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West Sussex Minerals Plan
Site B: North-west Densworth,
East Ashling.
Agricultural Land Classification
ALC Map and Report
May 1995

AGRICULTURAL LAND CLASSIFICATION REPORT

WEST SUSSEX MINERALS PLAN SITE B: NORTH-WEST DENSWORTH, EAST ASHLING.

1. Summary

- 1.1 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of sites in West Sussex. The work forms part of MAFF's statutory input to the West Sussex Minerals Plan.
- 1.2 Site B comprises approximately 25 hectares of land to the north-west of Densworth, near East Ashling in West Sussex. An Agricultural Land Classification (ALC) survey was carried out during May 1995. The survey was undertaken at a detailed level of approximately one boring per two hectares of agricultural land surveyed. A total of 15 borings, three soil inspection pits and six topsoil stone measurements 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.
- 1.3 The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS.
- 1.4 The agricultural land at this site was under cereals and recently drilled maize, with an area of set-aside land in the east.
- 1.5 The distribution of grades and subgrades is shown on the attached ALC map, 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 Agricultural Land
3a	3.3	13.4
3b	<u>21.6</u>	<u>86.6</u>
Total area of site	$\overline{24.9}$	100%

1.6 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.

1.7 The agricultural land on this site has been classified as Subgrade 3a, good quality land and Subgrade 3b, moderate quality land with topsoil stoniness as the main limitation. Soils within the Subgrade 3b mapping unit typically comprise moderately stony topsoils resting upon very stony subsoils. A number of topsoil stone measurements within this mapping unit found the volume of stones greater than 2cm in size to exceed 15%, such that a classification of subgrade 3b is appropriate. Excessively stony topsoils can inhibit crop growth and establishment, and can increase production costs due to wear and tear on machinery and tyres. Towards the east of the site, both topsoils and subsoils were found to be less stony. Yet topsoils were found to contain between 10-15% stones greater than 2cm in size, which is sufficient to limit this land to Subgrade 3a due to the aforementioned topsoil stone limitation.

2. Climate

- 2.1 The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe climatic limitations will restrict land to low grades irrespective of favourable site or soil conditions.
- 2.2 The main parameters used in the assessment of an overall climatic limitation are average annual rainfall, as a measure of overall wetness, and accumulated temperature (degree days Jan-June), as a measure of the relative warmth of a locality.
- 2.3 A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset (Met. Office 1989). The details are given in the table below and these show that there is no overall climatic limitation affecting the site.
- 2.4 However, climatic factors do interact with soil factors to influence soil wetness and droughtiness limitations. At this locality the Field Capacity Days value is relatively high in a regional context, and the likelihood of any soil wetness problems may be increased. Similarly, the moisture deficits are relatively high in a regional context and therefore the limiting effect of soil wetness may be diminished.
- 2.5 No local climatic factors such as exposure or frost risk are believed to affect the site.

Table 2: Climatic Interpolation

Grid Reference	SU 835 078
Altitude (m)	30
Accumulated Temperature	1515
(degree days, Jan-June)	
Average Annual Rainfall (mm)	837
Field Capacity (days)	175
Moisture Deficit, Wheat (mm)	111
Moisture Deficit, Potatoes (mm)	105
Overall Climatic Grade	1

3. Relief

3.1 The site is relatively flat, lying at an altitude of 30-35m AOD.

4. Geology and Soils

- 4.1 The published geological map (BGS, 1972) shows the entire site to be underlain by Valley Gravel.
- 4.2 The published Soil Survey map (SSGB, 1967) shows the soils on the site to comprise those of the undifferentiated and extremely flinty Charity series. These are described as 'well drained fine silty and fine silty over clayey soils, locally very flinty, some shallow over flint gravel' (SSEW, 1983).
- 4.3 The majority of the soils on the site comprise silty clay loam textures, with flinty topsoils and extremely flinty subsoils.

5. Agricultural Land Classification

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

Subgrade 3a

5.2 An area of land towards the east of the site has been classified as Subgrade 3a, good quality land, with topsoil stoniness as the main limitation. Within this mapping unit, soils tend to be deeper over valley gravel than elsewhere on the site. A soil inspection pit (Pit 2) found the soils to comprise medium silty clay loam topsoils and upper subsoils resting upon heavy silty clay loam lower subsoils. The profile is moderately stony (containing 20-25% total flints) to a depth of 78cm where it becomes stoneless. However, topsoil stone measurements at the pit and elsewhere in this mapping unit found 11-15% flints greater than 2cm in size. This volume of stones in the topsoil is sufficiently high to restrict this land to Subgrade 3a.

Subgrade 3b

5.3 The remainder of the agricultural land on the site has been classified as Subgrade 3b, moderate quality land, also with topsoil stoniness as the main limitation. Within this mapping unit, moderately stony medium silty clay loam topsoils rest upon very stony medium silty clay loam subsoils. Consequently these soils proved impenetrable to the auger below the topsoil; a soil inspection pit (Pit 1) was dug to assess the nature of the subsoil. The majority of topsoil stone measurements within this mapping unit found the volume of flints greater than 2cm in size in the topsoil to exceed 15%. Where such volumes were observed, topsoil stoniness causes a significant limitation. Excessively stony topsoils can act as an impediment to cultivation, harvesting and crop growth and also cause a reduction in the available water capacity of a soil. A high stone content can also increase production costs by causing extra wear and tear to implements and tyres.

ADAS Ref: 4203/063/95 MAFF Ref: EL 42/228

Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1972), Sheet No. 317, Chichester, 1:63,360 Series (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), Climatological Data for Agricultural Land Classification.

Soil Survey of Great Britain (1967), Sheet SU70 & SU80, Chichester, 1:25,000 and accompanying bulletin 'Soils of the West Sussex Coastal Plain'.

Soil Survey of England and Wales (1983), Sheet 6, Soils of South East England, 1:250,000 and accompanying legend.

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
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.
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&#}x27;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 LEY: Ley Grass RGR: Rough Grazing SCR: Scrub CFW: Coniferous Woodland DCW: Deciduous Wood

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

HRT: Horticultural Crops

- 3. GRDNT: Gradient as estimated or measured by a hand-held optical clinometer.
- 4. GLEY/SPL: Depth in centimetres (cm) to gleying and/or slowly permeable layers.
- 5. AP (WHEAT/POTS): Crop-adjusted available water capacity.
- 6. MB (WHEAT/POTS): Moisture Balance. (Crop adjusted AP crop adjusted MD)
- 7. **DRT**: Best grade according to soil droughtiness.
- 8. If any of the following factors are considered significant, 'Y' will be entered in the relevant column.

MREL: Microrelief limitation FLOOD: Flood risk EROSN: Soil erosion risk EXP: Exposure limitation FROST: Frost prone DIST: Disturbed land

CHEM: Chemical limitation

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

OC: Overall Climate AE: Aspect EX: Exposure
FR: Frost Risk GR: Gradient MR: Microrelief
FL: Flood Risk TX: Topsoil Texture DP: Soil Depth
CH: Chemical WE: Wetness WK: Workability

DR: Drought **ER**: Erosion Risk **WD**: Soil Wetness/Droughtiness

ST: Topsoil Stoniness

Soil Pits and Auger Borings

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

S:SandLS:Loamy SandSL:Sandy LoamSZL:Sandy Silt LoamCL:Clay LoamZCL:Silty Clay Loam

ZL: Silt Loam SCL: Sandy Clay Loam C: Clay

Sandy Clay **ZC**: Silty Clay OL: Organic Loam SC: LP: Loamy Peat **P**: Peat SP: Sandy Peat MZ: Marine Light Silts PS: Peaty Sand Peaty Loam PL:

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

CH: chalk FSST: soft, fine grained sandstone

ZR: soft, argillaceous, or silty rocks GH: gravel with non-porous (hard) stones
MSST: soft, medium grained sandstone GS: gravel with porous (soft) stones

SI: soft weathered igneous/metamorphic rock

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

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

degree of development WK: weakly developed

MD: moderately developed

ST: strongly developed

ped size F: fine

M: medium VC: very coarse C: coarse

ped shape : single grain M: massive

GR: granular

AB: angular blocky

SAB: sub-angular blocky

PR: prismatic

PL: platy

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

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

EM: extremely firm EH: extremely hard

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

11. POR: Soil porosity. If a soil horizon has less than 0.5% biopores >0.5 mm, a 'Y' will appear in this column.

12. IMP: If the profile is impenetrable to rooting a 'Y' will appear in this column at the appropiate horizon.

13. SPL: Slowly permeable layer. If the soil horizon is slowly permeable a 'Y' will appear in this column.

14. CALC: If the soil horizon is calcareous, a 'Y' will appear in this column.

15. Other notations

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

MBW: moisture balance, wheat MBP: moisture balance, potatoes SOIL PIT DESCRIPTION

Site Name: 1 SUSSEX MINS SITE B

Pit Number: 1P

Grid Reference: SU83200780

Average Annual Rainfall: 837 mm

Accumulated Temperature: 1515 degree days

Field Capacity Level : 175 days Land Use : Maize Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 32	MZCL	10YR42 43	14	18	HR					
32- 45	MZCL	10YR44 00	0	30	HR				М	
45-120	MZCL	10YR44 00	0	50	HR				, M	

Cm

Wetness Grade : 1

Wetness Class : I

Gleying : SPL

Drought Grade : 3A

APW: 108mm MBW: -3 mm

APP: 089mm MBP: -16 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name: 1 SUSSEX MINS SITE B Pit Number: 2P

Grid Reference: SU83500790 Average Annual Rainfall: 837 mm

Accumulated Temperature: 1515 degree days

Field Capacity Level : 175 days
Land Use : Wheat
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 30	MZCL	10YR42 00	11	20	HR					
30- 53	MZCL	10YR44 00	0	20	HR				М	
53- 78	HZCL	10YR53 54	0	25	HR	F			М	
78-120	HZCL	10YR54 00	0	0		С	MDCSAB	FR	М	

Wetness Grade : 1 Wetness Class : I

Gleying : 53 cm SPL : cm

Drought Grade : 2 APW : 137mm MBW : 26 mm

APP: 100mm MBP: -5 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Topsoil Stoniness

page 1

ram: ALC012 LIST OF BORINGS HEADERS 20/07/95 1 SUSSEX MINS SITE B

SA	LE	ASPECT				WETI	NESS	-WH	EAT-	-PC	TS-	м. і	REL	EROSI	ı FR	0ST	CHEM	ALC	
ΝО.	GRID REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D		EXP	DIST	LIMIT		COMMENTS
•	SU8320078	. M75				1	1	108	2	89	-16	3A					DR	ЗА	
1	SU8310079					1	1	100	-3 0	09	-10	SA					ST		TOPSOIL STONE
2	SU8310079					1	1	53	-58	E3	-52	4					DR	3B	IMPOSTON
-	SU8350079					1	1	137		100	-5	2					ST		TOPSOIL STONE
	SU8320079					1	1	,,,	0	.00	0	_					ST		TOPSOIL STONE
_	300320073	, 1126				•	•		Ū		Ū						Q1	30	TO GOTE STORE
3	SU8300080	CER				1	1	53	-58	53	-52	4					DR	3В	IMPQSTON
	SU8330079) MZE				1	1		0		0						ST	3B	TOPSOIL STONE
40	SU8330080) MZE				1	1		0		0						ST	3A	
5	SU8340080) MZE				1	1	68	-43	68	-37	38					DR	3B	IMP 40
	SU8336079	9 MZE				1	1		0		0						ST	3B	TOPSOIL STONE
65	SU8346079	9 CER				1	1	39	-72	39	-66	4					DR	3B	
•	SU8340080) MZE				1	1	54	-57	54	-51	4					DR	3B	IMP 30
	SU8350080	THW C				1	1		0		0						ST	ЗА	TOPSOIL STONE
9	SU8300079) MZE				1	1		0		0						ST	3B	TOPSOIL STONE
13	SU8340079	THW C				1	1		0		0						ST	ЗА	150 SEE 2P
1	SU8350079	THW C				1	1		0		0						ST	3 A	160 SEE 2P
15	SU8360079	THW C				1	1		0		0						ST	ЗА	150 SEE 2P
ī	SU8310078	O MZE				1	1	59	-52	59	-46	4					DR	38	IMP 40
1	SU8320078	D MZE				1	1	59	-52	59	-46	4					DR	3B	IMP 40
19	SU8330078	O MZE				1	1	50	-61	50	-55	4					ST	3В	TOPSOIL STONE
z	SU8340078	O MZE				1	1	46	-65	46	-59	4					DR	3B	IMP 30
2	SU8350078	O SAS				1	1	37	-74	37	-68	4					ST	3B	TOPSOIL STONE
27	SU8350076	O SAS				1	1	32	-79	32	-73	4					ST	3B	TOPSOIL STONE

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				M	OTTLES		PED		_		-ST	ONES-		STRUCT/	SUBS				
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GL	ΕY >	>2 >	6	LITH	тот	CONSIST	STR POR	IMP	SPL	CALC	
1P	0-32	mzcl	10YR42 43						1	14	0	HR	18 .			•			
	32-45	mzcl	10YR44 00							0	0	HR	30		M				
_	45-120	mzcl	10YR44 00							0	0	HR	50		М				
18	0-25	mzcl	10YR43 00						2	20	0	HR	35						
2 2	0-35	mzcl	10YR43 00							12	0	HR	22						
_{2P}	0~30	mzcl	10YR42 00							11	0	HR	20						
	30-53	mzcl	10YR44 00							0	0	HR	20		М				
•	53-78	hzcl	10YR53 54	10YR56	00 F		00MN00	00 '	Ý	0	0	HR	25		M				
	78-120	hzol	10YR54 00	10YR56	00 C			;	S	0	0		0	MDCSAB	FR M				
28	0-25	mzcl	10YR43 00						•	18	0	HR	28						
3	0-35	mzcl	10YR43 00							12	0	HR	22						
38	0-25	mzc1	10YR43 00							18	0	HR	28						
4\$	0-25	mz¢l	10YR43 00							8	0	HR	18						
5	0-30	zl	10YR43 00							12	Λ	μр	22						
3	30-40	mzcl	10YR43 00									HR	20		М				
_	30-40	MZG I	101843 00							Ü	٠	TIK	20		11				
58	0-25	mzcl	10YR43 00							20	0	HR	30						
6S	0-25	mzcl	10YR43 00							8	0	HR	18						
7	0-30	zl	10YR43 00							12	0	HR	22						
8	0-28	mzcl	10YR41 42							13	0	HR	20						
	28-45	mz¢1	10YR53 54									HR	10		M				
•	45-65	mzcl	10YR53 00	10YR58	3 00 C				Y	0	0	HR	20		M				
9	0-35	mz¢l	10YR43 00							18	0	HR	28						
13	0~30	mzc1	10YR42 00							15	Ö	HR	25						
	30-50	mzcl	10YR54 00							0		HŘ	20		М				
14	0-28	mzcl	10YR42 00							11	0	HR	20						
_	28-45	mzcl	10YR54 00							0		HR	10		М				
	45-60	mzcl	10YR53 52	10YR58	3 00 M		00MN00	00	Υ	0		HR	25		М				
												•							
15	0-25	mz¢1	10YR42 00									HR	15						
I	25-50	mzc1	10YR54 00							0	0	HR	20		М				
17	0-30	mzcl	10YR43 00							12	n	HR	22						
_	30-40	mzc1	10YR42 00									HR	22		М				
	55 70	ZV .	,							•	•				.,				

					MOTTLES	S	PED		S	TONES-		STRUCT/	SUBS				
AMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY >2	>6	LITH	TOT	CONSIST	STR 1	POR	IMP	SPL	CALC
8	0-30	mzcl	10YR43 00					14	0	HR	18						
	30-40	mzcl	10YR44 00					0	0	HR	30		М				
19	0-30	mzcl	10YR44 00					18	0	HR	25						
	30~35	mzcl	10YR54 00					0	0	HR	30		M				
20	0-30	mzcl	10YR44 00					13	0	HR	20						
₹1	0-25	mzcl	10YR42 00					23	0	HR	35						
	25-30	mzcl	10YR54 00					0	0	HR	40		М				
27	0-25	mzcl	10YR42 00					23	0	HR	35						