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Maidstone Borough Local Plan Site 66 Land at Sandway, Kent Agricultural Land Classification, ALC Map and Report May 1995

# AGRICULTURAL LAND CLASSIFICATION, REPORT

# MAIDSTONE BOROUGH LOCAL PLAN SITE 66 LAND AT SANDWAY

#### 1 Summary

- ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in the Maidstone Borough of Kent. The work forms part of MAFF's statutory input to the preparation of the Maidstone Borough Local Plan.
- The site comprises 12 8 hectares of land to the south of Sandway near Lenham in Kent An Agricultural Land Classification (ALC) survey was carried out during April 1995. The survey was undertaken at a detailed level of approximately one boring per hectare of agricultural land surveyed. A total of 13 borings and three soil inspection pits were described according to 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 a long term limitation on its use for agriculture.
- The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS
- At the time of the survey the majority of the site had recently been ploughed and drilled with a cereal crop. The remaining areas to the centre and north of the site were under permanent grass. Non agricultural land includes a widened roadside verge an overgrown track an area of scrub covering a steep slope between the arable and grassland areas and two areas used for farm waste storage including animal and building waste. The Urban areas shown are domestic dwellings and associated gardens. The Agricultural Buildings shown include barns cattle housing and stables.
- The distribution of grades and subgrades is shown on the attached ALC map and the areas and extent are given in the table below. The map has been drawn at a scale of 1 10 000. It is accurate at this scale but any enlargement would be misleading.

Table 1 Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site
2	11 2	87 5
Non Agricultural	0 6	4 7
Urban	0 7	5 5
Agricultural Buildings	<u>0 3</u>	<u>23</u>
Total area of site	1 <u>2.8</u> ha	100.0

- Appendix I gives a general description of the grades subgrades and land use categories identified in the survey. 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.
- The agricultural land at this site has been classified as Grade 2 (very good quality)
  The land has been graded on the basis of slight soil wetness and soil droughtiness
  limitations. The majority of the site was influenced by soil wetness due to slightly
  impeded drainage caused by a slowly permeable horizon occurring within 80cm
  depth. The remaining area concentrated on the land of highest altitude is
  influenced by soil droughtiness due to the occurrence of freely draining sandy soils.

# 2 Climate

- 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
- 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
- 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.
- The site is believed to be rather frost prone (Met Office 1971) This is due to the location of the site in an area of cold air drainage and from which further air movement is poor. The site is not thought to be exposed. However, climatic and soil factors interact to influence soil wetness and droughtiness limitations to a greater extent.

Table 2 Climatic Interpolation

Grid Reference	TQ885508	TQ885510
Altitude (m AOD)	110	115
Accumulated Temperature	1381	1375
(day degrees C Jan -June)		
Average Annual Rainfall (mm)	737	740
Field Capacity Days	153	154
Moisture deficit wheat (mm)	108	107
Moisture deficit potatoes (mm)	100	99
Overall Climatic Grade	1	1

# 3 Relief

The site lies between approximately 110 and 115m AOD Overall the site slopes from a peak in the north gently to the west south and east. Nowhere on the site does the gradient of these slopes influence land quality

# 4 Geology and Soils

- The published geological information (BGS 1976) shows the majority of the site to be underlain by Cretaceous Folkestone Beds. A small area to the south of the site is shown as Cretaceous Sandgate Beds.
- The most recent published soils information (SSEW 1983) shows the site to be 42 underlain by soils of the Fyfield 2 and Malling Associations The legend accompanying the map describes Fyfield 2 soils as well drained coarse loamy and sandy soils over sands and sandstones Some very acid sandy soils with bleached subsurface horizons on heaths and in woodlands Risk of water erosion (SSEW 1983) Malling soils are described as well drained non calcareous fine loamy soils over limestone at depth. Some well drained coarse loamy and similar fine loamy over clayey soils Some fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging Occasional shallower calcareous soils over limestone Landslips and associated irregular terrain locally (SSEW 1983) encountered at this site were of this broad type except that none were found to be over limestone There was also little likelihood of water erosion as the slopes were gradual

# 5 Agricultural Land Classification

- Paragraph 1 5 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached ALC map
- The location of the soil observation points are shown on the attached sample point map

#### Grade 2

53 Land of very good quality has been mapped for the whole of the agricultural area of this site Limitations include both soil wetness and soil droughtiness wetness is significant on the land of lowest altitude towards the west south and east of the site. In these areas the soils commonly comprise a very slightly stony (up to 3% v/v total flints) medium clay loam topsoil These pass to a commonly gleyed similarly stony permeable medium clay loam or occasionally a sandy clay loam upper subsoil This commonly overlies a similarly textured gleved permeable horizon passing to a moderately structured slowly permeable heavy clay loam lower subsoil to depth Occasionally the slowly permeable horizon gives way to a permeable medium sandy loam horizon from around 100cm. The pit observation Pit 1 (see Appendix III) is typical of this soil type. The slowly permeable horizon leads to a slight drainage impedance. In the local climate this leads to Wetness Class II being applied and subsequent Grade 2 when the workability status of the medium textured topsoils is taken into account wetness affects plant growth and yield and leads to a reduction in the number of days when cultivations and/or grazing may occur without causing structural damage to the soil Occasional observations were of a slightly worse quality but were of insufficient distribution to map as a separate unit

The area of the site limited by soil droughtiness is located on the sloping land and that of higher altitude towards the north of the site. The two soil pits (Pits 2 and 3) show the variation that exists in this area. Pit 3 is actually classified as Grade 1 and the majority of the observations relate to this pit (the frost prone nature of this site however precludes the inclusion of Grade 1 land at this site). However, Pit 2 is classified as Subgrade 3a and represents the sandier soil profiles with loamy sand and sand subsoils occurring higher up the profile than in the Pit 3 soils, which have medium loam upper horizons. Given the degree of variation within the site, all this land has been conservatively placed in a Grade 2 mapping unit, other grades could not be differentiated at this scale of survey. In the prevailing local climate, the free draining coarse nature of the majority of these soils leads to a minor reduction in profile available water. Therefore, there is a slight risk of soil droughtiness affecting plant growth and yield.

ADAS Ref 2007/098/95 MAFF Ref EL20/862 Resource Planning Team Guildford Statutory Group ADAS Reading

#### **SOURCES OF REFERENCE**

British Geological Survey (1976) Sheet 288 Maidstone Solid & Drift Edition 1 50 000

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

Meteorological Office (1971) Unpublished Climate data relating to Sheet 173 1 63 360

Meteorological Office (1989) Climatic datasets for Agricultural Land Classification

Soil Survey of England and Wales (1980) Bulletin No 9 Soils of Kent

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) Bulletin No 15 Soils and their use in South-East England

#### 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 nineral 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

## 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>										
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years 2										
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										
m	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>&</sup>lt;sup>1</sup>The number of days specified is not necessarily a continuous period

<sup>&</sup>lt;sup>2</sup> In most years is defined as more than 10 out of 20 years

# APPENDIX III

# SOIL 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 Pasture	eLEY	Ley Grass	RGR	Rough Grazing
SCR	Scrub	CFW	Consferous Woodland	<b>DCW</b>	Deciduous Wood
HTH	Heathland	BOG	Bog or Marsh	FLW	Fallow
PLO	Ploughed	SAS	Set aside	HTO	Other
HRT	Horticultural Crop	os			

- 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
- If any of the following factors are considered significant 'Y' will be entered in the relevant column

MREL	Microrelief limitation	FLOOD	Flood risk	<b>EROSN</b>	Soil erosion risk
EXP	Exposure limitation	FROST	Frost prone	DIST	Disturbed land
<b>CHEM</b>	Chemical limitation				

9 LIMIT The main limitation to land quality The following abbreviations are used

$\mathbf{oc}$	Overall Climate	$\mathbf{AE}$	Aspect	EX	Exposure
FR	Frost Risk	GR	Gradient	MR	Microrelief
FL	Flood Risk	TX	Topsoil Texture	DP	Soil Depth
СН	Chemical	WE	Wetness	WK	Workability
DR	Drought	ER	Erosion Risk	WD	Soil Wetness/Droughtiness
ST	Topsoil Stonine	SS			•

# Soil Pits and Auger Borings

1 TEXTURE soil texture classes are denoted by the following abbreviations

S	Sand	LS	Loamy Sand	SL	Sandy Loam
SZL	Sandy Silt Loam	$\mathbf{CL}$	Clay Loam	<b>LCL</b>	Silty Clay Loam
ZL	Silt Loam	SCL	Sandy Clay Loam	C	Clay
SC	Sandy Clay	ZC	Silty Clay	OL	Organic Loam
P	Peat	SP	Sandy Peat	LP	Loamy Peat
PL	Peaty Loam	PS	Peaty Sand	MZ	Marine Light Silts

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

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

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

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

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

- 4 **MOTTLE CONT** Mottle contrast
  - F faint indistinct mottles evident only on close inspection
  - D distinct mottles are readily seen
  - P prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour using Munsell notation
- 6 GLEY If the soil horizon is gleyed a Y will appear in this column. If slightly gleyed an S will appear
- 7 STONE LITH Stone Lithology One of the following is used

HR all hard rocks and stones SLST soft collid or dolimitic limestone
CH chalk FSST soft fine grained sandstone
ZR soft argillaceous or silty rocks GH gravel with non porous (hard) stones
MSST soft medium grained sandstone GS gravel with porous (soft) stones

SI soft weathered igneous/metamorphic rock

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

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

degree of development WK weakly developed MD moderately developed

ST strongly developed

ped size F fine M medium

C coarse VC very coarse

ped shape S single grain M massive

GR granular AB angular blocky

SAB sub angular blocky PR prismatic

PL platy

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

L loose VF very friable FR friable FM firm VM very firm

EM extremely firm EH extremely hard

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

- 11 POR Soil porosity If a soil horizon has less than 0.5% biopores >0.5 mm a 'Y will appear in this column
- 12 IMP If the profile is impenetrable to rooting a Y will appear in this column at the appropriate horizon
- 13 SPL Slowly permeable layer If the soil horizon is slowly permeable a 'Y will appear in this column
- 14 CALC If the soil horizon is calcareous a Y will appear in this column
- 15 Other notations

APW available water capacity (in mm) adjusted for wheat

APP available water capacity (in mm) adjusted for potatoes

MBW moisture balance wheat MBP moisture balance potatoes

#### SOIL PIT DESCRIPTION

Site Name MAIDSTONE LP SITE 66

Pit Number 1P

Grid Reference TQ88605080

Average Annual Rainfall

Accumulated Temperature

Field Capacity Level

Land Use Slope and Aspect 737 mm

1381 degree days

153 days P1oughed

degrees E

HORI	ZON	TEXTURE	COLOUR	STONES >2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	31	MCL	10YR42 00	0	3	HR					
31	53	MCL	10YR44 00	0	2	HR	F	MDCSAB	FR	М	
53	74	SCL	10YR53 00	0	3	HR	М	MDCSAB	FR	М	
74-	120	HCL	25Y 63 00	0	3	HR	M	WKCSAB	FR	М	

Wetness Grade

Wetness Class

11

Gleying SPL

53 cm 74 cm

Drought Grade

APW 152mm MBA APP

44 mm

114mm MBP

14 mm

FINAL ALC GRADE MAIN LIMITATION

ketness

SOIL PIT DESCRIPTION

Site Name MAIDSTONE LP SITE 66

Pit Number

2P

Grad Reference TQ88505090

Average Annual Rainfall

737 mm 1381 degree days

Accumulated Temperature Field Capacity Level

153 days

Land Use

Ploughed

Slope and Aspect

02 degrees S

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MSL	10YR42 00	0		3	HR					
28- 55	LMS	10YR44 00	0		0			MDCSAB	FR	G	
55- 70	LMS	75YR33 00	0		0			MDCAB	FR	G	
70- 90	MS	10YR44 00	0		0		С	WKMSAB	۷F	М	
90 120	MS	10YR66 00	0		0			S	L	М	

Wetness Grade

Wetness Class

Gleying

WYA

APP

cm

SPL cm

MBW 6 mm

Drought Grade

102mm 87 mm M8P

13 mm

FINAL ALC GRADE

MAIN LIMITATION

Droughtiness

#### SOIL PIT DESCRIPTION

Site Name MAIDSTONE LP SITE 66 Pit Number 3P

Grid Reference TQ88275100 Average Annual Rainfall 737 mm

Accumulated Temperature 1381 degree days

Field Capacity Level 153 days
Land Use Ploughed

Slope and Aspect degrees

HORIZ	ZON	TEXTURE	COLOUR	STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	30	MCL	10YR41 00	0		3	HR					
30	51	SCL	10YR42 43	0		3	HR	F	MDCSAB	FR	М	
51	83	MSL	10YR44 46	0		5	HR		WKCSAB	FR	G	
83	90	LMS	10YR44 46	0		5	HR		MDCSAB	FR	G	
90-	96	MS	75YR58 00	0		10	HR	M	MDCSAB	FM	М	
96-1	120	FS	25Y 83 00	0		0		С	WKMAB	VF	м	

 Wetness Grade
 1
 Wetness Class
 I

 Gleying
 96 cm

 SPL
 cm

 Drought Grade
 1
 APW 158mm MBW 50 mm

 APP 114mm MBP 14 mm

FINAL ALC GRADE 1 MAIN LIMITATION

# program ALC012 LIST OF BORINGS HEADERS 10/04/95 MAIDSTONE LP SITE 66

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page 1

_	SAMPI	.Ε	Α	SPECT				WET	NESS	WH	EAT-	PO	TS-	М	REL	EROSN	FROST	CHEM	ALC	
	NO	GRID REF	USE		GRDNT	GLEY	SPL	CLASS	GRADE	AP	МВ	AP	MB	DRT	FLOOD	EX	P DIST	LIMIT		COMMENTS
	1	TQ88375109	PGR	s		55		1	1	121	13	117	17	2					1	IMP 80 SEE 3P
	1P	TQ88605080	PLO	E		53	74	2	2	152	44	114	14	1				WE	2	PIT 90 AUG 120
	2	TQ88205097	RGR	S		25		2	2	139	31	113	13	1				WE	2	SEE 1P
	2P	TQ88505090	PLO	S	02			1	1	102	-6	87	-13	3A				DR	3A	PIT 120
1	3	TQ88275100	PLO	S		55		1	1	137	29	113	13	2				DR	2	IMP 100 SEE 3P
	3P	TQ88275100	PLO			96		1	1	158	50	114	14	1					1	PIT 120
_	4	TQ88405100	PLO	W	02	40	40	3	3A	160	52	116	16	1				WE	3A	SEE 1P
	5	TQ88505100	PGR	W		25		2	1	87	-21	92	~8	38				DR	2	IMP 70 SEE 3P
	6	TQ88605100	PGR	Ε	02			1	1	83	25	86	-14	38				DR	2	IMP 55 SEE 3P
_	7	TQ88705100	PLO			30		2	2	145	37	109	9	2				WD	2	SEE 1P
	8	TQ88305090	PLO	s		32		2	2	131	23	114	14	2				₩E	2	IMP 100 SEE 3P
•	9	TQ88405090	PLO	S	02	55	55	2	2	150	42	114	14	1				WE	2	SEE 1P
_	10	TQ88505090	PLO	S	02	55		1	1	111	3	87	-13	ЗА				DR	ЗА	SEE 2P
	11	TQ88605090	PLO	W	02	30	80	2	2	150	42	110	10	1				WE	2	SEE 1P
	12	TQ88505080	PLO	S	02	<b>5</b> 5		1	1	168	60	113	13	1					1	
	13	TQ88605080	PLO	W	02	30	80	2	2	152	44	112	12	1				WE	2	SEE 1P

SAMPLE	DEPTH	TEXTURE	COLOUR		MOTTLES ABUN	CONT	PED COL	GLE	- Y >2		TONES LITH		STRUCT/ CONSIST		SUBS STR I		IMP	SPL	CALC	
<b>2</b> 1	0-25	scl	10YR42 00						0	0	HR	3								
	25-55	msl	10YR54 00						0			0			G					
_	55 80	msl	10YR63 00	10YR66	5 00 C			Y			HR	5			G					IMP 80-IRONPAN
1P	0 31	mcl	10YR42 00						0	0	HR	3								
• "	31 53	mcl	10YR44 00	100056	4 NO E				0		HR		MDCSAB I	ED	м					
	53 74	scl	10YR53 00					Υ			HR									
	74 120	hel	25Y 63 00					Y			HR	3	WKCSAB (			Υ		Υ		
•	0.25	- 1	10/040 00						^	^		-								
2	0 25	mc1	10YR42 00	10005	- 00 0			L,	0		HR	3								
i	25 40	mc1	10YR53 00					Y		0		0			M					
•	40 70 70-120	scl lms	10YR53 00 25Y 63 00					Y		0		0			M G					
												•								
2P	0 28	msl	10YR42 00						0	0	HR	3								
-	28 55	lms	10YR44 00						0	0		0	MDCSAB I	FR	G					
	55-70	lms	75YR33 <b>0</b> 0						0	0		0	MDCAB I	FR	G					
	70-90	ms	10YR44 00	00FE00	00 C	(	OOMMOO	00	0	0		0	WKMSAB 1	۷F	М					
•	90-120	ms	10YR66 00						0	0		0	S (	L	М					
3	0-30	scl	10YR42 00						0	0	HR	3								
	30-55	scl	10YR44 00	10YR56	6 00 F				0	0		0			М					
•	55-90	നടി	10YR44 00	10YR58	g 00 C			S	0	0		0			G					
	90-100	lms	25Y 63 00	10YR66	6 00 C			Y	0	0		0			G					IMP 100-IRONPAN
3P	0-30	നേടി	10YR41 00						0	0	HR	3								
	30 51	scl	10YR42 43	10YR56	6 00 F				0	0	HR	3	MDCSAB I	FR	М					
_	51 83	ms 1	10YR44 46						0	0	HR	5	WKCSAB I	FR	G					
£	83 90	lms	10YR44 46						0	0	HR	5	MDCSAB I							
	90 96	ms	75YR58 00	00FE00	M 00 0				0	0	HR	10	MDCSAB I	FM	М					IRONPAN-V COMPACT
	96 120	fs	25Y 83 00					Y	0	0		0	WKMAB 1	VF	М					
4	0 28	mcl	10YR42 00						n	n	HR	3								
_ •	28 40	mc1	10YR44 54								,,,,	0			М					
•	40 65	hc1	10YR53 00	10VP56	6 00 C			V		0		0			M			Υ		
I	65 100		10YR63 00							0		0			M			Ý		
•	100 120		10YR63 00					Y		0		0			G			•		
5	0 25	1	10YR42 00						0	0	HR	2								
	25 35	msl msl	10YR44 00	10005	s 00 C		OOMMOO	00 V		0		3			^					
	35 70	1ms	101R44 00	IUTKS	5 00 C	,	3014400	00 i Y		0		0			G G					IMP 70-IRONPAN
6	0-25	ms 1	10YR42 00								HR	3								
	25-50	scl	10YR43 00							0		0			М					
ł	50-55	scl	10YR43 00	10YR66	5 UO F				0	0	HR	10			М					IMP 55-IRONPAN
7	0 30	scl	10YR42 00						0	0	HR	3								
	30 50	scl	10YR53 43	10YR56	5 00 C			Υ	0	0	HR	5			М					

# rogram ALCO11 COMPLETE LIST OF PROFILES 10/04/95 MAIDSTONE LP SITE 66

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SAMPLE	DEPTH	TEXTURE	COLOUR	- M	OTTLES	S CONT	PED COL	CLEV					STRUCT/			P SPL CALC		
JAI'ILE	DEFIN	TEXTORE	COLOOK	COL	ABOIN	CONT	COL	GLET	"	O	LIII	101	CON2121	SIK	PUR IN	P SPL CALC		
8	0-32	mcl	10YR42 00						0	0	HR	3						
,	32-70	mc1	10YR53 52	10YR56	00 C			Υ	0	0	HR	5		М				
	70 100	mcl	10YR52 00	10YR58	00 M			Y	0	0	HR	5		М			IMP 1	00-IRONPAN
9	0 32	mc1	10YR42 00						0	0	HR	3						
	32 55	mc1	10YR54 00						0	0	HR	5		М				
	55 70	hc1	10YR53 00	10YR58	00 M			Υ	0	0	HR	5		М		Υ		
j	70 120	hc1	10YR63 00	10YR58	00 M			Υ	0	0	HR	5		М		Y		
10	0 30	msl	10YR42 00						0	0	HR	3						
Ì	30 55	lms	10YR43 00						0	0		0		G				
}	55 100	lms	10YR42 54	10YR66	00 C			Υ	0	0	HR	5		G				
	100-120	ms	10YR63 00	10YR66	00 C			Y	0	0		0		М				
11	0 30	mc1	10YR42 00						0	0	HR	3						
	30 60	scl	10YR53 52	10YR58	00 C			Υ	0	0	HR	5		М				
	60 80	scl	10YR63 00	10YR58	00 M			γ	0	0	HR	5		М				
	80 120	hcl	25Y 63 00	10YR58	00 M			Y	0	0		0		М		Υ		
12	0 30	scl	10YR42 00						0	0	HR	3						
	30 55	msl	10YR44 54						0	0		0		G				
	55-120	fs	25Y 63 00	10YR58	00 M			Y	0	0		0		G				
13	0 30	mcl	10YR42 00						0	0	HR	3						
	30-55	mcl	10YR54 00	10YR56	00 C			Y	0	0	HR	5		М				
•	55-80	scl	25Y 53 00	10YR58	00 M			Υ	0	0	HR	5		М				
	80-120	hel	25Y 63 00	10YR58	00 M			Υ	0	0		0		М		Υ		