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EAST HAMPSHIRE DISTRICT LOCAL PLAN Land NE of Heath Farm, Petersfield

Agricultural Land Classification ALC Map and Report

July 1998

Resource Planning Team Eastern Region FRCA Reading

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# AGRICULTURAL LAND CLASSIFICATION REPORT

# EAST HAMPSHIRE DISTRICT LOCAL PLAN LAND NE OF HEATH FARM, PETERSFIELD

### INTRODUCTION

1. This report presents the findings of a detailed Agricultural Land Classification (ALC) survey of 39.9 hectares of land located north-east of Heath Farm, south-east of Petersfield, Hampshire. The survey was carried out during July 1998.

2. The survey was undertaken by the Farming and Rural Conservation Agency (FRCA)<sup>1</sup> on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF), in connection with its statutory input to the second review of the East Hampshire District Local Plan. This survey supersedes any previous ALC information for this land.

3. The work was conducted by members of the Resource Planning Team in the Eastern Region of FRCA. 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 use on the site consisted of permanent and ley grassland, cereals, maize and scrubland. The areas mapped as 'Other land' include farm buildings and tracks and residential buildings.

#### 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 site are summarised in Table 1 overleaf.

7. The fieldwork was conducted at an average density of 1 boring per hectare of agricultural land. In total 43 borings and 3 soil pits were described.

8. The site has mainly been classified as Subgrade 3a (good quality) and Subgrade 3b (moderate quality) land with a small area of Grade 2 (very good quality agricultural land). The soil profiles are variable across the site and the principal limitations are soil droughtiness and soil texture. Soil wetness is restricting very occasionally.

<sup>&</sup>lt;sup>1</sup> FRCA is an executive agency of MAFF and the Welsh Office

Grade/Other land	Area (hectares)	% surveyed area	% site area			
2	2.9	7.4	7.3			
3a	17.7	45.4	44.4			
3b Other land	18.4 0.9	47.2 N/A	46.1 2.2			
Total surveyed area Total site area	39.0 39.9	100 -	97.8 100			

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

9. Land which is assigned to Grade 2 comprises deep, virtually stoneless, well drained, sandy soils. These are restricted in their agricultural use to a minor extent by topsoil texture and/or soil droughtiness limitations. The topsoils are light in texture, being loamy medium sands, or very occasionally medium sandy loams. Where loamy medium sand topsoils occur, this itself causes land to be limited to a maximum of Grade 2. A topsoil texture limitation means the land is likely to be easily worked, but susceptible to soil erosion. In addition, they may be prone to surface capping and slaking, thereby forming compacted layers if cultivated or traversed when wet. A soil droughtiness limitation also occurs due to the interaction between these freely draining, sandy soils, and the prevailing climate which causes profile available water to be insufficient in some years to fully meet crop needs, such that Grade 2 is appropriate on the basis of this minor limitation. Yield potential may be slightly affected as a result.

10. Subgrade 3a land comprises soils which are similar to, or lighter than, those described in the Grade 2 unit with upper subsoils often consisting of medium sand textures. Soil droughtiness is the major limitation within this unit which due to the higher sand content will be more masked than for the Grade 2 land and result in lower and less consistent crop yields. Occasional borings are restricted to Subgrade 3a quality on the basis of a soil wetness limitation where the soils are heavier in texture and are not as well drained. Soil wetness adversely affects crop growth or imposes restrictions on cultivations or grazing by livestock.

11. The majority of the land within the Subgrade 3b unit (moderate quality agricultural land) is limited by topsoil texture alone. Most of the soils have medium sand topsoils which means that they are not eligible for Grades 1, 2 or 3a. Due to the medium sand topsoils these soils are especially prone the adverse effects described in paragraph 9 above. In particular they are very susceptible to drought stress which is exaggerated by the coarse nature of the topsoils. Excessive drying after sowing may result in poor germination and establishment and a consequent loss of yield.

# FACTORS INFLUENCING ALC GRADE

### Climate

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

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

14. The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.

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

16. The combination of rainfall and temperature at this site mean that there is no overall climatic limitation. The site is believed not to be at risk from frost or exposure. The site is climatically Grade 1.

Factors	Units	Values	Values	Values
Grid reference Altitude Accumulated Temperature Average Annual Rainfall Field Capacity Days Moisture Deficit, Wheat Moisture Deficit, Potatoes	N/A m,AOD day°C mm days mm mm	SU 763 227 55 1481 944 207 96 87	SU 767 231 55 1481 939 206 96 87	SU 763 226 59 1477 949 208 95 86
Overall Climatic Grade	N/A	Grade 1	Grade 1	Grade 1

Table 2:	Climatic	and	altitude	data
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### Site

17. The majority of the site lies at an altitude of between 50m and 60m AOD and is flat or very gently sloping. Nowhere on the site does gradient, microrelief or flood risk limit land quality.

18. Across localised parts of the site, notably in the Subgrade 3b area in the far west, there was some evidence of slight soil erosion. The light topsoil textures have allowed a small extent of water erosion to occur, with small scale rills developing mid-slope and the resultant material being deposited on the colluvial footslopes. However, the extent of this phenomenon was not thought to be sufficient to cause the land utilisation, and therefore the ALC grade, to be affected.

### Geology and soils

19. The published geological information for the area (BGS, 1975 and 1958) shows the majority of the site to be underlain by Folkstone Beds deposits which consist of sand and sandstone. In addition to this, Sandgate deposits are likely to occur along the extreme northern edge of the site.

20. The most recently published soil information for the area (SSEW, 1983) shows the Fyfield Association to cover the whole site. These soils are described as 'Deep well drained often stoneless coarse loamy and sandy soils. Some fine loamy over clayey soils. Risk of water erosion.' (SSEW, 1983).

21. Upon detailed field examination, soils similar to the above description were found to exist across the survey area.

### Agricultural Land Classification

22. The details of the classification of the site and total area surveyed are shown on the attached ALC map and the area statistics of each grade are given in Table 1.

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

### Grade 2

24. A limited area of very good quality agricultural land (2.9 hectares) has been mapped in the central south-east of the site. The land is restricted to a minor extent by a combination of soil droughtiness and/or soil texture. A wide range of crops producing a generally high level of yield would be expected, assuming a good standard of management.

25. The soils are found to comprise non-calcareous, loamy medium sand, or very occasionally medium sandy loam topsoils. These may contain up to 5% total flints by volume. Upper subsoils comprise similar textures and are similarly stony, although lower subsoil horizons are found to be variable, some passing to sandy clay loam or heavy clay loam. Relatively abrupt textural changes are not uncommon. Many subsoil horizons consist of interbedded and intermixed sand and clay. The majority of profiles within this mapping unit exhibit evidence of slight soil wetness, being gleyed from variable depths below the topsoil (between 37 and 90 cm). Such characteristics principally arise from a fluctuating watertable, rather than slowly permeable horizons. These soils are assigned to Wetness Class I, Wetness Grade 1. Soil pit 3 ( see Appendix II) is representative of the soils described within this Grade 2 mapping unit.

26. The land assigned to Grade 2 is limited to a minor extent as a result of the light topsoil textures (a topsoil texture limitation) and/or soil droughtiness. Where loamy medium sand topsoils occur, the land is likely to be easily worked, but susceptible to drought stress, soil erosion and some soil structural problems. As a result, land is not eligible for Grade 1. In addition, the combination of these sandy soils and the prevailing climatic conditions results in a slight soil droughtiness restriction. Moisture balance calculations indicate that soil moisture reserves may not be sufficient to fully meet the demands of a growing crop throughout the year. Consequently, the crop may experience drought stress during the drier parts of the growing season.

#### Subgrade 3a

27. Just under half of the survey area is mapped as good quality agricultural land (Subgrade 3a). The soil profiles are variable within this unit. Soil droughtiness is the major

limitation with soil wetness being overriding occasionally.

28. Areas affected by soil droughtiness commonly have similar, though significantly more sandy and better drained, profiles than those described above. Topsoils comprise mainly non-calcareous, stoneless loamy medium sand or medium sandy loam textures. These rest upon similar or lighter (medium sand) upper subsoils which may contain up to 3% total flints by volume. Lower subsoils vary considerably in texture and horizon sequences from medium sands to sandy clay loam, with a combination of textural classes in between. The deep, sandy, well drained nature of these soils means that Wetness Class I is considered appropriate. On the whole, the profiles often have restricted reserves of available water, such that there is a greater risk of drought stress to plants in most years compared to the soils within the Grade 2 unit. Very occasional borings within this unit were impenetrable to the soil auger at moderate depths.

29. Soil wetness is limiting at occasional locations within the Subgrade 3a mapping unit. The topsoils and upper subsoils are similar to those already described. However, lower subsoils comprise clayey textures which are dense and have low porosity (from depths between 60 and 65cm). Such slowly permeable subsoils impede drainage causing gleying to occur at shallow depths in the profiles (between 30cm and 35cm). The combination of soil textures and local climatic regime places the soils in Wetness Class III. The utilisation of the land is likely to be restricted because the number of days when cultivation and/or grazing can occur without causing structural damage to the soil will be reduced. However, the light topsoil textures are advantageous since the soils are more workable than those with a higher clay content, consequently, Subgrade 3a is appropriate for this land.

### Subgrade 3b

30. The remainder of the survey area is mapped as Subgrade 3b (moderate quality) on the basis of a topsoil texture limitation. The soils within this unit are excessively well drained, deep and sandy.

31. Topsoils are stoneless and very light in texture comprising medium sand. These overlie similar upper subsoils. Lower subsoils are variable in texture ranging from medium sand to clay (with a variety of textural classes in between which reflect the interbedded nature of the underlying lithology). Wetness Class I is considered appropriate for the soils within this mapping unit. Occasional borings were impenetrable to the auger at moderate depths (50cm). Soils with medium sand topsoils are not eligible for Grades 1, 2 or Subgrade 3a. In particular they are very susceptible to drought stress which is exaggerated by the coarse nature of the topsoils. Excessive drying after sowing may result in poor germination and establishment and a consequent loss of yield. The risk of erosion, capping and slaking, will also be greater than for higher quality land on the site.

Sharron Cauldwell Resource Planning Team FRCA Eastern Region

### SOURCES OF REFERENCE

British Geological Survey (1975) Sheet No. 300, Alresford 1:50,000 scale (Drift Edition). BGS: London.

British Geological Survey (1958) Sheet No. 316, Fareham 1 inch series (Drift Edition). BGS: London.

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

MAFF: London.

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

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

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

### 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 I 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 that 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 that restricts use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

# ΑΡΡΕΝΟΙΧ Π

# SOIL DATA

**Contents:** 

Sample location map

Soil abbreviations - explanatory note

Soil pit descriptions

Soil boring descriptions (boring and horizon levels)

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### 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> :	<b>Overall Climate</b>	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
EX:	Exposure				-

# Soil Pits and Auger Borings

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

<b>S</b> :	Sand	LS:	Loamy Sand	SL:	Sandy Loam
SZL:	Sandy Silt Loam	CL:	Clay Loam	ZCL:	Silty Clay Loam
ZL:	Silt Loam	SCL:	Sandy Clay Loam	<b>C</b> :	Clay
SC	Sandy Clay	ZC:	Silty Clay	<b>OL</b> : -	Organic Loam
<b>P</b> :	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

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- **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.

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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/metamo	rphic ro	ck

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

8. STRUCT: the degree of development, size and shape of soil peds are described using the following notation:

degree of development	WK: weakly developed ST: strongly developed	<b>MD</b> : moderately developed
ped size	F: fine C: coarse	M: medium VC: very coarse
<u>ped shape</u>	S : single grain GR: granular SAB: sub-angular blocky PL: platy	M: massive AB: angular blocky PR: prismatic

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

L: loose	VF: very friable	FR: friable	FM: firm	VM: very firm
EM: extrem	mely 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

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# LIST OF BORINGS HEADERS 24/08/98 HEATH FARM, PETERSFIELD

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NO.         GRID REF USE         GRINT GLEY SPL CLASS GRADE         AP         MB         DRT         FLOOD         EXP         DIST         LINIT         COMMENTS           1         SUP602310         SGB         30         58         3         3         84         F1         59         44         TX         89         TX         89         SEE P           4         SUP5602300         SGB         1         1         85         -11         59         -23         34         TX         39         SEE P           7         SUP5602300         SGB         1         1         65         -22         34         TX         39         SEE P           7         SUP5602300         RGR         1         1         65         -27         52         33         TX         38         QMT/TOOI           9         SUP670220         RGR         65         1         1         74         -22         57         -30         39         TX         38         SEE P           10         SUP6602300         RGR         1         1         74         -22         57         -30         39         TX         38         SEE P </th <th>SAMPI</th> <th>F</th> <th>AS</th> <th>PFCT</th> <th></th> <th></th> <th></th> <th>WFT</th> <th>NESS</th> <th>-WH</th> <th>EAT-</th> <th>-P0</th> <th>TS-</th> <th>א</th> <th>1. RFI</th> <th>FROSN</th> <th>FROST</th> <th>CHEM</th> <th>ALC.</th> <th></th>	SAMPI	F	AS	PFCT				WFT	NESS	-WH	EAT-	-P0	TS-	א	1. RFI	FROSN	FROST	CHEM	ALC.	
Interview	NO.	GRID REF	USE	. 20,	GRONT	GLEY	SPI	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	F		ST LIMIT		COMMENTS
1       SUP602110 SCB       1       1       7       -20       60       -72       34       TX       38         2       SUP602200 SCB       1       1       85       -11       58       -22       34       TX       38       SEE 1P         4       SUP602200 SCB       1       1       82       -14       65       -22       34       TX       38       SEE 1P         7       SUP602200 SCB       1       1       82       -16       62       -25       34       TX       38       SEE 1P         7       SUP602200 SCB       1       1       76       -20       52       34       TX       38       SEE 1P         1       1       76       -20       75       2-3       34       TX       38       SEE 1P         1       1       74       -22       77       30       30       TX       38       SEE 2P         1       1       74       -22       57       30       30       TX       38       SEE 2P         1       1       74       -22       57       30       30       TX       38       SEE 2P         1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>.</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>. 2000</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>							<b>.</b>								. 2000	-				
2       SUPSQ2310       PGR       30       SA	1	SU76602310	SCB					1	1	76	-20	60	-27	3A				хт	3B	
3       3)       3)       5)       1       1       1       65       -1       50       34       TX       38       SEE 1P         4       SU75602200 PGR       1       1       1       65       -22       34       TX       38       SEE 1P         7       SU76502200 PGR       1       1       1       65       -22       34       TX       38       SEE 1P         7       SU76502200 PGR       2       2       69       -27       52       -53       38       TX       38       SEE 1P         7       SU76502200 PGR       1       1       76       -22       53       38       TX       38       SEE 1P         10       SU7602280 PGR       65       1       1       77       -22       57       -30       B       TX       38       SEE 2P         11       SU7502282 PGR       20       04       1       1       74       -22       57       -30       B       TX       38       SEE 2P         12       SU7502282 PGR       1       1       1       84       -22       57       -30       B       DR       34       0 DIST DRAIN <t< td=""><td>2</td><td>SU76702310</td><td>PGR</td><td></td><td></td><td>30</td><td>58</td><td>3</td><td>3A</td><td>84</td><td>-12</td><td>71</td><td>-16</td><td>3A</td><td></td><td></td><td></td><td>ТХ</td><td>3B</td><td></td></t<>	2	SU76702310	PGR			30	58	3	3A	84	-12	71	-16	3A				ТХ	3B	
4       SUPSO2200 PGR       1       1       82       -14       65       -22       34       TX       39       SEE 1P         7       SUPSO2200 PGR       2       69       -22       34       TX       38       PYT TOPSOIL         9       SUPSO2200 PGR       2       69       -75       2-5       34       TX       38       9       PYT TOPSOIL         9       SUPSO2200 PGR       2       69       -75       2-5       34       TX       38       9       PYT TOPSOIL         10       SUPSO2202 PGR       65       1       1       75       12       34       DR       34       QUIST DRAIN         13       SUPSO2220 PGR       30       60       3       34       116       20       100       32       2       73       38       SEE 2P         13       SUPSO2220 PGR       1       1       18       18       18       18       18       18       18       14       14       2       16       98       2       2       PR       34       2         14       SUPSO2200 PGR       37       1       1       84       2       57       20       3	3	SU76502300	SCB					1	1	85	-11	58	-29	3A				ТХ	3B	SEE 1P
5       SUJFORD200 PGR       1       1       82       -14       65       -22       3A       TX       3B       SEE 1P         7       SUJFG02200 PGR       2       2       63       -27       52       -35       3B       TX       3B       0 M/T 70CH         9       SUJFG02200 PGR       1       1       75       -12       3A       TX       3B       0 M/T 70CH         10       SUJFG02200 PGR       65       1       1       74       -22       57       -30       3B       TX       3B       0 M/T 70CH         11       SUJFG022200 PGR       30       60       3       3A       116       -22       57       -30       3B       TX       3B       SEE 2P         12       SUJFG02220 PGR       1       1       1       42       57       -20       3A       PR       A	4	SU76602300	PGR					1	1	82	-14	65	-22	3A				ТХ	3B	SEE 1P
7       SU76502290 GRB       1       1       2       1       1       2       2       2       3       1       1       2       2       6       2       2       3       3       1	5	SU76702300	PGR					1	1	82	-14	65	-22	3A				тх	38	SEE 1P
7       SUPESO2290 SCB       1       1       8       85       -8       62       -25       3A       TX       3B       PTY TORPOLL         8       SUPESO2200 FRA       2       2       69       -27       52       3A       TX       3B       0.4/T       70CH         10       SUPESO2200 FRA       65       1       1       78       62       -25       3A       TX       3B       0.4/T       70CH         11       SUPESO2200 FRA       65       1       1       77       -22       57       -30       3B       TX       3B       SEE 2P         12       SUPESO2220 LEY       30       60       3       3A       116       20       10       13       2       TX       3B       SEE 2P         13       SUPESO2220 LEY       30       60       3       3A       116       20       72       3A       DR	Ū	0070702000	, an						•											
8       SU7602220       R6R       2       2       69       -27       52       -35       38       TX       38       Q M/T 700H         9       SU7602280       R6R       1       1       78       -16       62       -25       34       TX       38       Q M/T 700H         9       SU7602280       R6R       65       1       1       78       -12       SU7       AU       DR <sac< td="">       Q DIST DRAIN         11       SU7502280       R2E       30       60       3       34       16       20       13       2       HE       AU       Q DIST DRAIN         13       SU7602280       LEY       1       1       74       -22       57       -30       38       TX       38       SEE 2P         14       SU7602280       LAT       1       1       74       -22       57       -20       34       DR       34       DIS       34       DIS       14       1       14       14       14       14       14       15       15       34       DIS       34       DIS       34       DIS       34       DIS       34       DIS       34       DIS       34</sac<>	7	SU76502290	SCB					1	3	85	-8	62	-25	3A				тх	38	PTY TOPSOIL
D         D	, A	SU76602290	PGP					2	2	69	-27	52	~35	38				тх	38	0 W/T 700M
D         D <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<>	ğ	SU76702290	PGR					1	1	78	-18	62	-25	34				אד	3B	SFE 1P
15       SUPSOLZED MAR       15       1 <th1< th=""> <th1< th="">       1       &lt;</th1<></th1<>	10	SU76822286	DCD			65		1	1	97	1	75	-12	34				DR	34	O DIST DRAIN
11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       12       11       11       11       12       11       11       11       12       11       11       11       12       12       11       11       11       12       12       11       11       12 <td< td=""><td>11</td><td>SU75792272</td><td>MZE</td><td></td><td></td><td>00</td><td></td><td>1</td><td>1.</td><td>74</td><td>-22</td><td>57</td><td>_30</td><td>3R</td><td></td><td></td><td></td><td>TY</td><td>38</td><td>SFE 2P</td></td<>	11	SU75792272	MZE			00		1	1.	74	-22	57	_30	3R				TY	38	SFE 2P
12       SU7500228 M2E       30       60       3       3A       116       20       100       13       2       HE       3A       Q DIST DRAIN         13       SU76002280 LEY       1       1       14       -2       57       -30       3B       TX       3B       SEE 2P         14       SU75002280 OAT       1       1       1       -5       75       -12       3A       DR       3A         15       SU75002280 OAT       1       1       10       -5       75       -12       3A       DR       3A         17       SU76402280 PGR       1       1       142       46       98       11       1       TX       2         9       SU7602280 PGR       1       1       146       -12       67       -20       3A       DR       3A         21       SU7602280 PGR       1       1       126       22       22       DR       2       L// O SEE 3P         22       SU75002280 PGR       1       1       126       22       3A       DR       3A       155 HAR0/DRY         23       SU75002270 PGR       1       1       17       2-25       3A <td>• •</td> <td>00/0702272</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>'</td> <td>• ·</td> <td></td> <td></td> <td>57</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>00</td> <td>JEE 2.</td>	• •	00/0702272						'	• ·			57							00	JEE 2.
13       SU75002280 LEY       1       1       74       -22       57       -30       38       TX       38       SEE 2P         14       SU75002280 0AT       1       1       1       66       -21       3A       DR       3A         15       SU7502280 0AT       1	12	SU75902282	M7F			30	60	3	3A	116	20	100	13	2				WE	3A	O DIST DRAIN
14       SUTING2280 OAT       1	13	SU76002280	LEV			•••	••	1	1	74	-22	57	-30	- 38				ТХ	38	SEE 2P
15       SUTFORD2280 DAT       1	14	SU76102280	OAT					1	1	83	-13	66	-21	3A				DR	34	
15       SUTABLESS ORT       1	15	SU76202280	ΟΔΤ					1	1	91	-5	75	-12	34				DR	34	
17       SU76402280 PGR       1	16	SU76302280	ÓAT					1	1	84	-12	67	-20	34				DR	34	
17       SU76402280 PGR       1       1       58       -38       56       -29       38       DR       38       IMP 50         18       SU75602280 PGR       37       1       1       142       46       98       11       1       TX       2         19       SU7602280 PGR       1       1       185       -11       68       -19       3A       DR       3A         20       SU7602280 PGR       1       1       185       -11       68       -19       3A       DR       3A         21       SU7602280 PGR       1       1       185       -38       62       -25       38       DR       3A       165       HARD/DRY         23       SU75902268 PGR       1       1       73       -23       56       -31       38       TX       38       SEE 2P         24       SU7502270 PGR       1       1       73       -23       56       -33       3A       DR       3A       DR       3A         25       SU7502270 PGR       1       1       72       -24       55       -32       3A       DR       3A         26       SU7602270 OAT	10	30/0302200	041					•	•	0.		0.	20	<b>~</b> ~						
18       SUJ7502220 PGR       37       1       1       142       46       98       11       1       TX       2         19       SUJ7602220 PGR       1       1       85       -11       66       -19       3A       DR       3A         20       SUJ7602220 PGR       1       1       84       -12       67       -20       3A       DR       3A         21       SUJ7602220 PGR       85       1       1       28       29       2       DR       2       GL       70       SEE       3P         23       SUJ7502270 PMZE       35       65       3       3A       105       9       89       -2       2       WE       3A       ORGANIC T/S         24       SUJ7602270 PGR       1       1       73       -23       56       -31       3B       TX       3B       SEE 2P         25       SUJ7602270 PGR       1       1       79       -71       62       -25       3A       DR       3A       EE 2P       2       SE 2P	17	SU76402280	PGR					1	1	58	-38	58	-29	3B				DR	38	IMP 50
19       SU76602280       PGR       1       1       85       -11       68       -19       3A       DR       3A         20       SU76702280       PGR       1       1       84       -12       67       -20       3A       DR       3A         21       SU76702280       PGR       85       1       1       128       32       89       2       2       DR       2       GL       70       SEE 3P         22       SU75602280       PGR       1       1       58       -38       62       -25       38       DR       3A       OR       3A       ORGANIC T/S         24       SU75602270       PGR       1       1       73       -23       56       -31       3B       TX       3B       SEE 2P         24A       SU7602270       PGR       1       1       79       -17       62       -25       3A       DR       3A       ORGANIC T/S         24       SU7602270       PGR       1       1       79       -17       62       -25       3A       DR       3A         27       SU7602270       OAT       1       1       82       -14	18	SU76502280	PGR			37		1	1	142	46	98	11	1				тх	2	
20       SU/76702280       PGR       1       1       84       -12       67       -20       3A       DR       3A         21       SU/7602280       MZE       85       1       1       128       32       89       2       2       DR       3A         22       SU/7502280       MZE       85       1       1       128       32       89       2       2       DR       3A       DR       3A         23       SU/7502280       MZE       35       65       3       3A       105       9       89       -2       2       WE       3A       ORGANIC T/S         24       SU/7502270       PGR       1       1       73       -23       56       -31       3B       TX       3B       SEE 2P         25       SU/7602270       OAT       1       1       79       -17       62       -25       3A       DR       3A         25       SU/7602270       OAT       1       1       82       -14       65       -22       3A       DR       3A         26       SU/7602270       OAT       1       1       82       -14       65       -22 </td <td>19</td> <td>SU76602280</td> <td>PGR</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td>85</td> <td>-11</td> <td>68</td> <td>-19</td> <td>3A</td> <td></td> <td></td> <td></td> <td>DR</td> <td>- 3A</td> <td></td>	19	SU76602280	PGR					1	1	85	-11	68	-19	3A				DR	- 3A	
21       SU76002200 MZE       85       1       1       128       32       69       2       2       DR       2       GL 70 SEE 3P         22       SU75002200 MZE       35       65       3       AA       105       9       69       -2       2       WE       3A       I65 HARD/DRY         23       SU75002270 MZE       35       65       3       AA       105       9       69       -2       2       WE       3A       ORGANIC T/S         24       SU75002270 OAT       1       1       73       -23       56       -31       3B       TX       3B       SEE 2P         24       SU76102270 OAT       1       1       72       -24       55       -32       3A       TX       3B       SEE 2P         25       SU76102270 OAT       1       1       194       -2       64       -23       3A       DR       3A       Z       SEE 2P         26       SU76302270 OAT       1       1       1082       -14       65       -22       3A       DR       3A         28       SU76402270 OAT       1       1       82       -14       65       -22       3A <td>20</td> <td>SU76702280</td> <td>PGR</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td>84</td> <td>-12</td> <td>67</td> <td>-20</td> <td>34</td> <td></td> <td></td> <td></td> <td>DR</td> <td>34</td> <td></td>	20	SU76702280	PGR					1	1	84	-12	67	-20	34				DR	34	
21       0010012120 Hz       1	21	SU76802280	M7F			85		1	1	128	32	89	2	2				DR	2	GL 70 SEE 3P
22       SU75802268 M2E       1       1       58       -38       62       -25       38       DR       3A       165       HARD/DRY         23       SU75902270 MZE       35       65       3       3A       105       9       89       -2       2       WE       3A       066ANIC T/S         24       SU75902270 MZE       35       65       3       3A       105       9       89       -2       2       WE       3A       06ANIC T/S         24       SU7602270 PGR       1       1       72       -24       55       -32       3B       TX       3B       SEE 2P         25       SU76102270 OAT       1       1       79       -77       62       -25       3A       DR       3A       EE 2P         26       SU76402270 OAT       1       1       130       34       92       5       2       3A       DR       3A         28       SU76402270 OAT       1       1       180       -15       65       -22       3A       DR       3A       2       SEE 3P         29       SU7602270 OAT       1       1       180       -16       5       -22	-	00,0002200						•		.40	02		-	-				-	-	
23       SU75902270       MZE       35       65       3       3A       105       9       89       -2       2       HE       3A       ORGANIC T/S         24       SU75902270       MRE       1       1       73       -23       56       -31       3B       TX       3B       SEE 2P         24A       SU7602270       MAT       1       1       72       -24       55       -32       3B       TX       3B       SEE 2P         25       SU76102270       MAT       1       1       79       -17       62       -25       3A       DR       3A         25       SU76102270       MAT       1       1       94       -2       64       -23       3A       DR       3A         27       SU76302270       MAT       1       1       82       -14       65       -22       3A       DR       3A         28       SU7602270       MAT       1       1       88       -14       65       -22       3A       DR       3A         30       SU7602270       MAT       1       1       88       -8       74       -13       3A       TX <td< td=""><td>22</td><td>SU75802268</td><td>MZE</td><td>•</td><td></td><td></td><td></td><td>1</td><td>1</td><td>58</td><td>-38</td><td>62</td><td>-25</td><td>3B</td><td></td><td></td><td></td><td>DR</td><td>3A</td><td>165 HARD/DRY</td></td<>	22	SU75802268	MZE	•				1	1	58	-38	62	-25	3B				DR	3A	165 HARD/DRY
24       SU75982268       PGR       1       1       73       -23       56       -31       38       TX       38       SEE 2P         24A       SU75982268       PGR       1       1       72       -24       55       -32       38       TX       38       SEE 2P         25       SU76102270       0AT       1       1       72       -24       55       -32       3A       TX       38       SEE 2P         26       SU76102270       0AT       1       1       79       -17       62       -25       3A       DR       3A         27       SU76322270       0AT       1       1       82       -14       65       -22       3A       DR       3A         28       SU7602270       0AT       1       1       81       -15       65       -22       3A       DR       3A         30       SU7602270       0AT       1       1       82       -14       65       -22       3A       DR       3A         31       SU7602270       0AT       1       1       88       -8       74       -13       3A       TX       38       SEE 2P <td>23</td> <td>SU75902270</td> <td>MZE</td> <td></td> <td></td> <td>35</td> <td>65</td> <td>3</td> <td>3A</td> <td>105</td> <td>9</td> <td>89</td> <td>-2</td> <td>2</td> <td></td> <td></td> <td></td> <td>WE</td> <td>3A</td> <td>ORGANIC T/S</td>	23	SU75902270	MZE			35	65	3	3A	105	9	89	-2	2				WE	3A	ORGANIC T/S
24A       SU75062270       DR       1       1       72       -24       55       -32       3B       TX       3B       SEE 2P         25       SU76102270       DAT       1       1       79       -17       62       -25       3A       TX       3B       SEE 2P         26       SU76202270       DAT       1       1       79       -17       62       -25       3A       DR       3A         27       SU76402270       DAT       1       1       82       -14       65       -22       3A       DR       3A         29       SU76402270       DAT       1       1       10       34       92       5       2       DR       3A         30       SU76402270       DAT       1       1       81       -15       65       -22       3A       DR       3A         30       SU7602270       DAT       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU7502260       PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 1	24	SU75982268	PGR					1	1	73	-23	56	-31	3B				ТХ	3B	SEE 2P
25       SU76102270 0AT       1       1       79       -17       62       -25       3A       TX       3B       SEE 2P         26       SU76102270 0AT       1       1       94       -2       64       -23       3A       DR       3A         27       SU76322270 0AT       1       1       82       -14       65       -22       3A       DR       3A         28       SU7602270 0AT       1       1       130       34       92       5       2       DR       3A         30       SU7602270 0AT       1       1       82       -14       65       -22       3A       DR       3A         31       SU7602270 0AT       1       1       82       -14       65       -22       3A       DR       3A         32       SU75702260 PGR       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU7502260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         34       SU7502260 PGR       1       1       14       7	244	SU76062270	PGR					1	1	72	-24	55	-32	3B				ТХ	3B	SEE 2P
26       SU76202270 0AT       1       1       94       -2       64       -23       3A       DR       3A         27       SU76322270 0AT       1       1       82       -14       65       -22       3A       DR       3A         28       SU76402270 0AT       1       1       130       34       92       5       2       DR       3A         29       SU76502270 0AT       1       1       81       -15       65       -22       3A       DR       3A         30       SU76602270 0AT       1       1       81       -15       65       -22       3A       DR       3A         31       SU76702270 0AT       1       1       94       -2       63       -24       3A       DR       3A         32       SU75702260 PGR       1       1       98       -8       74       -13       3A       TX       3B       SEE 2P         33       SU7502260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         34       SU7502260 PGR       1       1       1       145       -16	25	SU76102270	OAT					1	1	79	-17	62	-25	3A				тх	3B	SEE 2P
26       SU76202270 OAT       1       1       94       -2       64       -23       3A       DR       3A         27       SU76322270 OAT       1       1       182       -14       65       -22       3A       DR       3A         28       SU76402270 OAT       1       1       130       34       92       5       2       DR       2       SEE 3P         29       SU76502270 OAT       1       1       181       -15       65       -22       3A       DR       3A         30       SU7602270 OAT       1       1       181       -15       65       -22       3A       DR       3A         31       SU76702270 OAT       1       1       194       -2       63       -24       3A       DR       3A         32       SU75702260 PGR       1       1       188       -8       74       -13       3A       TX       3B       SEE 2P         33       SU7502260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         34       SU7502260 PGR       110       1       178		,	-																	
27       SU76322270 OAT       1       1       82       -14       65       -22       3A       DR       3A         28       SU76402270 OAT       1       1       130       34       92       5       2       DR       2       SEE 3P         29       SU76502270 OAT       1       1       1       81       -15       65       -22       3A       DR       3A         30       SU7602270 OAT       1       1       82       -14       65       -22       3A       DR       3A         31       SU7602270 OAT       1       1       94       -2       63       -24       3A       DR       3A         32       SU7502260 PGR       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU7502260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         34       SU7502260 PGR       11       1       142       46       88       1       2       DR       2       SEE 3P ALSO TX         35       SU7602260 PGR       110	26	SU76202270	OAT					1	1	94	-2	64	-23	3A				DR	3A	
28       SU76402270 OAT       1       1       130       34       92       5       2       DR       2       SEE 3P         29       SU76502270 OAT       1       1       1       81       -15       65       -22       3A       DR       3A         31       SU76602270 OAT       1       1       1       82       -14       65       -22       3A       DR       3A         31       SU76702270 OAT       1       1       94       -2       63       -24       3A       DR       3A         32       SU75702260 PGR       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU75802260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IPO 0RG T/S         34       SU75002260 PGR       10       1       1       92       -4       57       -30       3A       TX       3B       IMP 100 SEE 2P         35       SU76002260 PGR       110       1       1       142       46       88       1       2       OR       2       SEE 3P ALSO TX	27	SU76322270	OAT					1	1	82	-14	65	-22	3A				DR	3A	
29       SU76502270 0AT       1       1       81       -15       65       -22       3A       DR       3A         30       SU76602270 0AT       1       1       81       -15       65       -22       3A       DR       3A         31       SU76602270 0AT       1       1       1       94       -2       63       -24       3A       DR       3A         32       SU75702260 PGR       1       1       94       -2       63       -24       3A       DR       3A         33       SU75702260 PGR       1       1       94       -2       63       -24       3A       DR       3A         34       SU75702260 PGR       1       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU7502260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         35       SU76102260 PGR       110       1       1       142       46       88       1       2       OR       2       SEE 3P ALSO TX         37       SU7602260 OAT	28	SU76402270	OAT					1	1	130	34	92	5	2				DR	2	SEE 3P
30       SU76602270 OAT       1       1       82       -14       65       -22       3A       DR       3A         31       SU76702270 OAT       1       1       94       -2       63       -24       3A       DR       3A         32       SU75702260 PGR       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU75802260 PGR       1       1       58       -38       61       -26       3B       TX       3B       SEE 2P         34       SU75802260 PGR       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         35       SU76002260 PGR       1       1       1       92       -4       57       -30       3A       TX       3B       SEE 2P         36       SU76102260 PGR       110       1       1       142       46       88       1       2       DR       2       SEE 3P ALSO TX         37       SU7602260 OAT       1       1       1       78       -18       61       -26       3A       DR       3A         38	29	SU76502270	OAT					1	1	81	-15	65	-22	3A				DR	3A	
31       SU76702270 OAT       1       1       94       -2       63       -24       3A       DR       3A         32       SU75702260 PGR       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU75802260 PGR       1       1       58       -38       61       -26       3B       TX       3B       SEE 2P         34       SU75902260 PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         35       SU76002260 PGR       1       1       92       -4       57       -30       3A       TX       3B       SEE 2P         36       SU76102260 PGR       110       1       1       142       46       88       1       2       DR       2       SEE 3P ALSO TX         37       SU76202260 OAT       1       1       142       46       88       1       2       DR       2       SEE 3P ALSO TX         38       SU76102260 OAT       1       1       188       -8       71       -16       3A       DR       3A         3	30	SU76602270	OAT					1	1	82	-14	65	-22	3A				DR	3A	
31       SU76702270 0AT       1       1       94       -2       63       -24       3A         32       SU75702260 PGR       1       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU75802260 PGR       1       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU75802260 PGR       1       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         34       SU76102260 PGR       10       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         35       SU76102260 PGR       110       1       1       46       88       1       2       OR       2       SEE 3P ALSO TX         37       SU76202260 OAT       1       1       18       61       -26       3A       DR       3A         38       SU76102260 OAT       1       1       18       61       -26       3A       DR       3A         39       SU76402260 OAT       90	•-																			
32       SU75702260       PGR       1       1       88       -8       74       -13       3A       TX       3B       SEE 2P         33       SU75902260       PGR       1       1       58       -38       61       -26       3B       TX       3B       SEE 2P         34       SU75902260       PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         35       SU76102260       PGR       110       1       1       46       88       1       2       OR       2       SEE 3P ALSO TX         36       SU76102260       PGR       110       1       1       142       46       88       1       2       OR       2       SEE 3P ALSO TX         37       SU76102260       OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260       OAT       1       1       88       -8       71       -16       3A       DR       3A         39       SU76402260       OAT       45       1       1       138       42	31	SU76702270	OAT					1	1	94	-2	63	-24	3A				DR	3A	
33       SU75802260       PGR       1       1       58       -38       61       -26       3B       TX       3B       I70       ORG       T/S         34       SU75902260       PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100       SEE 2P         35       SU76102260       PGR       10       1       1       42       46       88       1       2       OR       2       SEE 3P       ALSO TX         36       SU76102260       PGR       110       1       1       142       46       88       1       2       OR       2       SEE 3P       ALSO TX         37       SU76202260       OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260       OAT       1       1       188       -8       71       -16       3A       DR       3A         39       SU76402260       OAT       90       1       1       127       31       81       -6       2       DR       2       SEE 3P       ALSO TX         40	32	SU75702260	PGR					1	1	88	-8	74	-13	3A				тх	38	SEE 2P
34       SU75902260       PGR       55       1       1       66       -30       58       -29       3B       TX       3B       IMP 100 SEE 2P         35       SU76002260       PGR       1       1       92       -4       57       -30       3A       TX       3B       IMP 100 SEE 2P         36       SU76102260       PGR       110       1       1       142       46       88       1       2       OR       2       SEE 3P       ALSO TX         37       SU76202260       OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260       OAT       1       1       78       -18       61       -26       3A       DR       3A         39       SU76402260       OAT       1       1       127       31       81       -6       2       DR       2       SEE 3P       ALSO TX         40       SU76502260       OAT       45       1       1       138       42       100       13       1       TX       2       SEE 3P         41       SU76602260       OAT       1       1	33	SU75802260	PGR					1	1	58	-38	61	-26	3B	,			тх	38	170 ORG T/S
35       SU76002260 PGR       1       1       92       -4       57       -30       3A       TX       3B       SEE 2P         36       SU76102260 PGR       110       1       1       142       46       88       1       2       DR       2       SEE 3P ALSO TX         37       SU76202260 OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260 OAT       1       1       188       -8       71       -16       3A       DR       3A         39       SU76402260 OAT       90       1       1       127       31       81       -6       2       DR       2       SEE 3P ALSO TX         40       SU76502260 OAT       90       1       1       127       31       81       -6       2       DR       2       SEE 3P ALSO TX         40       SU76502260 OAT       45       1       1       138       42       100       13       1       TX       2       SEE 3P         41       SU76602260 OAT       1       1       96       0       78       -9       3A       DR       3A	34	SU75902260	PGR			55		1	1	66	-30	58	-29	3B				ТХ	3B	IMP 100 SEE 2P
36       SU76102260       PGR       110       1       1       142       46       88       1       2       DR       2       SEE       3P       ALSO TX         37       SU76202260       OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260       OAT       1       1       88       -8       71       -16       3A       DR       3A         39       SU76402260       OAT       90       1       1       127       31       81       -6       2       DR       2       SEE       3P       ALSO TX         40       SU76502260       OAT       45       1       1       138       42       100       13       1       TX       2       SEE       3P         41       SU76602260       OAT       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260       OAT       1       1       88       -8       71       -16       3A       DR       3A	35	SU76002260	PGR					1	1	92	-4	57	-30	3A				тх	38	SEE 2P
36       SU76102260       PGR       110       1       1       142       46       88       1       2       DR       2       SEE       3P       ALSO TX         37       SU76202260       OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260       OAT       1       1       88       -8       71       -16       3A       DR       3A         39       SU76402260       OAT       90       1       1       127       31       81       -6       2       DR       2       SEE       3P       ALSO TX         40       SU76502260       OAT       45       1       1       127       31       81       -6       2       DR       2       SEE       3P       ALSO TX         40       SU76502260       OAT       45       1       1       138       42       100       13       1       TX       2       SEE       3P         41       SU76602260       OAT       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260																				
37       SU76202260 OAT       1       1       78       -18       61       -26       3A       DR       3A         38       SU76312260 OAT       1       1       188       -8       71       -16       3A       DR       3A         39       SU76402260 OAT       90       1       1       127       31       81       -6       2       DR       2       SEE       3P       ALSO TX         40       SU76502260 OAT       45       1       1       138       42       100       13       1       TX       2       SEE       3P         41       SU76602260 OAT       1       1       96       0       78       -9       3A       A         42       SU76702260 OAT       1       1       88       -8       71       -16       3A       DR       3A	36	SU76102260	PGR			110		1	1	142	46	88	1	2				DR	2	SEE 3P ALSO TX
38       SU76312260 OAT       1       1       1       88       -8       71       -16       3A         39       SU76402260 OAT       90       1       1       127       31       81       -6       2       DR       2       SEE 3P ALSO TX         40       SU76502260 OAT       45       1       1       138       42       100       13       1       TX       2       SEE 3P       SEE 3P         41       SU76602260 OAT       45       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260 OAT       1       1       88       -8       71       -16       3A       DR       3A	37	SU76202260	OAT					1	1	78	-18	61	-26	3A				DR	ЗA	
39       SU76402260 OAT       90       1       1       127       31       81       -6       2       DR       2       SEE 3P ALSO TX         40       SU76502260 OAT       45       1       1       138       42       100       13       1       TX       2       SEE 3P ALSO TX         41       SU76602260 OAT       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260 OAT       1       1       88       -8       71       -16       3A       DR       3A	38	SU76312260	OAT					1	1	88	-8	71	-16	ЗA				DR	ЗA	
40       SU76502260       OAT       45       1       1       138       42       100       13       1       TX       2       SEE       3P         41       SU76602260       OAT       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260       OAT       1       1       88       -8       71       -16       3A       DR       3A	39	SU76402260	OAT			90		1	1	127	31	81	-6	2				DR	2	SEE 3P ALSO TX
41       SU76602260 QAT       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260 QAT       1       1       88       -8       71       -16       3A       DR       3A	40	SU76502260	OAT			45		1	1	138	42	100	13	1				тх	2	SEE 3P
41       SU76602260       DAT       1       1       96       0       78       -9       3A       DR       3A         42       SU76702260       DAT       1       1       88       -8       71       -16       3A       DR       3A			-			-														
42 SU76702260 DAT 1 1 88 -8 71 -16 3A DR 3A	41	SU76602260	OAT					1	1	96	0	78	-9	3A				DR	3A	
	42	SU76702260	OAT					1	1	88	-8	71	-16	3A				DR	3A	

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#### LIST OF BORINGS HEADERS 24/08/98 HEATH FARM, PETERSFIELD

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SAMP	LE	ASPECT			WETM	NESS	-WH8	EAT-	-P0	TS-	M. I	REL	EROSN	FROST	CHEM	ALC	
NO.	GRID REF	USE	GRDNT G	LEY SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D	EX	P DIST	LIMIT		COMMENTS
43	SU75702251	PGR			1	1	72	-24	55	-32	3B				тх	38	SEE 2P
1P	SU76602300	PGR			1	1	78	-18	61	-26	3A				тх	3B	SAND TOPSOIL
2P	SU76062270	LEY			1	1	73	-23	56	-31	3B				ТХ	3B	SAND TOPSOIL
3P	SU76402260	OAT		90	1	1	125	29	80	-7	2				DR	2	ALSO TX

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SAMPLE

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a: ALC011			COMPLETE LIST OF PROFILES 24/08/98 HEATH FARM, PETERSFIELD										page 1	
DEPTH	TEXTURE	COLOUR	h COL	AOTTLE ABUN	S CONT	PED COL.	GLEY	S		:S <mark>-</mark> ST н тот со	RUCT/ S	SUBS STR POR	IMP SPL CALC	
0-32	MS	10YR21						0	0	0				BORDERLINE LMS
32-95	MS	10YR62						0	0	0		M		
95-120	С	05YR71				• .		0	0	0		м		,
0-30	MS	10YR31						0	0	0				BORDERLINE LMS
30-58	MS	10YR51	10YR66	5 C			Ŷ	0	0	0		м		
58-100	С	10YR66						0	0	0		м	Y	
0-30	MS	10YR21						0	0	0				BORDERLINE LMS
30-90	MS	10YR62						0	0	0		Ň		
90-120	LMS	10YR32						0	0	0		G		
0-40	MS	10YR21						0	0	0				BORDERLINE LMS
40-100	MS	10YR42						0	0	0		м		
100-120	MS	10YR32						0	0	0		м		
0-40	мс	107821						٥	n					
40-100	MS	107871						n n	n	ň		м		DORDERCINE DIO
100-120	MS	10YR32						ō	0	0		M		•
0.05		100000						•	•	<u>,</u>				
0-35	MS MS	10YRZ1						U	0	0		м		BURDERLINE LMS
35-90	MS	104862						0	0	0		M		
90-120	5	101803						U	U	U		G		
0-20	MS	10YR2131						0	0	0				BORDERLINE LMS
20-120	MS	10YR7172						0	0	0		м		
0-35	MS	10YR31						0	0	0				BORDERLINE LMS
35-70	MS	10YR6371						0	0	0		м		
70-120	MS	10YR3171						0	0	0		м		WET
0-30	IMS	10YR32						0	٥	0				0 DISTURBED
30-65	IMS	10YR3334						ñ	0	. <b>0</b>		G		2 020 00000
65-110	MS	10YR5363	10785	5 (	2		Y	0	0	ů O		M		
110-120	SCL	25Y 63	10784	- · ·			ý	n 0	D	0 0		м		
110-120	JUL	201 00	10184	550 E	,		1	U	0	U		ri -		

11 0-28 MS 28-120 MS

80-120 MS

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10YR21

10YR34

10YR7172

12 0-30 LMS 10YR21 0 0 0 **Q DISTURBED** 30-60 HCL 25Y 53 10YR4658 M D Y 0 0 0 М 60-95 С 25Y 5253 10YR5868 M D Y 0 0 0 Ρ Y PLASTIC 95-120 MS 10YR53 10YR58 M D Y 0 0 0 М 13 0-28 MS 10YR21 0 0 0 28-120 MS 10YR72 0 0 0 Μ 14 0-36 LMS 10YR31 0 0 0 36-80 MS 10YR41 0 0 0 М

0 0

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COMPLETE LIST OF PROFILES 24/08/98 HEATH FARM, PETERSFIELD

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•				MOTT			DED		6-	ONES	STOLICT /	20102	
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABL	LES IN	CONT	COL.	GLEY	>2 >6	LITH	TOT CONSIST	SUBS	
15	0-34	LMS	10YR31			•			0	0	0		
	34-60	LMS	10YR52						0	0	0	G	
	60-120	MS	75YR52						0	0	0	M	
16	0-38	LMS	10YR32						0	0	0		
	38-120	MS	10YR52						0	0	0	м	
17	0-28	IMS	100032						0	0	٥		
	28_50		107042						Ő	ñ	0	G	THE CRAVELLY
	20-30	0.0	101842						Ŭ	°.	U	G	
18	0-37	LMS	10YR32						0	0	0		
	37-95	MSL	10YR3242	75YR4658	М	D		,Y	0	0	0	M	
	95–120	SCL	10YR53	75YR4658	М	D		Y	0	0	0	M	
10	0_33	IMS	100832						0	0	0		
13	22 AE		101632						0	0	0	Ċ.	
	AE 120	LPIS MC	101042						0	0	Õ	M	
	45-120	1.12	10183202						U	0	U	17	
20	0-30	LMS	10YR32						0	0	0		
•	30-45	LMS	10YR32						0	0	0	G	
	45-120	MS	10YR5152						0	0	0	M	
01	0.00		10/20						•	•	0		
21	0-30	MSL	10432						0	0	-0 -	•	
	30-70	LMS	10184243	1000040	~	•			0	0	0	G	
	/0-85	LMS	10485354	TUYR45	C C	U		Y	0	0	0	M .	SEE JP H3
	85-100	MSL	10485352	10484656	C C	D		Y	0	0	0	M	
	100-120	HUL	IUYKSZ	10184030	C	U		Ť	U	U	U	m	
22	0-28	LMS	10YR32						0	0	0		
	28-60	MS	10YR7253						0	0	0	М	
	60–65	MSL.	10YR4654						0	0	0	М	IMP 65 HARD/DRY
23	0_25	IMS	10VP21						n	U HB	1		
20	25-35	MS 2M	10705272						ň	0 HR	2	м	BI FACHED SAND
	35-45	MCI	10783231	107858	С	n		ż	ň		5	M	
	45-65	SCI	257 5262	107858	м	n		, v	ñ	0	0	M	
	45-00 65-90	002	25V 7172	10VR5868	м	n		, v	Ő	ů 0	0	P Y	PLASTIC
	90-120	MS	10YR5254	101110000				•	ō	0	0	M	
24	0-27	MS	10YR21						0	0	0		
	27-120	MS	25Y 6144						0	0	0	м	
24A	0-25	MS	10YR21						0	0	0		
	25-120	MS	10YR61						Û	0	0	м	
									-				
25	0-36	MS	10YR21						0	0	0		
	36-120	MS	10YR53						0	0	0	м	

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COMPLETE LIST OF PROFILES 24/08/98 HEATH FARM, PETERSFIELD

				M	OTTLES	5	PED	-	\$1	FONES	STRUCT/	SUBS	
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY >	-2 >6	LITH T	OT CONSIST	STR POR IMP SPL CALC	
											_		
26	0-34	LMS	10YR31						0	0	0		
	34-80	MS	10YR52						0	0	0	М	
	80-120	LMS	10YR56						0	0	0	G	
27	0-35	LMS	10YR53						0	0	0		
	35-120	MS	10YR54						0	0	0	M	
28	0-35	MSI	107853						n	0	'n		BORDERI INE LMS
20	35-95		107244						ñ	0 HR	3	6	
	05-120	50	107054						ň	0	0	м	
	33-120	JUL .	101834						v	v	0	n	
29	0-35	LMS	10YR53						0	0	0		
	35-120	MS	10YR44						0	0 HR	3	М	
30	0-35	LMS	10YR53						0	0	0		
	35-120	MS	10VR64						ō	0	0	м	
	00 120	1.0	i o i no i						-	•	•		
31	0-32	LMS	10YR53						0	0	0		
	32-96	MS	10YR63						0	0	0	м	
	96-120	MCL	10YR46						0	0	0	м	
									•	•	•		
32	0-27	MS	10YR21						0	U	0		BORDERLINE LMS
	27-45	MS	10YR21						0	0	0 ·	M	
	45-60	MSL	10YR3631						0	0	0	G	
	60-120	MS	10YR3272						0	0	0	M	
33	0-30	LMS	10YR32						0	0	0		
	30-70	MS	10YR7153						0	0	0	м	
24	0.25	мс	100032						n	0	·0		
34	0-25 25 55	NC MC	101832						0	0	0	м	CORDERCTINE CIN
	23-33 EE 0E	1 MC	10/02171	10704	: r	D		v	0	0	0	M	WET 65 855 30 M3
	05-00		10162171	101840		U		T	0	0	0	M	THE E DAN /DOV
	85-100	ris	10185364						U	U	U	M	IMP FE PANJUKT
35	0-28	MS	10YR32						0	0	0	•	BORDERLINE LMS
	28-50	MS	10YR3252						0	0	0	м	
	50-65	MS	10YR3343						0	0	0	М	
	65-100	MS	10YR5664						0	0	0	М	
	100-120	MSL.	10YR5664						0	0	0	G	
26	0.25	LMC	10/022						0	0	0		
30	0-35		101832					•	0	0	0	м	DORDERLINE PIS
	35-50	ri) MCI	10164202						~	0	0	n C	
	50-110	MOL	10185354	10		•			U A	U A	U	ы М	
	110-120	MCL	TUYR53	IUYR5	58 C	U		Ŷ	U	U	U	m	
37	0-30	LMS	10YR21						0	0	0		
	30-120	MS	10YR42						0	0	0	м	

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COMPLETE LIST OF PROFILES 24/08/98 HEATH FARM, PETERSFIELD

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				MOT	TLES	5	PED		S	TONE	S	STRUCT/	SUBS	
SAMPLE	DEPTH	TEXTURE	COLOUR	COL AB	UN	CONT	COL.	GLEY	>2 >6	LIT	гн тот	CONSIST	STR POR IMP SPL CALC	
38	0-35	LMS	10YR3242						0	0	I	0 <sup>.</sup>		BORDERLINE MSL
	35-50	LMS	10YR53						0	0	I	0	G	
	50-120	MS	10YR5464						0	0	I	0	м	
39	0-25	LMS	10YR42						0	0		0		
	25-60	LMS	10YR4344						0	0		0	G	
	60-90	MSL	10YR5464						0	0		0	м	
	90-120	SCL	25Y 7273	10YR56	С	D		Y	0	0		0	- M	
40	0-28	LMS	10YR42						0	0		0		BORDERLINE MSL
	28-45	MSL	10YR4353						0	0		0	м	
•	45-65	MSL	10YR53	10YR56	С	F		Y	0	0		0	М	
	65-120	HCL.	25Y 6373	10YR5658	С	D		Y	0	0 1	HR	5	м	SEE 3P
41	0-35	LMS	10YR53						0	0		0		
	35-80	LMS	10YR44						0	01	HR	5	G	
	80-120	MS	10YR4446						0	0		0	м	
42	0-35	LMS	10YR53						0	0		0		
	35-50	LMS	10YR44						0	0		0	G	
	50-120	MS	10YR64						0	0		0	м	
43	0-25	MS	10YR32						0	0		0		BORDERLINE LMS
	25-120	MS	10YR7161						0	0		0	м	
1P	0-34	MS	10YR21						0	0		0		VARIABLE DEPTH
	34-82	MS	10YR71	10YR58	F	D			0	0		0 WKMSB	VF M	
	82-107	MS	10YR71						0	0		o wkmsb	VF M	
	107-120	MS	10YR31						0	0		0 WKCPL	FR M	
2P	0-27	MS	10YR21						0	0		0		
	27-120	MS	10YR72						0	0	•	o wkmsb	VF M	
3P	0-26	LMS	10YR32						0	0		0		
	26-60	LMS	10YR43						0	0	HR	3 MDCAB	FRG	PLOUGH PAN
	60-90	MSL	25Y 5253	10YR4658	3 F	D			0	0	HR	5 MDCSAE	3 FR M	LMS IN PLACES
	90-120	HCL	25Y 63	10YR5656	3 C	F		Y	0	0		0 MDCSAE	B FR M	MIXED S + C

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