A1 Maidstone Borough Local Plan Site 71 Furfield Quarry, Boughton Monchelsea Agricultural Land Classification, ALC Map & Report April 1995

AGRICULTURAL LAND CLASSIFICATION REPORT

MAIDSTONE BOROUGH LOCAL PLAN SITE 71 FURFIELD QUARRY, BOUGHTON MONCHELSEA

1 Summary

- 11 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 Maidstone Borough Local Plan
- 1 2 Site 71 comprises 21 8 hectares of land to the south of Maidstone and north-east of Boughton Monchelsea, Kent An Agricultural Land Classification (ALC) survey was carried out during April 1995 The agricultural land on the site was surveyed at a detailed level of approximately one boring per hectare A total of 14 borings and one soil inspection pit were described in accordance with MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF 1988) These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose a long term limitation on its use for agriculture
- 13 The work was carried out by members of the Resource Planning Team in the Eastern Statutory Centre of ADAS
- 14 At the time of the survey the agricultural land was under permanent grassland Land mapped as non-agricultural comprises woodland and scrub bordering the disused workings The area not surveyed represents a reinstated landfill site which is likely to comprise poor quality agricultural land, and be of limited use in agricultural terms
- 15 The distribution of grades and subgrades is shown on the attached ALC map and the areas are given in the table below The map has been drawn at a scale of 1 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	% of Agricultural Land
3a	10 5	48 2	86 1
3b	17	78	<u>13 9</u>
Woodland	08	37	100% (12 2 ha)
Not surveyed	76	34 8	
Non-Agricultural	<u>1</u> 2	<u>55</u>	
Total area of site	21 8	100%	

16 Appendix 1 gives a general description of the grades subgrades and land use categories identified in this survey. The main classes are described in terms of the

type of limitation that can occur the typical cropping range and expected level and consistency of yield

17 The majority of the agricultural land on the site has been assigned to Subgrade 3a, good quality land on the basis of a soil droughtiness (and occasionally soil wetness) limitation Soils typically comprise very slightly to moderately stony clay loams passing to clayey subsoils and resting on ragstone at variable depths A small area of land has been classified as Subgrade 3b moderate quality land, where profiles are particularly shallow over ragstone the soil droughtiness restriction thereby being more limiting to agricultural use

2 Climate

21 Estimates of climatic variables relevant to the assessment of agricultural land quality were obtained by interpolation from a 5 km grid point dataset (Met Office 1989) for representative locations in the survey area

Table 2 Climatic Interpolations

Grid Reference Altitude (m AOD)	TQ 781 520 100	TQ 784 514 90
Accumulated Temperature	100	20
(day degrees C Jan-June)	1394	1405
Average Annual Rainfall (mm)	707	696
Field Capacity (days)	144	143
Moisture Deficit Wheat (mm)	111	112
Moisture Deficit Potatoes (mm)	104	105
Overall Climatic Grade	1	1

- 22 Climatic factors are considered first when classifying land since climate can be overriding in the sense that adverse climatic conditions may restrict land quality irrespective of favourable site and soil conditions The details in the table above show that there is no overall climatic limitation affecting this site In addition no local climatic factors such as exposure or frost risk are believed to affect the site
- 2 3 However climatic factors do interact with soil factors to influence soil wetness and droughtiness limitations At this locality the climate is relatively dry in regional terms thereby increasing the likelihood of soil droughtiness problems

3 Relief

3 1 The site lies at an altitude of 85 100 m AOD falling gently from north to south Across most of the site gradient and relief are not significant in terms of agricultural land quality However across the area mapped as not surveyed which represents a restored landfill site small scale but regular changes in microrelief and the frequent occurrence of landfill gas vents will act to restrict the agricultural use of this land

4 Geology and Soils

- 4 1 British Geological Survey (1976) sheet 288 shows the entire site to be underlain by Hythe Beds which comprise sandy limestone and calcareous sand
- 4 2 Soil Survey of England and Wales (1983) sheet 6 shows the entire site to comprise soils of the Malling association These soils are described as fine loamy typical argillic brown earths over sandy limestone (ragstone) usually with a thin clayey layer at the junction of soil and limestone (SSEW 1984)
- 4 3 Detailed field examination of the soils on the site confirmed the presence of clay loam and clay profiles overlying ragstone at variable depths

5 Agricultural Land Classification

- 51 Table 1 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached map
- 5 2 The location of the soil observation points are shown on the attached sample point map

Subgrade 3a

- 5 3 Good quality land has been identified across most of the area surveyed Soil droughtiness (and occasionally soil wetness) limitations act to slightly restrict the agricultural use of the land
- 5.4 Profiles comprise medium or occasionally heavy clay loam topsoils which may be calcareous or non calcareous and which contain 2 10% total ragstone fragments by volume These overlie similarly textured upper subsoils which are typically slightly more stony than the topsoils having up to 25% total ragstone fragments Profiles become heavier with depth commonly passing to clay below 40 50 cm Where clay horizons in the lower subsoil are reddish in colour they were found to be slowly permeable (see 1p) Some soils could not be penetrated by a soil auger with impenetrable horizons encountered between 45 and 95 cm depth as a result of 25-30% ragstone fragments within these horizons
- 5 5 Soils having such textural and structural characteristics as well as stony horizons have reduced reserves of moisture which can be made available for plant growth Consequently, plants may suffer drought stress particularly during the drier parts of the year Yield potential may be suppressed as a result
- 5 6 As well as this droughtiness limitation a number of profiles are also affected by soil wetness Slowly permeable clay horizons below 55 75 cm act to impede soil drainage thereby causing seasonal waterlogging and restricting crop growth and development cultivations and grazing by livestock

Subgrade 3b

- 5 7 A small area of land has been classified as moderate quality, where profiles similar to those described above but shallower and/or more stony over ragstone are restricted by soil droughtiness to a greater extent Impenetrable horizons were encountered between 30 and 40 cm depth thereby severely restricting profile available water
- 58 This land may also have been disturbed in conjunction with the adjacent restored working

ADAS Ref 2007/86/95 MAFF Ref EL20/862 Resource Planning Team Guildford Statutory Group ADAS Reading

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SOURCES OF REFERENCE

- British Geological Survey (1976) Sheet 288 Maidstone 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 1987) Agroclimatic datasite for Agricultural Land Classification
- Soil Survey of England and Wales (1983) Sheet 6 Soils of South East England

Soil Survey of England and Wales (1984) Bulletin 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 mineral workings and refuse tips where restoration conditions to soft after uses may apply

Woodland

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

Agricultural Buildings

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

Open Water

Includes lakes ponds and rivers as map scale permits

Land Not Surveyed

Agricultural land which has not been surveyed

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

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APPENDIX II

FIELD ASSESSMENT OF SOIL WETNESS CLASS

SOIL WETNESS CLASSIFICATION

Soil wetness is classified according to the depth and duration of waterlogging in the soil profile. Six soil wetness classes are identified and are defined in the table below

Wetness Class	Duration of Waterlogging ¹
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years 2
п	The soil profile is wet within 70 cm depth for 31-90 days in most years or, if there is no slowly permeable layer within 80 cm depth, it is wet within 70 cm for more than 90 days but only wet within 40 cm depth for 30 days in most years
ш	The soil profile is wet within 70 cm depth for 91-180 days in most years or if there is no slowly permeable layer present within 80 cm depth, it is wet within 70 cm for more than 180 days but only wet within 40 cm depth for between 31-90 days in most years
IV	The soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years or if there is no slowly permeable layer present within 80 cm depth, it is wet within 40 cm depth for 91-210 days in most years
V	The soil profile is wet within 40 cm depth for 211-335 days in most years
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years

Definition of Soil Wetness Classes

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

¹The number of days specified is not necessarily a continuous period

² 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
РОТ	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	Coniferous Woodland	DCW	Deciduous Wood
HTH	Heathland	BOG	Bog or Marsh	FLW	Fallow
PLO	Ploughed	SAS	Set aside	ОТН	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
- 8 If any of the following factors are considered significant 'Y' will be entered in the relevant column

MRELMicrorelief limitationFLOODFlood riskEROSNSoil erosion riskEXPExposure limitationFROSTFrost proneDISTDisturbed landCHEMChemical limitation

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

OC	Overall Climate	AE	Aspect	EX	Exposure
FR	Frost Risk	GR	Gradient	MR	Microrelief
FL	Flood Risk	ТХ	Topsoil Texture	DP	Soil Depth
CH	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
 Learny Sand

 S
 Sand

Sand	LS	Loamy Sand	SL	Sandy Loam
Sandy Silt Loam	CL	Clay Loam	ZCL	Silty Clay Loam
Sılt Loam	SCL	Sandy Clay Loam	С	Clay
Sandy Clay	ZC	Silty Clay	OL	Organic Loam
Peat	SP	Sandy Peat	LP	Loamy Peat
Peaty Loam	PS	Peaty Sand	MZ	Marine Light Silts
	Sandy Silt Loam Silt Loam Sandy Clay Peat	Sandy Silt LoamCLSilt LoamSCLSandy ClayZCPeatSP	Sandy Silt LoamCLClay LoamSilt LoamSCLSandy Clay LoamSandy ClayZCSilty ClayPeatSPSandy Peat	Sandy Silt LoamCLClay LoamZCLSilt LoamSCLSandy Clay LoamCSandy ClayZCSilty ClayOLPeatSPSandy PeatLP

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

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

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

- 2 MOTTLE COL Mottle colour using Munsell notation
- 3 MOTTLE ABUN Mottle abundance expressed as a percentage of the matrix or surface described
 - F few <2% C common 2-20% M many 20-40% VM very many 40% +
- 4 MOTTLE CONT Mottle contrast
 - F faint indistinct mottles, evident only on close inspection
 - **D** distinct mottles are readily seen
 - P prominent mottling is conspicuous and one of the outstanding features of the horizon
- 5 PED COL Ped face colour using Munsell notation
- 6 GLEY If the soil horizon is gleyed a Y will appear in this column If slightly gleyed an S will appear
- 7 STONE LITH Stone Lithology One of the following is used

HR	all hard rocks and stones	SLST	soft oolitic or dolimitic limestone
СН	chalk	FSST	soft fine grained sandstone
ZR	soft argillaceous or silty rocks	GH	gravel with non porous (hard) stones
MSST	soft medium grained sandstone	eGS	gravel with porous (soft) stones
SI	soft weathered igneous/metamo	orphic re	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	MD moderately developed
ped size	F fine C coarse	M medium VC very coarse
ped shape	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 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

Grid	Ref	erence	TQ78405160	A F L	verage Annu ccumulated ield Capaca and Use lope and As	Temperature ty Level	e 140 144 Per	7 mm 5 degree 4 days manent Gr degrees S	ass			
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60	75	С	10YR44	00	0	30	HR	С	MDCSAB	FR	м	
75 1	00	с	10YR66	00	0	5	HR	м	MDCOPL	FR	Р	
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				G	ileying		cm					
				S	PL	075	CIII					
Droug	ht	Grade	3A	Д	PW 106mm	MBW	6 mm					
				A	PP 99 mm	MBP	6 mm.					

MAIN LIMITATION Droughtiness

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2	TQ78005190	PGR	S	01			1	1	69	43	69	-36	38				DR	ЗA	See 1P
3	TQ78105190	PGR				060	2	ЗA	112	0	105	0	3A				WD	ЗA	S1 gley 38
6	TQ78005180	PGR					1	2	98	-14	104	1	3A				DR	3A	S1 gley 32
7	TQ78105180	PGR	S	01			1	1	52	-60	52	53	4				DR	3B	Impen 35
8	T078205180	PGR				055	2	3A	100	-12	102	-3	3A				WD	3A	Sl gley 30
11	TQ78105170	PGR	S	02			1	1	49	-63	49	56	4				DR	3B	Poss disturbe
12	TQ78205170	PGR	S	01	025	075	2	2	114	2	112	7	3A				DR	3A	See 1P
3	TQ78305170	PGR	SE	01	030	060	3	ЗA	115	3	108	3	3A				WD	3A	See 1P
18	TQ78305160	PGR	SE	02	025		2	2	84	28	88	-17	3B				DR	3A	See 1P
9	TQ78405160	PGR	S	02			1	1	84	28	91	-14	3B				DR	ЗA	Sl gley 29
21 -	TQ78305150	PGR	SĘ	03			1	2	63	49	63	42	38				DR	3B	Very shallow
22	TQ78405150	PGR	S	03			1	2	114	2	114	9	ЗА				DR	ЗA	S1 gley 35
23	TQ78405140	PGR	S	04		060	2	2	108	4	110	5	3A				DR	3A	Sl gley 60

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				М	OTTLES		PED			STON	ES	- STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	>6 LT	тн то	T CONSIST	STR POR IM	P SPL CALC	
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	60 90	с	10YR56 00	75YR58	00 C			S	0	0	0		м	Y	Imp - ragstone
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