	10YR44 (							0			10			М				Υ	
	45-50	mzcl	10YR74 (							0		CH	20			М				Υ	
9	0-28	mcl	10YR43 (	00						0	0	HR	2								
	28-60	С	75YR46 (	00						0	0	HR	3			М					
<b>1</b>										_	_		_								
10	0-28	hc1	10YR42 (		<b>4055</b>	00.14			00.0	0		HR	2			_					
	28-40 40-75	C -h	75YR44 (		YR56	UU M	(	OOMMOO	00.2	0	0		0			P P				Υ	
	40-75	ch	00CH00 (	50						0	U		U			٢				,	
11	0-29	mc1	10YR42 (	00						0	٥	HR	5								
	29-60	mcl	10YR64 (							0		СН	20			М					
	60-95	ch	00CH00 (							0	0		0			P				Υ	
6																					
12	0-25	mzcl	10YR64 (	00						0		CH	5							Υ	
	25-37	mzcl	10YR74 (							0		CH	30			М				Υ	
	37-72	ch	00CH00 (	00						0	0		0			Р				Υ	
13	0-32	mc1	10YR64 (	20						0	Λ	СН	5							γ	
	32-67	ch	00CH00								0	Cri	0			р				Ý	
,										-	Ť		•			•				·	
14	0-29	mcl	10YR43 (	00						0	0	HR	2								
	29-38	mcl	10YR44 (	00						0	0	HR	5			М				Y	
,	38-60	wcj	10YR74 (	00						0	0	СН	40			М				Y	
4-		_	400.0040				•				_										
15	0-28	mcl hal	10YR43 (							0		HR	3			ы					
	28-40	hcl	10YR44 (	50						U	Ü	HŘ	10			М					
16	0-28	mc1	10YR43 (	00						0	0	HR	3								
•	28-63	ch	00CH00 (								0		0			Р				Υ	
17	0-29	mc1	10YR43 (	00						0	0	HR	2								
	29-40	hcl	10YR44 (	00						0	0	HR	10			М					
		_								_	_										
18	0-34	mcl	10YR43 (							0		HR	2								
	34-65 65-85	hcl hcl	10YR44 (							0		HR CH	5 15			M				Y	
	85-90	mzcl	101R43 (							0		CH	30			М				Y	
	50 50	.ne. C I	1011177							•	•		55			••				•	
19	0-32	mzcl	10YR43 (	00						0	0	HR	4							Y	
	32-67	ch	00CH00 (							0	0		0			Р					
_																					
20	0-29	mzc1	10YR43 (	00						5		HR	10								
	29-40	mcl	10YR44 (	00						0	0	HR	20			М					
_																					

program: ALC011

1					MOTTLES	S	PED			-\$1	ONES		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2 :	>6	LITH	тот	CONSIST	STR POR	IMP	SPL	CALC
21	0-26	mzcl	10YR43 00						0	0	HR	10					Y
	26-61	ch	00CH00 00						0	0		0		P			Y
22	0-27	mzcl	10YR43 00						0	0	HR	5					Υ
	27-62	ch	00CH00 00						0	0		0		Р			Υ
23	0-28	mzcl	10YR43 00								HR	5					
	28-63	ch	00CH00 00						0	0		0		Р			Υ
24	0-25	mzcl	10YR42 00						0	0	HR	3 0		Р			Y Y
	25-60	ch	00CH00 00						U	Ü		U		r			'
25	0-35	mzcl	10YR42 00						0	0	HR	5					
_	35-45	mcl	10YR44 00						0	0	HR	5		M			
	45-60	mcl	75YR44 <b>00</b>						0	0	HR	5		M			
	60-65	hc1	75YR44 00						0	0	HR	10		M			
26	0-28	hcl	10YR42 00			•					HR	5					
	28-65	С	75YR46 00	10YR5	6 00 F	C	OOMNOO	00			HR	5		М			
_	65-70	hc1	10YR74 00						0	0	CH	20		М			Υ
27	0-28	mzcl	10YR42 00								HR	4		_			.,
-	28-63	ch	00CH00 00						0	0		0		Р			Y
28	0-28	mzcl	10YR43 00							0	HR	3 0		P			Y
•	28-63	ch	00CH00 00						Ū	Ü		Ü		•			•
29	0-28	mzcl	10YR43 00						0	0	HR	5					
	28-45	hc1	75YR46 00						0	0	HR	5		М			
-	45-55	С	75YR46 00						0	0	HR	20		М			
30	0-28	mcl	10YR43 00						5		HR	10					
•	28-40	hcl	75YR46 00						0	0	HŘ	15		М			
31	0-26	mcl	10YR43 00						0		HR	5					
	26-35	hcl	75YR46 00						0		HR	5		M			
	35-62	С	75YR46 00	75YR5	6 00 F	C	00MN00	00	0		HR	10		М			
	62-97	ch	00CH00 00						0	0		0		P			
32	0-29	mc1	10YR43 00						0 0		HR HR	5 5		u			
	29-40	hcl	75YR44 00						-					M			
	40-60	С	75YR46 00								HR	10		M			
-	60-95	ch	00CH00 00						0	0		0		Р			
33	0-28	mcl	10YR43 00								HR	3		и			v
	28-35	mcl	10YR44 00						0		CH	30		M			Y
	35-70	ch	00CH00 0D						0	0		0		P			Y

				MOTTLE	<b>c</b>	PED			_СТ	ONES.		STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABUN								CONSIST			SPL	CAL C	
<b>S</b> OA II EE	DC; 111	TEXTORE	COLOGIC	OOL ADON	00111	OOLI	ucc.		- •			00110101	• • • • • • • • • • • • • • • • • • • •		0, 2		
34	0-28	mc1	10YR43 00					0	0	HR	3						
34	28-40	mcl	10YR64 00					0	0	CH	10		М			Υ	
	40-75	ch	00CH00 00					0	0		0		Р			Υ	
<b>.</b>		_						_								L.	
35	0-32	mcl	10YR43 00					0		HR	3		_			Y	
_	32-67	ch	00CH00 00					0	0		0		Р			Υ	
36	0-28	mzcl	10YR43 00					0	0	HR	3						
36	28-63	ch	00CH00 00					0	0		0		Р			γ	
_																	
37	0-27	mc1	10YR43 00					0	0	HR	3						
3/	27-40	hcl	75YR44 00					0	0	HR	5		М				
-	40-48	С	75YR46 <b>0</b> 0					0		HR	5		М				
_	48-83	ch	00CH00 00					0	0		0		Р			Υ	
38	0 27	ma1	100043 00					0	n	HR	E						
- 38	0-27 27-40	mcl hcl	10YR43 00 75YR44 00					0		HR	5 5		М				
_	40-60	C	75YR46 00					0		HR	10		М				
	40-00	C	7511140 00					Ĭ	Ŭ		10		•••				
39	0-32	mc1	10YR43 00					4	0	HR	10						
_	32-67	ch	00CH00 00					0	0		0		P			Υ	
10																	
40	0-28	mc1	10YR43 00					4		HR	10						
_	28-38	hc1	10YR64 00					0		CH	40		М			Υ	
	38-73	ch	00CH00 00					0	0		0		Р			Υ	
	0.26	1	107043 00					0	0	ПD	5						
41	0-26 26-35	mzcl mzcl	10YR43 00 10YR74 00					0		CH	40		М			Υ	
	35-70	ch	00CH00 00					0	0	ÇI I	0		P			Ý	
	00 / 0	0.1	000,,00					•	-		•					·	
42	0-35	hc1	10YR43 00					5	0	HR	10						SEIVED TOPSOIL
43																	
43	0-30	mcl	10YR43 00							HR	8						
_	30-65	ch	00CH00 00					0	0		0		P			Y	
44	0-28	hc1	10YR43 00					4	٥	HR	10						
44	28-90	C	05YR46 00		r	00MN00	าก	0		HR	2		Р	٧	Υ		
_	90-100		00CH00 00			701 11100	,0	0	0	1110	0		Р	•	Ÿ	Υ	
		<b>U</b> .,	00000					•	-		_				·	·	
45	0-26	hcl	10YR43 00					4	0	HR	10						
_	26-120	С	05Y 46 00		C	000000	00	0	0	HR	5		Р		Υ		
46																	
46	0-28	hc1	10YR42 00						0		5						
_	28-40	hc1	10YR43 00					0	0	HR	10		M				
47	0-28	hcl	10YR43 00					0	n	HR	5						
₩ "/	28-45	hol	10YR44 00					0		HR	3		М				
_	45-70	C		10YR56 00 F		OMNOO (	00		0		5		M				
	,.	•	,				-	-	-		-						

1					MOTTLES	S	PED			-s	TONES	<del>-</del>	STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	TOT	CONSIST	STR POR	IMP	SPL	CALC
48	0-28	hcl	10YR43 00						0	0	HR	4					
	28-45	С	75YR56 00			0	OMNOO	00	0	0	HR	5		М			
•	45-50	С	05YR56 00			C	OMNOO	00	0	0	HR	10		P			
49	0-28	mcl	10YR42 00								HR	3					
•	28-56	hel	10YR44 00								HR	2		M			
	56-66	hc1	10YR46 00								HR	3		M			
	66-100	С	75YR46 00			C	IOMNOO	00	Ü	U	HR	3		М			
50	0-28	hcl	10YR43 00								HR	7					
ì	28-35	С	75YR44 00								CH	5		M 			
	35-45	С	75YR44 00						0	0	СН	20		М			
51	0-20	mzcl	10YR43 00								HR	7					
l	20-55	hzcl	10YR54 00						0	0	HR	15		М			
52	0-20	hzc1	10YR43 00						5	0	HR	10					
l	20-35	С	75YR44 00						0	0	HR	20		М			
53	0-25	hcl	10YR43 00						2	0	HR	7					
ł	25-45	С	75YR44 00						0	0	HR	10		M			
54	0-28	mzcl	10YR43 00						5	0	HR	15					
	28-32	mzcl	10YR54 00						0	0	CH	50		М			
Ì	32-67	ch	00CH00 00						0	0		0		Р			
55	0-20	mzcl	10YR43 00						5	0	СН	15					
	20-30	hzc1	10YR54 00						0	0	CH	20		M			
}	30-65	ch	00CH00 00						0	0		0		Р			
56	0-20	mcl	10YR43 00						2	0	HR	5					
	20-55	С	75YR44 00						0	0	HR	10		М			
57	0-25	mzcl	10YR43 00								HR	4					
	25-45	hzcl	75YR44 00						0	0	HR	5		М			
58	0-28	hc1	10YR43 00								HR	4					
Ì	28-55	С	75YR44 00	OOMNO	00 00 C				0	0	HR	2		М			
59	0-30	hc1	10YR43 00								HR	10					
1	30-70	С	75YR54 00						0	0	HR	5		М			
60	0-30	mzcl	10YR43 00						2	0	СН	10					
	30-65	ch	00CH00 00						0	0		0		Р			
61	0-28	mzcl	10YR42 00								HR	7					
_	28-63	ch	00CH00 00						0	0		0		Р			
_																	

					MOTTLES	<b></b> -	PED			-STC	NES	STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2 :	>6 L	TO <b>T</b> HTI.	CONSIST	STR POR IMP	SPL	CALC
62	0-28	mzcl	10YR43 00						2	0 H	IR 7				
	28-50	hcl	10YR54 00						0	0 F	IR 10		М		
63	0-28	mzcl	10YR43 00						2	0 0	•				
	28-63	ch	00CH00 00						0	0	0		Р		
64	0-25	mzcl	10YR43 00						1	0 H					
•	25–60	ch	00CH00 00						0	0	0		Р		
65	0-25	mzcl	75YR33 00							0 F					
	25–38	hzcl	10YR54 00						0	0 F			М		
	38-73	ch	00CH00 00						0	0	0		Р		
66	0-30	mzcl	10YR43 00						2	0 F	IR 7				
	30-65	ch	00CH00 00						0	0	0		Р		
67	0-25	mzcl	10YR43 00						0	0 0	ЭН 5				
1	25-60	ch	00CH00 00						0	0	0		P		
<b>68</b>	0-32	mzcl	10YR43 00						4	0 F	IR 10				
_	32-67	ch	00CH00 00							0	0		Р		
69	0-25	mzcl	75YR33 00							0 H					
<b>n</b>	25-55	hzcl	10YR64 00						0	0 0	CH 20		М		
70	0-20	mzcl	75YR33 00						2	0 F	iR 7				
	20-40	С	75YR54 00						0	0 F	ir 5		М		
	40-75	ch	00CH00 00						0	0	0		P		
71	0-25	mc1	75YR33 00						5	0 H	IR 10				
•	25-45	hc1	75YR44 00						0	0 H	IR 10		М		
72	0-28	mcl	75YR33 00						7	0 H	IR 12				
_	28-60	hcl	75YR54 00						0	0 H	IR 5		М		
73	0-25	mcl	10YR43 00						5	0 H	IR 10				
_	25-65	С	75YR <b>54 00</b>						0	0 H	IR 10		М		
74	0-28	mcl	75YR33 00						7	0 H	IR 12				
	28-55	С	75YR54 00						0	0 H	IR 5		М		
_	55-65	С	75YR44 00	000C0	0 00 C			S	0	0 H	IR 2		М		
	65-100	ch	00CH00 00					S	0	0	0		P		
75	0-28	hcl	10YR43 00						5	0 Н	IR 10				
	28-60	С	75YR <b>54</b> 00	00MN0	0 00 C				0	0 H	IR 5		М		
	60-100	c	75YR54 00	00000	0 00 C			S	0	0 H	IR 2		М		
76	0-28	mc1	10YR43 00						5	0 н	R 10				
	28-60	c	75YR54 00						0	0 н			М		

1					MOTTLES		PED			<b>-</b> \$1	TONES		STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	тот	CONSIST	STR F	OR	IMP	SPL	CALC
77	0-28	hcl	10YR43 00						2	0	HR	7						
	28-40	С	75YR54 00						0	0	HR	20		М				
78	0-28	mcl	10YR43 00						5	0	HR	10						
	28-40	hcl	75YR54 00						0	0	HR	10		M				
79	0-28	mzcl	75YR33 00						4	0	HR	10						
	28-50	hc1	75YR54 00						0	0	HR	10		М				
80	0-28	hcl	10YR42 00						4	0	HR	9						
	28-45	С	10YR44 00						0	0	HR	10		М				
81	0-28	hc1	10YR42 00						4	0	HR	9						
•	<b>2</b> 8-52	С	75YR54 00	000C0	0 00 C		00MN00	00 S	0	0	HR	5		Р	Y		Y	
82	0-30	hc1	10YR53 00						4	0	HR	10						
	30-65	ch	00CH00 <b>00</b>						0	0		0		Р				
, 83	0-28	hc1	10YR43 00						7	0	HR	12						
_	28-38	c	75YR54 00						0	0	HR	5		М				
	38-48	С	10YR64 00						0	0	CH	15		М				
	48-83	ch	00CH00 00						0	0		0		Р				
84	0-32	hc1	10YR43 00						4		HR	9						
	32-50	С	10YR64 00						0	0	HR	5		М				
85	0-28	hc1	10YR43 00						4	0	HR	9						
	28-40	hc1	10YR54 00						0	0	HR	5		М				
86	0-28	hc1	10YR43 00						4	0	HR	9						
_	28-40	С	75YR44 00	000C0	0 00 C			S	0	0	HR	5		Р	Υ			
	40-75	ch	00CH00 00						0	0		0		Р				
87	0-30	hcl	10YR43 00						4	0	HR	9						
	30-62		25YR46 00				00MN00				HR	5		М				
	62-100	С	25YR36 00	000C0	0 00 C		00MN00	00 Y	0	0	HR	2		Р	Υ		Y	
88	0-25	hc1	10YR43 00						4	0	HR	9						
	25-40	С	25YR46 00						0	0	HR	2		M				
_	40-70	С	25YR46 00	000C0	0 00 C		00MN00	00	0	0	HR	2		Р	Υ		Y	
89	0-30	hc1	10YR42 00						4	0	HR	9						
	30-60	С	10YR54 00						0	0	HR	10		М				
90	0-28	hc1	10YR53 00						7	0	HR	12						
5	28-60	С	75YR54 <b>0</b> 0						0	0	HR	20		М				
91	0-30	mcl	10YR43 00						7	0	HR	12						
	30-60	c	75YR54 00						0	0	HR	10		М				

1					MOTTLES								STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6 1	LITH	TOT	CONSIST	STR	POR I	MP SP	L CAL	.C
92	0-28	mzc1	10YR43 00						10	0 1	HR	15						
}	28-63	ch	00CH00 00						0	0		0		Р				
93	0-32	hc1	10YR42 00						7	0 1	HR	12						
	32-67	ch	00CH00 00						0	0		0		Р				
94	0-28	mcl	10YR43 00						7	0 (	HR	12						
	28-45	С	10YR54 00						0	0 1	HR	10		M				
5	45-70	ch	00CH00 00						0	0		0		P				
95	0-25	hc1	10YR43 00						4	0 1		9						
	25-35	С	75YR44 00						0	0 1	HR	2		М				
	35-70	ch	00CH00 00						0	0		0		Р				
96	0-25	mzcl	10YR43 00						4	0	HR	9						
•	25-40	С	75YR44 00						0	0	HR	7		M				
	40-75	ch	00CH00 00						0	0		0		Р				
97	0-25	mcl	10YR43 00						7	0	HR	12						
•	25-60	С	10YR54 00						0	0	СН	30		M				
98	0-25	mcl	10YR43 00						7	0	HR	12						
•	25-35	hc1	10YR54 00						0	0	HR	10		М				
99	0-25	hc1	10YR43 00						4	0	HR	9						
5	25-38	С	10YR54 00	000C0	0 00 C	C	00MN00	00 S	0	0	HR	2		М				
	38-52	С	10YR53 00	000C0	M 00 0	C	OMNO0	00 Y	0	0		0		Р	Y	٧	,	
100	0-28	hc1	10YR43 00						4	0	HR	9						
	28-40	С	10YR54 00						0	0		5		М				
ì	40-50	С	05YR54 00	000C0	0 00 F	C	OMNO0	00	0	0	HR	5		Р	Υ			
101	0-28	hcl	10YR43 00						7	0	HR	12						
	28-55	С	75YR54 00						0	0	HR	2		Р				
	55-90	ch	00CH00 00						0	0		0		Р				
102	0-25	hcl	10YR43 <b>00</b>						7			12						
1	25-40	С	75YR54 00						0	0	HR	5		М				
j	40-75	ch	00CH00 00						0	0		0		Р				
103	0-25	c	10YR43 00						5	0		9						
	25-65	c	05YR46 00	OOMNO	0 00 C				0	0	HR	2		P	Υ	Y		
•	65–100	ch	00CH00 00						0	0		0		Р		Y	•	
104	0-25	hc1	10YR43 00						5	0		9						
	25-60	С	10YR54 00						0	0	HR	5		М				
105	0-25	hc1	10YR43 00						5	0	HR	9						
	25-65	С	10YR54 00						0			5		M				

					MOTTLES		PED			-ST	ONES		STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2 :	<b>-</b> 6	LITH	TOT	CONSIST	STR	POR	IMP SP	L CALC	
106	0-25	mcl	10YR42 00						8	0	HR	13						
107	0-25	mcl	10YR43 00						7	0	HR	17						
108	0-28	hcl	10YR42 00						4	0	HR	9						
	28-55	С	75YR54 00	OOMNO	0 00 C				0	0	HR	5		М				
109	0-25	С	10YR43 00						7	0	HR	12						
109	25-48	С	25YR46 00	OOMNO	00 C				0	0	HR	2		Ρ	Υ			
_	48-83	ch	00CH00 00						0	0		0		Ρ				
110	0-28	mc1	10YR43 00						0	0	HR	2						
	28-45	hc1	10YR44 00						0	0	HR	3		М				
•	45-60	С	75YR56 00			(	DOMNOO	00	0	0	HR	10		M				
111	0-30	mc1	10YR43 00						2	0	HR	7						SEIVED TOPSOIL
112	0-30	mcl	10YR43 00						7	0	HR	15						SEIVED TOPSOIL
113	0-28	mzcl	10YR43 00						9	0	HR	17						SEIVED TOPSOIL
114	0-32	hc1	10YR42 00						7	0	HR	15						SEIVED TOPSOIL
115	0-30	mcl	10YR43 00						6	0	HR	15						SEIVED TOPSOIL
116	0-28	hcl	10YR53 00						4	0	HR	10						SEIVED TOPSOIL
117	0-25	mzcl	10YR53 00						3	0	HR	7					Υ	
117	25-65	ch	00CH00 00						0	0	HR	5		Ρ			Y	
118	0-25	mzcl	10YR43 00						5	0	HR	10					Υ	
	25-65	ch	00CH00 00						0	0	HR	5		Р			Y	
119	0-25	mzc1	10YR43 00						8	0	HR	12					Υ	
1	25-65	ch	00CH00 00							0		5		Р			Υ	
120	0-28	mzcl	10YR43 00						0	0	HR	8					Υ	
_	28-40	hzc1	10YR43 81						0	0	HR	10		M			Υ	
	40-80	ch	00CH00 00						0	0	HR	5		Ρ			Υ	
121	0-27	mzcl	10YR43 00						0	0	HR	10					Υ	
	27-67	ch	00СН00 00						0	0		0		Р			Y	
122	0-25	mzcl	10YR43 00						5	0	HR	8					Υ	
	25-65	ch	00СН00 00						0		HR	5		Р			Y	
123	0-25	mc1	10YR43 00						5	o	HR	10						
_	25-85	mzcl	10YR64 81						0		CH	30		М			Υ	
	85-120		00CH00 00						0		HR	3		P			Ý	
	1	<del>-</del>							-	-		=					•	

#### COMPLETE LIST OF PROFILES 12/12/94 BASINGSTOKE LP: PLAN 1

----STONES---- STRUCT/ SUBS ----MOTTLES---- PED SAMPLE DEPTH TEXTURE COLOUR COL ABUN CONT COL. GLEY >2 >6 LITH TOT CONSIST STR POR IMP SPL CALC 10YR43 00 O O HR 8 Υ 124 0-25 mc1 Ρ 25-35 75YR46 00 00 00MM00 0 0 HR 3 С 00CH00 00 0 0 HR 5 35-75 ch 125 0-25 mc1 10YR42 32 0 0 HR 3 25-60 mc1 10YR43 00 O HR 10 М 5 0 HR 10YR43 00 10 126 0-28 mzcl 0 28-68 00CH00 00 0 127 0-25 mc1 10YR42 32 4 0 HR 7 0 0 HR 15 25-40 നേടി 10YR43 00 М 40-48 10YR43 81 0 CH 50 Ρ mzcl 48-60 00CH00 00 0 0 0 ch 128 0-30 hcl 10YR42 32 0 0 HR 10 30-50 75YR43 44 0 0 HR 12 М С 00 00MN00 50-60 · 75YR43 00 0 0 HR 20 hcl 129 5 0 HR 15 0-29 mzc] 10YR43 00 29-69 ch 00CH00 00 0 0 0 Ρ 130 10YR53 00 5 0 HR 0-22 mzcl 12 00CH00 00 0 HR 5 22-62 ch 131 0-26 10YR43 00 3 0 HR 13 Υ mzcl 26-66 00CH00 00 0 0 0 10YR43 00 O HR 10 0-27 5 mc1 10 0 HR 27-40 С 75YR46 00 М Υ 40-80 00CH00 00 0 0 HR 5 10YR43 32 133 0-25 0 0 HR 10 Υ mcl 25-40 O HR Υ hcl 10YR44 00 10 М 40-50 hzcl 10YR43 00 0 CH 20 М 50-90 00CH00 00 0 HR 5 ch 134 0-22 10YR42 00 2 0 HR 7 mc1 22-39 40YR44 46 0 0 HR 5 М mcl 39-79 00CH00 00 0 0 0 ch 10YR43 00 7 3 HR 15 135 0-26 hcl 75YR46 00 0 0 HR 15 М 26-29 С 0 P 29-69 ch 00CH00 00 0 0

SOIL PIT DESCRIPTION

Site Name : BEGGARWOOD LANE BASINGLP

Pit Number :

Grid Reference: SU59404850 Average Annual Rainfall: 851 mm

Accumulated Temperature: 1360 degree days

Field Capacity Level : 184 days

: Cereals

Slope and Aspect

: 02 degrees W

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	MOTTLES	STRUCTURE
0 22	147CI	100042.00		• • •		

0- 22	MZCL	10YR43 00	6	11	
22- 37	HZCL	10YR44 00	0	11	MDCSAB
37- 75	CH	10YR81 00	0	50	

Wetness Grade: 2

Wetness Class

: I

Gleying SPL

:000 cm : No SPL

Drought Grade: 3A

APW: 091mm MBW: 2 mm

APP: 093mm MBP: 18 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness