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Worthing Borough Local Plan Site 2 Garden Wood West of Durrington, West Sussex Agricultural Land Classification, ALC Map and Report February 1995

AGRICULTURAL LAND CLASSIFICATION REPORT

WORTHING BOROUGH LOCAL PLAN SITE 2 LAND AT GARDEN WOOD WEST OF DURRINGTON WEST SUSSEX

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 Worthing Borough of West Sussex The work forms part of MAFF's statutory input to the preparation of the Worthing Borough Local Plan
- Site 2 comprises 124 3 hectares of land south of the A27 and east of Titnore Lane at Durrington near Worthing in West Sussex. An Agricultural Land Classification (ALC) survey was carried out in February 1995. The survey was undertaken at a detailed level of approximately one boring per hectare of agricultural land surveyed. A total of 83 borings and four soil inspection pits 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.
- At the time of the survey the majority of the agricultural land on the site comprised permanent grassland. Winter wheat and Set aside land prevails towards the east of the site. Areas marked as Non agricultural include scrubland areas of Woodland in the west of the site have also been mapped. Areas marked as Urban comprise tarmac roads private dwellings and a caravan site. A group of farm buildings has been mapped in the north east of the site.
- 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. This map supersedes any previous survey information for the site.

Table 1 Distribution of Grades and Subgrades

Area (ha)	% of Site	/ of Agricultural Land						
28 1	22 6	36 4						
48 3	38 9	62 6						
0 8	0 6	<u>1 0</u>						
4 8	3 9	100 (77 2ha)						
25 5	20 5							
15 4	12 4							
0 1	0 1							
<u>13</u>	<u>1 0</u>							
124 3ha	100 0							
	28 1 48 3 0 8 4 8 25 5 15 4 0 1 <u>1 3</u>	28 1 22 6 48 3 38 9 0 8 0 6 4 8 3 9 25 5 20 5 15 4 12 4 0 1 0 1 1 3 10						

- 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
- 17 The majority of the agricultural land on the site has been classified as Subgrade 3b moderate quality land with soil wetness and droughtiness as the main limitations Towards the north east of the site soil profiles tend to comprise well drained medium silty clay loams which become stony at comparatively shallow depths overlying gravel These soil profiles show a significant restriction upon profile available water which will in turn effect the level and consistency of crop yields Towards the west of the site soils tend to be less stony and show signs of a drainage imperfection in the form of evidence of shallow wetness from the topsoil or upper subsoil Subsoils tend to comprise slowly permeable clays at relatively shallow depths which significantly impede drainage such that a classification of Subgrade 3b is appropriate Areas of land classified as Subgrade 3a show similar but less severe types of limitation to the Subgrade 3b land Where wetness is overriding slowly permeable clays occur at greater depths thereby causing less of a restriction upon soil drainage Furthermore where droughtiness is overriding the depth at which soils become restrictively stony is greater The amount of profile available water exhibited by these soils increases and there is a subsequent decrease in the severity of any droughtiness limitation Small areas of land on the site have been mapped as Grade 4 where there is a severe wetness limitation

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.
- No local climatic factors such as exposure or frost risk are believed to affect the site. However climatic and soil factors interact to influence soil wetness and droughtiness limitations. At this location the climate is relatively warm and wet in a regional context. Moisture deficits are also relatively high this can be attributed to the coastal location of this with correspondingly high rates of evapotranspiration. Therefore the likelihood of any soil droughtiness problems may be increased.

Table 2 Climatic Interpolations

Grid Reference	TQ105 048	TQ 097 055
Altıtude (m AOD)	15	40
Accumulated Temperature	1527	1499
(°days Jan June)		
Average Annual Raınfall (mm)	766	779
Field Capacity Days	160	162
Moisture deficit wheat (mm)	119	116
Moisture deficit potatoes (mm)	116	111
Overall Climatic Grade	1	1

3 Relief

The site lies at an altitude of approximately 15-40m AOD being gently undulating in the north and west becoming relatively flat towards the south eastern edge. Nowhere on the site do gradient or relief pose any limitation to agricultural use.

4 Geology and Soils

- The published geological information (BGS 1972 and 1984) shows the geology of the site to be relatively complex. The majority of the site is mapped as London Clay in the west and Head in the east. The central part of the site towards the north is shown to comprise Sand in London Clay and Woolwich and Reading Beds. A small area of Brickearth over London Clay is mapped towards the south east of the site.
- The published soils information (SSGB 1967) maps the soils on the site as six distinct series. These comprise the Swanmore. Titchfield Curdridge Binsted (extremely flint phase). Charity and Hook series. Swanmore soils are described as gleyed clayey soils with slowly permeable subsoils. Titchfield soils are described as gleyed clayey soils with a relatively high flint content and slowly permeable subsoils. Curdridge soils are described as relatively deep free draining sandy loams and sandy clay loams. Binsted soils are described as relatively shallow and flinty clays. Charity soils are described as shallow flinty clays derived from the head deposits. Hook soils are described as deep well drained loamy soils. (SSGB 1967)
- Detailed field examination found the soils on the site to be loamy with flinty or very flinty subsoils towards the east Poorly drained loamy soils with slowly permeable subsoils tend to predominate in the west of the site

5 Agricultural Land Classification

The location of the soil observation points are shown on the attached sample point map

Subgrade 3a

- Approximately 28 hectares of agricultural land on the site has been classified as Subgrade 3a good quality land with soil wetness and droughtiness as the main limitations
- 53 Within the Subgrade 3a area of land towards the centre of the site soil wetness tends to be the principal limitation. Soil profiles within this mapping unit tend to comprise medium clay loam or silty clay loam topsoils overlying heavier textured upper subsoils which in turn rest upon clay lower subsoils commencing at depths of between 47 55cm Occasionally organic loams were noted in the topsoil Profiles tend to show signs of a wetness imperfection in the form of gleving from the topsoil A subsequent soil inspection pit (pit no 2) showed the clay lower subsoil to be poorly structured with low porosity and therefore may be classified as slowly permeable causing a moderate drainage imperfection. The depth to the slowly permeable clay and the evidence of gleving in the profile means that these soils are assigned to Wetness Class III Therefore a classification of Subgrade 3a is appropriate given the prevailing local climatic conditions. Poorly drained wet soils can inhibit plant and root development and may be more susceptible to structural damage through poaching by grazing livestock or trafficking by agricultural machinery
- 5 4 Subgrade 3a land mapped towards the eastern edge of the site shows signs of a droughtiness limitation Soil profiles tend to comprise medium silty clay loam textures which tend to become heavier and more stony with depth. Profiles within this mapping unit commonly proved impenetrable to the auger at depths of between 60 70cm subsoils tending to be moderately stony (10 30% total flints v/v) above these depths A soil inspection pit (pit no 4) was dug to assess the nature of these soils particularly to assess the stoniness of the subsoils described soil profile at the location of the pit comprises a very slightly stony (3% total flints v/v) medium silty clay loam topsoil which overlies a slightly stony (10% total flints v/v) similar textured upper subsoil extending to a depth of 65cm A moderately stony (30% total flints v/v) heavy silty clay loam lower subsoil extended to a depth of 80cm where the profile became appreciably more stony comprising gravel which was impenetrable to digging. Evidence of plant rooting was notably scarce at this depth and given the underlying geology it is unlikely that the profile will become any less stony below this depth. Consequently this is the lower depth used for the purposes of calculating the amount of profile available water for crop growth as there is minimal available water below this in the gravel A moderate restriction upon profile available water is evident arising as a result of the combination of soil textures structures stone contents and the local climatic regime. Therefore a classification of Subgrade 3a is appropriate due

to this droughtiness limitation which may affect the level and consistency of crop yields. Observations at the pit have been used for the purpose of assigning a grade to the impenetrable borings in this mapping unit. Assumptions have been made regarding the nature of the soils below these impenetrable depth using information derived from the pit.

Subgrade 3b

- The majority of the agricultural land on the site has been classified as Subgrade 3b moderate quality land also due to soil wetness and droughtiness limitations. These limitations are of a similar yet more severe nature to those exhibited by land within the Subgrade 3a mapping unit
- Subgrade 3b land mapped towards the west of the site experiences soil drainage imperfections. This reflects the presence of soils derived over London Clay Soil profiles in this area of the site typically comprise medium or heavy silty clay loam topsoils which tend to rest directly upon clay subsoils. Profiles commonly show evidence of a wetness imperfection in the form of gleying from the topsoil. A soil inspection pit (pit no. 3) towards the west of this mapping unit found the clay subsoil to be poorly structured with low porosity, and therefore classified as slowly permeable which significantly impedes drainage. The presence of gleying and the relatively shallow depths to these slowly permeable layers means that these soils are assigned to Wetness Class IV with a resultant classification of Subgrade 3b given the prevailing climatic conditions. Poorly drained wet soils can inhibit plant and root development, and may be more susceptible to structural damage through trafficking by agricultural machinery or poaching by grazing livestock. This can in turn affect the timing and frequency of such operations.
- 57 The remainder of the Subgrade 3b land mapped around the central and north eastern parts of the site shows a significant droughtiness limitation. Soil profiles exhibiting more severe droughtiness problems typically comprise slightly stony or moderately stony (10 30% total flints v/v) medium silty clay loam topsoils overlying a moderately stony (10 35% total flints v/v) medium or heavy silty clay loam upper subsoil Profiles of this type proved impenetrable to the soil auger at depths of between 30 50cm commonly being impenetrable below the topsoil Therefore a soil inspection pit (pit no 1) was dug to assess the stoniness of the soil profile and the cause of the impenetrability. At the location of the pit a moderately stony (12% total flints v/v) medium silty clay loam topsoil was found to overlie a very stony (45% total flints) similar textured upper subsoil extending to a depth of 54cm The lower subsoil was found to consist of a very stony (65% total flints v/v) medium silty clay loam this stone content bordering on classification as pure gravel The pit became impenetrable to digging at 75cm where evidence of plant rooting was found to be scarce. The underlying geology suggests that profiles are unlikely to become any less stony with depth subsequent droughtiness calculation using 75cm as the lower depth found this described profile to exhibit a significant restriction upon the amount of profile available water for plant growth. This in turn can affect the level and consistency of crop yields such that a classification of Subgrade 3b is appropriate. Even if

roots could penetrate any deeper into the gravel there is insufficient available water to qualify for a higher grade. Observations at the pit have been used in assigning a grade to those soil auger borings that proved impenetrable at relatively shallow depths in this mapping unit. Assumptions have been made regarding the nature of the soils below these impenetrable depths using information derived from the pit.

Grade 4

A small area of land on the site has been classified as Grade 4 poor quality land due to a severe wetness limitation. The presence of hydrophilic plant species such as <u>Juneus</u> rushes suggests that this land is waterlogged for long periods which will have a detrimental affect upon its use for agriculture

ADAS Ref 4207/293/94 MAFF Ref EL42/472 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

- British Geological Survey (1972) Sheet 317 Chichester 1 63 360 Drift Edition
- British Geological Survey (1984) Sheet 318/333 Worthing / Brighton 1 50 000 Solid & Drift Edition
- MAFF (1988) Agricultural Land Classification of England and Wales Revised guidelines and criteria for grading the quality of agricultural land
- Meteorological Office (1989) Climatic datasets for Agricultural Land Classification
- Soil Survey of Great Britain (1967) Bulletin No 3 Soils of the West Sussex Coastal Plain

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 religious buildings cemeteries. 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

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 ¹
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years ²
11	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

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
- 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 Pastur	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	HTO	Other
HRT	Horticultural Cros	ps			

- 1
- GRDNT Gradient as estimated or measured by a hand held optical chinometer 3
- GLEY/SPL Depth in centimetres (cm) to gleying and/or slowly permeable layers 4
- 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		-		

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

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

Soil Pits and Auger Borings

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

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

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

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

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

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

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

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

HR all hard rocks and stones
CH chalk

SLST soft collic or dolumitic limestone
FSST soft fine grained sandstone

ZR soft argulaceous 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

1

APW available water capacity (in mm) adjusted for wheat

APP available water capacity (in mm) adjusted for potatoes

MBW moisture balance wheatMBP moisture balance potatoes

S te Name WORTHING LP SITE 2 P t N ber 1P

Grid Reference TQ10900540 A erage An al Ra nfall 766 mm

Acc m 1 t d Tempe tr 1527 d g ee d ys

Field Capacity Le el 160 days Lind Use Whilat Slope and Aspect deg ees

HORI	ZON	TEXTURE COLOUR		STONES	2	TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	30	MZCL	10YR42 00	8		12	HR					
30	54	MZCL	10YR52 00	0		45	HR				М	
54	75	MZCL	10YR64 00	0		65	HR				Þ	

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Wet s G de 1 W t e s Cl ss I Gley ng cm SPL No SPL

Doght Grade 3B APW 078mm MBW 41 mm

APP 082mm MBP 34 mm

FINAL ALC GRADE 3B MAIN LIMITATION D o ghtin

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Sit Name WORTHING LP SITE 2

PtN ber 2P

Grid Reference TQ10600540

A erage Ann al Ra fall

766 mm Acc m lated Temper t re 1527 degree days

F eld Capac ty L el

160 days

LadUe

P rma ent G ss

Slope a d Aspect

02 degrees N

HORIZON		TEXTURE	COLOUR	STONES 2		TOT STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	29	MZCL	10YR42 00	0		3	HR					
29	50	HZCL	10YR63 00	0		3	CH	M	MDCSAB	FR	M	Y
50	62	С	10YR73 00	0		2	HR	М	WKCSAB	FM	P	
62	80	С	10YR71 00	0		2	HR	M	MASSVE	FM	Р	

Wetn ss G ad 3A Wetness Class G1 y ng

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050 cm

D ought G ade

APW MBW 0 mm mm 0 mm

APP MBP

FINAL ALC GRADE

MAIN LIMITATION Wet ess

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3A

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Site Name WORTHING LP SITE 2

Pit N mbe 3P

Grid Reference TQ10300500 A er ge A al R inf ll

766 mm

Ac m lated Temper t re 1527 deg ee d ys

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L d U

Prma t G ss

Slope and Aspect

deg s

HORI	ZON	TEXTURE COLOUR		STONES	STONES 2 TOT STONE		LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	28	HZCL	10YR42 00	1		5	HR	F				
28	39	С	10YR63 73	0		3	HR	M	MDCSAB	FM	M	
39	65	C	25Y 72 00	0		1	HR	M	WKCAB	FM	P	

Wet ess G ade 3B

Doght G de

W t ess Clas I۷

Gley g

APW

APP

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SPL

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0 mm mm MBP 0 mm

FINAL ALC GRADE 38 MAIN LIMITATION W tes

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S te Name WORTHING LP SITE 2 Pit N mber 4P

Grid Refere ce TQ10900493 A erage An al R nf ll 766 mm

Acc m 1 ted Tempe t 1527 deg ee days

F eld Cap c ty Le el 160 days L d U e Wheat

Slope a d Aspect 01 deg ee S

HORI	ZON	TEXTURE COLOUR		STONES	2 TOT STONE		LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0	35	MZCL	75YR52 00	2		3	HR					
35	65	MZCL	75YR53 00	0		10	HR	F	MDCSAB	FR	М	
65	80	HZCL	75YR64 00	0		30	HR	F			М	

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Wetness Grade 1 Wetness C1 ss I G1ey g cm SPL N SPL N SPL

Doght Grad 3A APW 114mm MBW 4 mm APP 119mm MBP 6 mm

FINAL ALC GRADE 3A
MAIN LIMITATION D ght es

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NO GRID REF USE CAPANT CLEY SPL CLASS GRADE AP MB AP MB DRT PLOOD EXP DIST LIMIT COMMENTS IP TOISSOSCO MIT		SAMPL	.E	A:	SPECT				WET	VESS	WHE	ΆΤ	P01	rs	м	REL	EROSI	N FR	OST	CHEM	ALC	
1P T010000540 H-T						GRDNT	GLEY	SPL														COMMENTS
2P TO10600540 PGR N 02 029 050 3 3A A 0 0 0 HE 3A 710100500 PGR D28 039 4 39 0 0 0 HE 3B 150 SEETP 11 TO10200557 PGR 0 038 4 38 0 0 0 0 HE 3B 150 SEETP 11 TO10200557 PGR 0 038 4 38 0 0 0 0 HE 3B 150 SEETP 12 TO10300559 PGR 0 0 027 4 3B 0 0 0 0 HE 3B 150 SEETP 13 TO10400550 PGR 0 0 02 2 2 070 48 070 43 3B 0 0 0 HE 3B 140 SEETP 15 TO1020555 SAS N 0 01 0 1 1 0 064 55 064 52 4 0 DR 3B 140 SEETP 16 TO109500560 SAS N 0 01 0 1 1 0 064 55 064 55 4 DR 3B 140 SEETP 17 TO10900560 SAS N 0 01 0 1 1 0 064 55 064 52 4 DR 3B 140 SEETP 18 TO11010559 PGR N 0 0 0 0 0 N 0 0 N 0 0 0 N 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 0 N 0 0 0 N 0 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 0 N 0 0 0 N 0 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 0 N 0 0 N 0 0 N 0 0 0 N 0 N 0 0 N 0 0 N 0 N 0 0 N 0 N 0 0 N 0 0 N 0 N 0 0 N 0 N 0 0 N 0 N 0 0 N 0 N 0 N 0 0 N 0 N 0 N 0 0 N												-				. 4222						J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
AP TO 10300500 PGR		1P	TQ10900540	WHT					1	1	078	41	082	34	3B					DR	3B	PIT 75
## PT010900493 MeT		2P	TQ10600540	PGR	N	02	029	050	3	ЗА		0		0						WE	ЗА	
11 TQ10220557 PGR		3P	TQ10300500	PGR			028	039	4	38		0		0						WE	3B	
Tologososos PGR		4P	TQ10900493	WHT	S	01			1	1	114	4	119	6	3A					DR	3A	DR TO 80
11 TO10220557 PQR		5	TQ09560563	PGR			030		2	2	076	43	076	40	38					DR		
12 101300559 PGR	_																					
131 T010400560 PGR	H	11	TQ10220557	PGR			0	038	4	3B		0		0						WE	3B	
15 TQ10620563 ASS	•	12	TQ10300559	PGR			0	027	4	38		0		0						WE	38	
16 TQ10800560 SAS H 01 1 1 1 064 55 064 52 4 0R 38 IAQ SEEIP 17 TQ10900560 SAS H 01 1 1 1 052 66 052 61 4 0R 38 I3Q SEEIP 18 TQ11100559 PGR W 01 1 1 1 045 74 045 71 4 0R 38 I3Q SEEIP 19 TQ11100560 PGR U 1 1 045 74 045 71 4 0R 38 I3Q SEEIP 20 TQ111100560 PGR U 1 1 045 74 045 71 4 0R 38 I3Q SEEIP 21 TQ10900554 PGR SE 02 D 030 4 38 0 0 0 WE 38 26 TQ10080554 PGR SE 02 D 030 4 38 0 0 0 WE 38 27 TQ1000550 PGR U 0 010 4 38 0 0 0 WE 38 28 TQ10300550 PGR U 0 029 047 3 3A 0 0 0 WE 38 29 TQ10400550 PGR U 0 060 3 3A 0 0 0 WE 38 31 TQ10500550 PGR U 0 080 4 38 0 0 0 WE 38 31 TQ10500550 PGR U 0 080 4 38 0 0 0 0 WE 38 31 TQ10500550 PGR U 0 080 4 38 0 0 0 0 WE 38 31 TQ10500550 PGR U 0 080 4 38 0 0 0 0 WE 38 32 TQ10700550 SAS W 01 S85 1 1 1 099 20 TQ3 13 3A 0 0 0 WE 38 33 TQ10700550 SAS W 01 S85 1 1 1 099 20 TQ3 13 3A DR 3A DR 3A ISQ		13	TQ10400560	PGR			0		2	2	070	48	070	43	38					DR	3B	140 SEE1P
17 TQ10900560 SAS		15	TQ10620563	SAS	W	01			1	1	061	58	061	55	4					DR	3B	I40 SEE1P
18		16	TQ10800560	SAS	W	01			1	1	064	55	064	52	4					DR	3B	I40 SEE1P
18 TQ11010559 PGR W																						
19	£	17	TQ10900560	SAS					1	1	052	66	052	61	4					DR	3B	I30 SEE1P
20 TQ11100560 PGR		18	TQ11010559	PGR	W	01			1	1	045	74	045	71	4					DR	3B	I35 SEE1P
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25 TQ10030549 PGR SE 02 0 030 4 3B 0 0 0 HE 3B 26 TQ10300550 PGR 1 0 024 4 3B 0 0 0 0 HE 3B 27 TQ10200550 PGR 1 0 024 4 3B 0 0 0 0 HE 3B 28 TQ10300550 PGR 1 0 024 4 3B 0 0 0 0 HE 3B 28 TQ10300550 PGR 1 0 024 4 3B 0 0 0 0 HE 3B 29 TQ10400550 PGR 1 0 026 4 3B 0 0 0 0 HE 3B 29 TQ10400550 PGR 1 0 060 3 3A 0 0 0 HE 3B 27 TQ10400550 PGR 0 028 043 4 3B 0 0 0 0 HE 3B 28 TQ10500550 PGR 0 028 043 4 3B 0 0 0 0 HE 3B 28 TQ10500550 PGR 0 028 043 4 3B 0 0 0 0 HE 3B 28 TQ10500550 PGR 0 028 043 4 3B 0 0 0 0 HE 3B 28 TQ10500550 PGR 0 028 043 4 3B 0 0 0 0 HE 3B 28 TQ10500550 PGR 0 028 043 4 1 1 1 099 20 103 13 3A DR 3A 180 3A 3A 17010400550 PGR 0 028 043 4 1 1 1 005 14 101 15 3A DR 3A 180 3A 160 3A 3A 17010400550 PGR 0 028 043 4 1 1 1 005 14 101 15 3A DR 3A 160 3A 160 3A 17010400550 PGR 0 0 0 PGR 0		_							1	1	044	75	044	72	4					DR	38	130 SEE1P
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_ 91	TQ11000510				000	1	1	095		102	14	3B						DR	3A	I70 SEE4P I60 SEE4P
92	TQ11100510					1	1	078		084	32	3B						DR	3A	I70 SEE4P
94	TQ10200500				033 033	4	3В	0,0	0		0	50						WE	3B	170 35546
95	TQ10300500				033 033	4	38		0		0							ME	3B	
	1010300300	· · ·			433 433	7	50		·		v							MC.	JB	
96	TQ10400500	PGR			030 045	3	3B		0	+	0							WE	3B	
97	TQ10500500				030 080	2	2	147		123		2						MD	2	
98	TQ10600500				030	2	2	160		124	8	2						MD	2	
99	TQ10700500		S	01	028	2	2	092		097	19	38						DR	3A	I60 SEE4P
100	TQ10800500			01	030 030	4	- 3В		0		0	-						WE	38	100 35541
_						-			•		•								JU	
101	TQ10900500	WHT	S	อา	0 55	1	1	106	13	119	3	ЗА						DR	3A	170 SEE4P
102	TQ11000500			01		1	1	116		116	0	3A						DR	3A	
103	TQ10200490	LEY			029 029	4	3B		0		0							WE	3B	
104	TQ10300490	LEY			029 029	4	3В		0	1	0							WE	38	
105	TQ10400490	LEY			030 040	4	3В		0)	0							WE	3B	
																		_		
— 107	TQ10600490	STB	Ε	02	030 030	4	3B		0)	0							WE	3B	
108	TQ10700490	ST8	S	01		1	1	065	54	065	51	4						DR	38	I40 SEE1P
109	TQ10800490) WHT	S	01		1	1	067	52	067	49	4						DR	3B	140 SEE1P
_110	TQ10900490	THW (S	01	048	1	1	101	18	3 111	5	ЗА						DR	3A	I65 SEE4P
11	TQ11000490	THW C	S	01	048	1	1	098	21	107	9	38						DR	3A	165 SEE4P
115	TQ10700480	RGR			0 025	4	3B		C)	0							WE	3B	
16	TQ10900480	THW	S	01	028	2	2	109	10	117	1	ЗА						DR	3A	I75 SEE4P
1																				

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SAMF	LE	Α	SPECT				WET	NESS	WHE	AT	P0	TS	M F	REL	EROSN	FROST	CHEM	ALC	
NO	GRID REF	USE		GRONT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL000	EX	P DIST	LIMĮT		COMMENTS
	T014000400		•		020		•	•	000		100						}		
117	TQ11000480	WHT	S	01	030		2	2	096	23	102	14	3B				DR	3B	I60 SEE4P
122	TQ10700470	RGR			0	035	4	3B		0		0					WE	38	
127	TQ10960473	WHT	S	01	025	045	3	3A	091	28	097	19	3B				MD	ЗА	160

.

						MOTTLES		PED			5	STONES		STRUCT/	SUBS	3				
SAMPLE	DEPT	H	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	/ 2	(5 LITH	TOT	CONSIST	STR	POR	IMP	SPL	CALC	
1P	0 3	0	mzcl	10YR42 00	ı					8	() HR	12							
	30 5	4	mzcl	10YR52 00	ı					0	(HR	45		М					PIT DUG TO 75
ŀ	54 7	5	mzcl	10YR64 00	l					0	(3 HR	65		Р					
2P	0 2	9	mzcl	10YR42 00	l					0	(O HR	3							
•	29 5	0	hzcl	10YR63 00	10YR	58 00 M			Υ	0	(O CH	3	MDCSAB F	RM				Y	PIT DUG TO 70
	50 6	2	С	10YR73 00	75YR!	58 46 M			Y	0	- (O HR	5	WKCSAB F	MP	γ		Υ		AUGER TO 80
_	62 8	30	С	10YR71 00	75YR4	46 00 M			Y	D	1	O HR	S	massve f	MΡ	Υ		Y		
3P	0 2	8	h cl	10YR42 00	10YR	58 00 F				1		O HR	5							
	28 3	39	С	10YR63 73	10YR	58 00 M		00MM00	00 Y	0	, 1	O HR	3	MDCSAB F	мм					
_	39 €	55	С	25Y 72 00	75YR	58 00 M		00MN00	00 Y	0		O HR	1	WKCAB F	МР	Y		Y		
4P	0 3	35	mzcl	75YR52 00						2		O HR	3							
<u> </u>	35 6	55	mzcl	75YR53 00	10YR	56 00 F				0	1	O HR	10	MDCSAB F	RM					
1	65 8	30	hzcl	75YR64 00	10YR	56 00 F				0)	O HR	30		M					
5	0 :	30	mzcl	10YR41 00)					C)	0 HR	10							
	30 !	50	mzcl	10YR63 00	10YR	56 00 C			Y	0	}	0 HR	30		М					IMP FLINTS
11	0	19	m cl	10YR42 00	10YR	56 51 C			Υ	. 0)	0	0							
_	19 3		hzcl	10YR52 00					Υ	C)	0	0		М					
	38		С	10YR62 0					Y)		0		Р			Y		
12	0 :	3 7	mzcl	10YR42 0	n 10vp	56 OO C			Υ	, ,)	0	٥							
12	27		C	10YR62 0					Y			0	0		n			Υ		
13	41	oo.	C	TOTROZ O	O IOTR	.00 71 C			•		,	U	v		р			,		
13	0	27	mzcl	10YR42 0	0					C)	0 HR	2							
•	27	40	h cl	10YR52 0	0 10YR	56 00 C			γ	' ()	0 HR	10		М					IMP FLINTS
15	0	30	mzcl	10YR42 0	0					8	3	0 HR	12							
	30	40	mzcl	10YR44 0	0					C)	O HR	40		М					IMP FLINTS
16	0	28	mzcl	10YR43 0	0					6	5	0 HR	12							
_	28	40	mzcl	10YR54 0	0					()	0 HR	20		М					IMP FLINTS
17	0	30	mzcl	10YR43 0	О					į	5	0 HR	10							IMP FLINTS
18	0	25	m 1	10YR43 0	0					18	8	0 HR	30							
1	25	35	mzcl	10YR54 0	0							0 HR	35		М					IMP FLINTS
19	0	25	mzcl	10YR43 0	0					14	4	0 HR	20							
1	25		mz 1	10YR54 0								O HR	30		М					IMP FLINTS
20	0	30	m cl	10YR43 0	0					10	6	0 HR	25							IMP FLINTS
22	0	20	h 1	25Y 42 0	10						O	0 HR	5							
	20		c	25Y 51 C		R68 00 M	1		,		0		0		Þ			Υ		

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				MK	OTTLES	5	PED			STONES		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY				CONSIST		IMP SPL	CALC	
25	0 15	m cl	10YR52 00	10YR56	00 C			Y	0	0	0					
	15 30	c	05Y 51 00	10YR68	00 M			Υ	0	0	0		М			
	30 70	С	05Y 61 00	75YR68	00 M			Y	0	0	0		Р	Y		
26	0 15	mzcl	10YR52 00	10YR56	00 C		00MN00	00 Y	0	0 HR	2					
	15 70	c	05Y 61 00	75YR68	00 M			Υ	0	0	0		Þ	Y		}
27	0 22	mz¢l	10YR52 00	100060	00.0			Y	0	0	0					
21	22 30		10YR52 00					Y	0		0					
	30 45		10YR52 62						-				M;	v		
								Y	0		0		P	Y		
	45 70	С	10YR62 00	טאוטו נ	/			Y	0	0	0		Р	Y		
28	0 24	mzcl	10YR42 52	10YR58	00 C			Υ	0	0 HR	2					
	24 70		10YR72 00	10YR78	81 M			Υ	0	0	0		P	Y		
29	0 29	m cl	10YR42 00)					۵	O HR	2					
	29 47		10YR52 00		00 C			Υ		0	0		М			
	47 85		10YR62 73					Y	0	0	0		P	Υ		
30	0.22		10YR42 00	100056	. 00 C			v	0	0	0					
30	0 22							Y	0	_	0		M			
-	22 38		10YR63 00					Y	0		0		M			
_	38 60		10YR62 00					Y	0		0		М			
	60 90) с	10YR63 64	4 1018/6	5 UU C			Υ	0	U	0		Р	Y		
31	0 28	3 mzcl	10YR42 0	0					0	0 HR	2					
_	28 43	3 mzcl	10YR52 0	0 10YR56	00 C			Υ	Q	0	0		M			
	43 12	20	10YR52 0	0 10YR58	3 61 C		00MN00	00 Y	0	0	0		Р	Y		
32	0 28	3 mzcl	10YR42 0	0					8	O HR	12					
1	28 38	3 mzcl	10YR54 0	0					0	0 HR	20		М			
•	38 80) h 1	10YR54 0	0 10YR58	3 00 C	;	00MN00	00 S	0	O HR	25		M			IMP FLINTS
3 3	0 30) mz 1	10YR43 0	0					6	0 HR	10					
	30 60) mzcl	10YR44 0						0	0 HR	25		м			
	60 85		10YR44 0						0	0 HR	40		М			
•	85 90		10YR54 0		3 00 C	;	00MN00	00 S	0	0 HR	20		М			IMP FLINTS
34	0 28	3 m 1	10YR43 0	n					11	0 HR	15					
	28 60		10YR54 0							0 HR	25		М			IND ELINIE
•	20 0	3 11201	101134 0	•					Ū	O FIR	23		171			IMP FLINTS
35	0 30	0 mzcl	10YR43 0	0					11	0 HR	15					
	30 50	0 mzc1	10YR54 0	0					0	0 HR	25		М			IMP FLINTS
36	0 30	0 m 1	10YR43 0	0					16	0 HR	25					
_	30 3		10YR44 0							0 HR	35		м			IMP FLINTS
•											-		• •			I'm 'CIMIO
37	0 2		10YR43 0							0 HR	25					
	28 4	0 mzcl	10YR54 0	10					0	0 HR	35		M			IMP FLINTS

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SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN	COL	GLEY	2					IMP SPL CALC	2
38	0 25	hzcl	10YR42 00	25456					0 HR	5				
	25 70	С	05Y 51 00	75YR6	8 00 M		Y	0	0	0		Þ	Y	
39	0 15	hzcl	10YR52 00	OOMNO	0 00 C			0	٥	0				
	15 20	С	10YR53 51			00MN00	00 Y	0		0		М		
•	20 70	С	05GY51 00				Υ	0	0	0		Р	Y	
40	0 15	hzcl	10YR52 00					0	0	0				
-	15 30	С	25Y 51 00	10YR6	M 00 8		Y	0	0	0		P	Y	
	30 70	С	25Y 62 00	75YR6	8 00 M	00MN00	0 0 Y	0	0	0		Р	Y	
		_	10,000 00					_		_				
41	0 15		10YR52 00				.,	0		0)
	15 35		25Y 52 00				Y	0		0		М	.,	
	35 70	С	05Y 61 00	IUTK	יייט אל		Y	0	U	0		P	γ	
4 2	0 20	mzcl	10YR42 52	10YR	6 00 C		Υ	0	0	0				
	20 40		25Y 63 00	10YR6	8 00 M		Υ	0	0 HR	10		м		
	40 60	С	25Y 62 00	75YR6	8 00 M	00MN00	00 Y	0	0 HR	20		Р	Υ	
_														
44	0 22	mzcl	75YR52 00	10YR	56 00 C		Y	0	0	0				
•	22 38		10YR52 00				γ	0	0	0		M		
_	38 70	С	10YR73 00	10YR	78 71 C	00MN00	00 Y	0	0	0		Р	Y	
45	0 26	mzcl	10YR42 00	10VD	50 nn c		v	0	0	0				
43	26 48		10YR52 00				Y Y		0	0		M		
	48 70		10YR52 62				Y		O HR	5		M P	γ	
ì	,		1011102 02				•	Ū	V III	Ţ		•	•	
46	0 30	mc1	10YR42 41	10YR	46 56 F			0	0 HR	2				
_	30 45	hc1	25Y 61 00	10YR	58 00 M		Υ	0	0	0		М		
	45 80	С	25Y 62 00	10YR	58 00 M		Y	0	0	0		М	Y	
	80 12	12m 0:	25Y 62 00	10YR	58 00 M		Υ	0	0	0		M	Y	
4 7	0.20	3	10VB41 00	1000	4E DD D		v	^	6 (0)	2				
4′	30 45	mzcl mzcl	10YR41 00 25Y 61 62				Ϋ́		O CH	2		М		
	45 55		25Y 53 00				Ý		0	0		M		
_	55 70		25Y 61 00				Y		0	Q		P	Y	
	70 90		05BG71 00				γ		0	0		P	Ϋ́	
48	0 28	3 mzcl	10YR42 00	10YR	46 0 0 C		Υ	0	0 HR	5				
	28 40		25Y 61 62				Υ		O HR	5		М		
	40 50) hel	257 61 62	2 10YR	66 00 C		Y	0	0 HR	20		М		IMP FLINTS
4 9	0 30) mz l	10YR43 00)				0	0 HR	14				
79	30 50		10YR44 00						0 HR	25		м		IMP FLINTS
-	J- V							v	V III	23		11		THE LETHIS
50	0 30) m 1	10YR43 00)				9	0 HR	14				
	30 40		10YR43 00						0 HR	25		М		IMP FLINTS
														-

•					MOTTLES	S	PED			STONES		STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL.	ABUN	CONT	COL	GLEY	2	6 LITH	TOT	CONSIST	STR POR	IMP SPL CALC	
51	0 35	mzcl	10YR43 00						9	O HR	14				
	35 42	mzcl	10YR54 00						0	O HR	25		М		IMP FLINTS
52	0 28	mzcl	10YR42 00						11	0 HR	15				
_	28 60	mzcl	10YR54 00						0	O HR	20		М		IMP FLINTS
59	0 23	mz 1	10YR52 00					Υ	0	O HR	2				
	23 37	hzcl	10YR52 00					Υ	0	0	0		М		
	37 65	C	10YR62 00	10YR7	78 61 M			Υ	0	0 HR	10		Р	Y	
60	0 22	mcl	10YR42 00						0	0 HR	2				
	22 45	lms	75YR52 00						0	0	0		М		
	45 12	0 ms	75YR52 72						0	0	0		М		
61	0 20	mzcl	10YR42 00	10YR5	56 00 C			Υ	0	0 HR	2				
	20 52	h cl	10YR52 00	10YR6	58 61 M			Y	0	0	0		М		
	52 80	С	10YR62 00	10YR6	58 72 M	l		Y	0	0	0		P	Y	l
63	0 30	m cl	10YR42 43						5	0 HR	15)
	30 50		10YR63 00		56 00 F	•			0		35		М		IMP FLINTS
	50 00		1011100	,					•	• • • • • • • • • • • • • • • • • • • •	-		**		1/4 (2111.5
64	0 24	mzcl	10YR42 00						6	O HR	10				
	24 50	mzcl	10YR54 00						0	0 HR	15		M		IMP FLINTS
65	0 26	mzcl	10YR43 00						6	0 HR	10				
	26 60		10YR54 00						0		10		M		
1	60 85		10YR54 00						0		15		М		IMP FLINTS
66	0 30	mzcl	10YR42 00						11	O HR	15				
1	30 55	mzcl	10YR54 00						0	O HR	25		М		IMP FLINTS
72	0 5	ol	25Y 31 00	10YR	46 00 C	;		Υ	0	O HR	3				
	5 30	mzcl	10YR52 00	10YR	56 00 C	:		Υ			10		М		
	30 45		25Y 53 00					Υ		0 HR	30		М		
	45 10	0 с	25Y 63 00	75YR	68 00 M	1		Υ	0	0	0		P	Y	
73	0 30	0)	25Y 31 00	10YR	46 00 0			Υ	0	0	0				
	30 50	mzcl	25Y 52 00	10YR	4 00 8	1		γ	0	0	0		М		
_	50 80) с	05Y 71 00	75YR	4 00 B	1		Y	0	0	0		Р	Y	
74	0 30	ml	10YR41 00	10YR	46 00 0			Υ	0	0	0				
_	30 55	msl	10YR53 00	10YR	56 00 (2		Υ	0	0	0		М		
	55 80) 1m	25Y 53 00	10YR	1 00 82	1		Υ	0	0	a		М		
	80 12	?0 sc1	05Y 71 00	10YR	78 00 N	1		Y	0	0	0		М		
75	0 30) mzcl	10YR42 00	10YR	56 00 0	0		Υ	2	1 HR	5				
	30 50		25Y 53 00	75YR	58 00 1	М	OOMNOO	00 Y		O HR	15		P	Y	

•					MOTTLES	i	PED			STONES	ì	STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 LITH	TOT	CONSIST	STR POR 1	IMP SPL	CALC	
76	0 30	mzcl	10YR42 00						4	0 HR	15					
ŀ	30 50	mzc]	10YR63 00						0	O HR	30		М			IMP FLINTS
77	0 30	mzcl	10YR42 00						2	0 HR	8					
	30 60	mzcl	10YR44 54	10YR5	56 00 F				0	0 HR	20		M			
Ì	60 65	gh	10YR56 00						0	0	0		Р			IMP FLINTS
78	0 35	mzcl	10YR42 43						1	0 HR	5					
_	35 65	mzcl	10YR44 54						0	O HR	5		М			
	65 70	hzcl	10YR54 00					S	0	O HR	10		M			
	70 75	hzcl	10YR54 00	10YR5	56 00 C			S	0	0 HR	30		М			IMP FLINTS
79	0 30	mz 1	10YR42 00						5	0 HR	12					
5	30 60	mzcl	10YR44 54						0	0 HR	40		М			IMP FLINTS
85	0 33	h cl	25Y 41 00	10YR4	46 00 C			Y	0	0 HR	5					
•	33 60	С	25Y 53 00	75YR	58 00 M			Y	0	0 HR	30		Р	Y		
86	0 30	mzcl	10YR42 00						0	0 HR	2					
	30 45	mzcl	10YR62 00	10YR	66 00 C			Y	0	0	0		М			
	45 80	c	05Y 61 00	10YR	58 00 M			Y	0	0	0		Р	Y		
87	0 30	m 1	10YR42 00						0	0 HR	2					•
	30 55	mzcl	10YR53 00	10YR	58 00 C			Y	0	0	0		М			}
	55 65	С	25Y 53 00	10YR	58 00 M			Y	0	0 HR	5		Р	Y		
	65 100	c	05Y 61 00	75YR	58 00 M		25YR48	00 Y	0	0	0		P	Y		
88	0 28	mzcl	10YR42 00						2	1 HR	10					
	28 45	С	05Y 71 00	75YR	58 00 M			Υ	0	0 HR	20		Р	Υ		
	45 60		25Y 53 00	75YR	58 00 M		00MN00	00 Y	0	0 HR	25		P	Y		
89	0 30	mzcl	10YR42 00						6	0 HR	10					
1	30 50	hzcl	25Y 52 00	10YR	58 00 C			Y		0 HR	20		М			IMP FLINTS
90	0 30	mzcl	10YR42 43						0	0 HR	3					
-	30 50	mzcl	10YR44 54						0		3		M			
	50 60	h cl	10YR54 00		56 00 C			S	0		5		М			
-	60 70	hzcl	10YR54 00	10YR	56 00 C	}		S	0	0 HR	25		М			IMP FLINTS
91	0 25	mzcl	10YR42 00	ı					2	0 HR	5					
•	25 60	mzcl	10YR44 54						0	0 HR	5		М			IMP FLINTS
92	0 30	mzcl	10YR42 00	,					3	0 HR	12					
4	30 45	mzcl	10YR54 00	I					0	0 HR	25		М			
_	45 70	mzcl	10YR56 00	1					0	0 HR	40		P			IMP FLINTS
94	0 33	hzc1	25Y 42 00	1					0	0	0					
•	33 65	c	25Y 63 61		R68 00 N	1		Y		0	0		Ρ	٧	,	

•				MOTTLES	i	PED		STONES		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL ABUN	CONT		2			•		OR IMP	SPL CALC	
			10,510 50	10,050 00 5				_						
95	0 33	hzcl		10YR56 00 F		.,	0		0		_			
	33 70	С	254 63 61	75YR68 00 M		Υ	0	U	0		Р		Y	
96	0 30	hzc1	10YR42 00)			0	O CH	2					
	30 45	c		10YR58 00 M		Y	0	0	0		М			
_	45 80	c		75YR68 00 M		Y	0	_	0		P		Y	
							-	•					·	
97	0 30	mz 1	10YR42 00	10YR56 00 F			0	0 HR	3					
_	30 55	mz 1	10YR63 00	10YR58 00 M		Y	0	0	0		М			
	55 80	hzcl	25Y 62 00	10YR58 00 M		Υ	0	0	0		M			
	80 120	c	25Y 62 00	10YR58 00 M		Y	0	0	0		P		Y	
		-					_	.	_					
98	0 30	mzcl		0 10YR56 00 F			0	O HR	2					
	30 45	mzcl		0 10YR56 00 C		Υ	0	0	0		M			
	45 120	hzcl	25Y 63 6	1 10YR58 00 M		Y	0	0	0		М			
99	0 28	mzcl	10YR42 00	n.			4	0 HR	5					
	28 50	mzcl		75YR58 00 C		Υ	Ö	O HR	10		M			
	50 60	h cl		0 75YR58 00 C		Y	0	O HR	30		M			IMP FLINTS
100							_	,	•••		.,			2711 1 2 11110
100	0 30	mzcl	10YR42 00	0 75YR58 00 F			6	0 HR	12					
	30 60	С	29Y 63 00	0 10YR88 00 M		Y	0	0 HR	5		Ρ	Υ	Υ	
101	0 28	mzc1	10YR43 00	0			2	O HR	3					
_	28 55	mzc1	10YR54 00	0			0	O HR	3		М			
•	55 70	hzc1	10YR54 0	0 10YR58 00 C		00MN00 00 S	0	O HR	10		М			IMP FLINTS
		•	10/10/10 0	•			_							
102	0 30	mzc)	10YR42 0					O HR	3					1
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