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Canterbury District Local Plan
HBA 7, Land near Elm Court Farm.
Agricultural Land Classification
ALC Map and Report
June 1995

AGRICULTURAL LAND CLASSIFICATION, SUMMARY REPORT

CANTERBURY DISTRICT LOCAL PLAN HBA 7: LAND NEAR ELM COURT FARM.

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 the Canterbury district of Kent. The work forms part of MAFF's statutory input to the Canterbury District Local Plan.
- 1.2 The site comprises approximately 50 hectares of land to the north of the railway line to the south of Herne Bay in Kent. An additional area of land, totalling approximately 16 hectares, was surveyed to the west of the local plan site in order to provide information on land quality up to the boundary of a previous ALC survey. An Agricultural Land Classification (ALC) survey was carried out during June 1995. The survey was undertaken at a detailed level of approximately one boring per hectare. A total of 50 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.
- 1.3 The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS.
- 1.4 At the time of survey the agricultural land on the site comprised set aside land, cereals, permanent grassland and recently cultivated land. The areas mapped as urban include hard core tracks. The area marked as non-agricultural includes an earth track, and an area of woodland has also been mapped in the south-east of the site.
- 1.5 The distribution of grades and subgrades is shown on the attached ALC map and the areas and extent are given in 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 for Local Plan site.

Grade	Area (ha)	% of Site	% of Agricultural Land
2	4.6	9.0	9.4
3a	31.6	62.3	64.8
3b	12.5	24.7	<u>25.8</u>
Urban	1.0	2.0	100% (48.7 ha.)
Non-agricultural	0.4	0.7	
Woodland	<u>0.6</u>	<u>1.1</u>	
Total area of site	50.7	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 majority of the agricultural land on the site has been classified as Subgrade 3a, good quality land, with soil wetness as the main limitation. Profiles within this mapping unit typically comprise medium silty clay loam topsoils resting upon clay subsoils. The clay subsoils are poorly structured and slowly permeable causing a drainage impedance. soils tend to show signs of a wetness imperfection in the form of gleying from either the topsoil or upper subsoil. Therefore these profiles are assigned to Wetness Class III with a resultant classification of Subgrade 3a. Moderate quality Subgrade 3b land has been mapped on the site due to a more significant wetness limitation. Within this mapping unit, heavy silty clay loam topsoils rest upon slowly permeable clay subsoils. Similarly, these soils equate to Wetness Class III yet the existence of heavier textured topsoils means that the effects of the drainage imperfection upon agricultural use are more severe. This results in a classification of Subgrade 3b. Poorly drained wet soils can inhibit plant growth and rooting and may be more susceptible to structural damage through trafficking by agricultural machinery or poaching by grazing livestock.
- 1.8 An area of land towards the centre of the site has been classified as Grade 2, very good quality land, with soil wetness and droughtiness as the main limitations. Soil profiles typically comprise medium silty clay loam topsoils and upper subsoils overlying heavy silty clay loam lower subsoils which occasionally become lighter with depth. Profiles are commonly gleyed from below the topsoil and are assigned to Wetness Class II with a subsequent classification of Grade 2 due to this slight wetness limitation. Furthermore, the interaction between soil properties such as texture and structure and the local climatic regime, which is relatively dry in regional context, means that there is a slight restriction on the amount of profile available water for plant growth. This can affect the level and consistency of crop yields such that a classification of Grade 2 is appropriate.

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 low in a regional context, and therefore soil wetness problems 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	TR 203 677
Altitude (m)	35
Accumulated Temperature	1451
(Day °C, Jan-June)	
Average Annual Rainfall (mm)	583
Field Capacity (days)	119
Moisture Deficit, Wheat (mm)	127
Moisture Deficit, Potatoes (mm)	126
Overall Climatic Grade	1

3. Relief

3.1 The site slopes very gently down to the east, lying at an altitude of 30-35m.

4. Geology and Soils

- 4.1 The published geological map (BGS, 1974) shows the majority of the site to be underlain by Head Brickearth. An area of London Clay is mapped towards the east of the site, alongside small areas of Head Gravel.
- 4.2 The published Soil Survey map (SSEW, 1983) shows the soils on the site to comprise two associations. Towards the west of the site soils of the Park Gate association are mapped, these are described as 'deep stoneless silty soils variably affected by groundwater' (SSEW 1983). Towards the east of the site soils of the Wickham 4 association are mapped, these are described as 'slowly permeable seasonally waterlogged fine loamy over clayey and fine silty over clayey oils associated with similar clayey soils.'
- 4.3 Detailed field examination found the soils on the site to be silty and clayey with slowly permeable subsoils at variable depths. Soil drainage imperfections were found to be more serious towards the east of the site.

5. Agricultural Land Classification

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

Grade 2

5.2 Very good quality land has been mapped towards the central part of the site, where soils are subject to both a slight wetness and droughtiness limitation. Medium silty clay loam topsoils rest upon subsoils which tend to be of a lighter texture than elsewhere on the site. Soil inspection pit no. 4 is typical of the soils within this mapping unit. At the location of the pit, a medium silty clay loam topsoil was found to overlie a similar textured upper subsoil extending to 50 cm. A heavy silty clay loam lower subsoil was found to extend to a depth of 80cm where textures become lighter comprising a medium silty clay loam extending to 120cm. The profile shows evidence of soil wetness in the form of gleying

from the upper subsoil. Subsoils were found to be moderately structured with good porosity and, therefore, permeable. Evidence of a slight wetness imperfection means that these soils are assigned to Wetness Class II with a resultant classification of Grade 2. Furthermore, given the local climatic regime, a combination of soil textures and structures means that there is a slight restriction upon the amount of profile available water for crop growth which can affect the level and consistency of crop yields. Consequently, a classification of Grade 2 due to this slight droughtiness limitation is also appropriate. This Grade 2 mapping unit does not match exactly with an adjacent survey (ADAS Ref: 2002/009/93), this may be attributed to the presence of the railway cutting.

Subgrade 3a

5.3 Good quality land is mapped across the majority of the site, where soils show signs of a moderate wetness limitation. Medium silty clay loam topsoils resting upon clay subsoils were observed across much of this mapping unit. However, a number of soil observations proved impenetrable to the auger below the topsoil. A subsequent soil inspection pit (Pit 1) was dug to investigate the nature of the impenetrability. This found the cause to be the relatively dry state of the soils at the time of survey. At the location of this pit, a medium silty clay loam topsoil was found to overlie a clay subsoil commencing at 26cm. A further soil inspection pit (Pit 2) dug in this mapping unit found a medium silty clay loam topsoil overlying a heavy silty clay loam upper subsoil which in turn rests upon a clay lower subsoil commencing at 45cm. At the location of both pits, profiles show signs of imperfect drainage in the form of gleying from the upper subsoil. Furthermore, the clay subsoils were found to be poorly structured with low porosity and therefore may be classified as slowly permeable causing a moderate drainage impedance. Such drainage characteristics equate the soils to Wetness Class III which, in combination with the local climatic regime and the topsoil texture, gives a resultant classification of Subgrade 3a.

Subgrade 3b

Moderate quality land has been mapped towards the east of the site, where soils are derived from the London Clay. Within this mapping unit soil profiles typically comprise heavy silty clay loam topsoils resting upon gleyed clay subsoils. The soil inspection pit dug in this mapping unit (pit no. 4) found the clay subsoil to be poorly structured with low porosity, and is consequently slowly permeable. Similarly, such drainage characteristics equate these soils to Wetness Class III. Yet the presence of a heavy silty clay loam topsoil, with a higher clay content and therefore more difficult to work, means that a classification of Subgrade 3b is appropriate. Poorly drained wet soils can inhibit plant rooting and development and may be more susceptible to structural damage through trafficking by agricultural machinery or poaching by grazing livestock.

ADAS Ref: 2002/071/95 MAFF Ref: EL 20/642 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1974), Sheet No. 273, Faversham, 1:50,000 Series (solid and 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 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 vield 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 Grand Control of the Control o

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
π	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.

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
POT: Potatoes SBT: Sugar Beet FCD: Fodder Crops

LIN: Linseed FRT: Soft and Top Fruit FLW: Fallow

PGR: Permanent PastureLEY: 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: 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 ClayZC:Silty ClayOL:Organic LoamP:PeatSP:Sandy PeatLP: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 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).

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 : CANTERBURY LP HBA 7 Pit Number : 1P

Grid Reference: TR19806760 Average Annual Rainfall: 583 mm

Accumulated Temperature: 1451 degree days

Field Capacity Level : 119 days
Land Use : Set-aside
Slope and Aspect : degrees

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE LITH MOTTLES STRUCTURE CONSIST SUBSTRUCTURE CALC

0- 26 MZCL 10YR42 00 6 10 HR F

26-120 C 10YR53 52 0 3 HR M MDVCAB VM P

Wetness Grade: 3A Wetness Class : III

Gleying :026 cm SPL :026 cm

Drought Grade : 3A APW : 123mm MBW : -4 mm

APP: 100mm MBP: -26 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Soil Wetness/Droughtiness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LP HBA 7 Pit Number : 2P

Grid Reference: TR20506770 Average Annual Rainfall: 583 mm

Accumulated Temperature: 1451 degree days

Field Capacity Level : 119 days
Land Use : Ploughed
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 28	MZCL	10YR42 00	2	4	HR	F				
28- 45	HZCL	10YR52 00	0	0		С	MDCSAB	FR	M	
45- 75	С	10YR62 00	0	0		С	WKCSAB	FM	Р	
75-120	С	10YR53 63	0	0		M	MDCAB	FM	Р	

Wetness Grade : 3A Wetness Class : III

Gleying :028 cm SPL :045 cm

Drought Grade: 3A APW: 136mm MBW: 9 mm

APP: 113mm MBP: -13 mm

FINAL ALC GRADE : 3A

MAIN LIMITATION : Soil Wetness/Droughtiness

SOIL PIT DESCRIPTION

Site Name : CANTERBURY LP HBA 7 Pit Number : 3P

Grid Reference: TR20506780 Average Annual Rainfall: 583 mm

Accumulated Temperature: 1451 degree days

Field Capacity Level : 119 days
Land Use : Barley
Slope and Aspect : degrees

HORIZON TEXTURE COLOUR STONES >2 TOT.STONE LITH MOTTLES STRUCTURE CONSIST SUBSTRUCTURE CALC

0- 29 HZCL 10YR42 00 2 3 HR F

29- 65 C 10YR62 00 0 0 M MDCAB FM P

Wetness Grade: 3B Wetness Class: III

Gleying :029 cm

SPL : 029 cm

Drought Grade: APW: 000mm MBW: 0 mm

APP: 000mm MBP: 0 mm

FINAL ALC GRADE : 3B
MAIN LIMITATION : Wetness

\$OIL PIT DESCRIPTION

Site Name : CANTERBURY LP HBA 7 Pit Number : 4P

Grid Reference: TR20206760 Average Annual Rainfall: 583 mm

Accumulated Temperature: 1451 degree days

Field Capacity Level : 119 days
Land Use : Ploughed
Slope and Aspect : degrees

HORIZON	TEXTURE	COLOUR	STONES >2	TOT.STONE	LITH	MOTTLES	STRUCTURE	CONSIST	SUBSTRUCTURE	CALC
0- 27	MZCL	10YR42 00	0	2	HR					
27- 50	MZCL	10YR53 00	0	0		С	MDCSAB	FR	М	
50- 80	HZCL	10YR53 00	0	0		С	MDCSAB	FR	М	
80-120	MZCL	10YR63 00	0	0		С	MDCSAB	FR	M	

Wetness Grade : 2 Wetness Class : II

Gleying :027 cm SPL : No SPL

Drought Grade : 2 APW : 159mm MBW : 32 mm

APP: 123mm MBP: -3 mm

FINAL ALC GRADE : 2

MAIN LIMITATION : Soil Wetness/Droughtiness

No. GRID REF USE	SAMP	LE	ASPECT				WETI	NESS	-WH	EAT~	-P0	TS-	1	M. REL	EROSN	FROST	CHEM	ALÇ	
2 TR20006790 LHT	NO.	GRID REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FL00D			LIMIT		COMMENTS
2 TR20006790 LHT																			
2P TEGISSISTO PLO						026													
3 TRZ2006790 LHT																			135DRY SEETP
3P TR20506780 BAR			· - -																01.414.40
4 TR20206790 HHT													3A						CLAY 48
## TRAZOGOFGO PLO A	3P	TR20506780	BAR		029 (029	3	3B	000	0	000	0					WE	38	
## TRAZOGOFGO PLO A	4	TDOOOGTOO	LtuT		020	060	2	2	106	21	111	15	20				DD	24	100
5 TR20306790 Limit						000													160
6 TR19906790 SAS			· •																TANDRY SEE1P
7 TR19906780 SAS 000 2 2 2 053 3-74 053 -73 4 ME 3A 1300RY SEE1P 8 TR20006780 SAS 027 040 3 3 3A 000 0 000 0						027							•						1100111100111
8 TR20006780 SAS						UL.							4						I30DRY SEE1P
9 TR20106780 WHT	•						_	_		, ,		, -	•						
10 TR20205780 WHT	8	TR20006780	SAS		027	040	3	3A	000	0	000	0					WE	ЗА	
11 TR20306780 CER	9	TR20106780	WHT		030		1	1	153	26	115	-11	ЗА				DR	3 A	POTS LIM
12 TR20406780 CER	10	TR20206780	WHT		025		2	2	099	-28	108	-18	3B				DR	ЗА	IMP65DRY
13 TR20506780 CER	11	TR20306780	CER		025	025	3	3B	124	-3	101	-25	ЗА				WE	38	
14 TR20606780 PLO	12	TR20406780	CER		025	025	3	3B	000	0	000	0					WE	38	
14 TR20606780 PLO																			
15 TR20706780 PLO	13	TR20506780	CER		025 (025	3	3B	000	0	000	0					WE	3B	
16 TR19706770 PGR	14	TR20606780	PLO		025 (025	3	3B	000	0	000	0					WE	3B	
17 TR19806770 PGR	15	TR20706780	PL0		000	028	3	3B	000	0	000	0					WE	38	
18 TR19906770 PGR	16	TR19706770	PGR		030 (045	3	3A	099	-28	111	-15	3B					3A	
19 TR20006770 PGR	17	TR19806770	PGR		026 (026	3	3A	089	-38	099	-27	3B				WE	3A	
19 TR20006770 PGR																			
20 TR20106770 WHT																			130DRY SEE1P
21 TR20206770 CER																			
22 TR20306770 CER																			DOTO 1 TH
23 TR20406770 CER																			
24 TR20506770 PLO	22	TR20306770	CER		030 (048	3	3A	134	,	112	-14	JA				WE	3A	POIS LIM
24 TR20506770 PLO	23	TP20/06770	CED		025 (055	3	37	104	-23	112	-14	35				WF	34	175STDDV
25 TR20606770 PLO													30						17301011
26 TR20706770 PLO													34						POTS LIM
27 TR19506760 PGR			=										J A						
28 TR19606760 PGR			_				_					_							. 2.10.7000
29 TR19706760 PGR 027 027 3 3 3A 128 1 104 -22 3A WE 3A 30 TR19806760 PGR 000 1 1 0 044 -83 044 -82 4 WE 3A 125DRY SEE1P 31 TR19906760 PGR 000 1 1 0 067 -60 067 -59 4 WE 3A 140DRY SEE1P 33 TR20106760 PL0 030 030 3 3 3A 130 3 107 -19 3A WE 3A 34 TR20206760 PL0 028 2 2 159 32 123 -3 2 WD 2 35 TR20306760 PL0 029 029 3 3A 094 -33 106 -20 3B WE 3A 36 TR20406760 PL0 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PL0 030 030 3 3B 000 0 000 0 WE 3B 38 TR20606760 PL0 030 055 3 3B 140 13 118 -8 2 WE 3B							Ū	•		·		·							
29 TR19706760 PGR 027 027 3 3 3A 128 1 104 -22 3A WE 3A 30 TR19806760 PGR 000 1 1 0 044 -83 044 -82 4 WE 3A 125DRY SEE1P 31 TR19906760 PGR 000 1 1 0 067 -60 067 -59 4 WE 3A 140DRY SEE1P 33 TR20106760 PL0 030 030 3 3 3A 130 3 107 -19 3A WE 3A 34 TR20206760 PL0 028 2 2 159 32 123 -3 2 WD 2 35 TR20306760 PL0 029 029 3 3A 094 -33 106 -20 3B WE 3A 36 TR20406760 PL0 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PL0 030 030 3 3B 000 0 000 0 WE 3B 38 TR20606760 PL0 030 055 3 3B 140 13 118 -8 2 WE 3B	28	TR19606760	PGR		000	029	3	3A	096	-31	108	-18	3B				WE	ЗА	
30 TR19806760 PGR	29	TR19706760	PGR		027 (027		ЗА	128	1	104	-22	ЗА				WE	ЗА	
33 TR20106760 PLO 030 030 3 3A 130 3 107 -19 3A WE 3A 34 TR20206760 PLO 028 2 2 159 32 123 -3 2 WD 2 35 TR20306760 PLO 029 029 3 3A 094 -33 106 -20 3B WE 3A 36 TR20406760 PLO 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PLO 030 030 3 3B 000 0 000 0 WE 3B 38 TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	30	TR19806760	PGR		000		1	1	044	-83	044	-82	4				WE	3A	I25DRY SEE1P
34 TR20206760 PLO 028 2 2 159 32 123 -3 2 WD 2 35 TR20306760 PLO 029 029 3 3A 094 -33 106 -20 3B WE 3A 36 TR20406760 PLO 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PLO 030 030 3 3B 000 0 000 0 WE 3B 38 TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	31	TR19906760	PGR		000		1	1	067	-60	067	-59	4				WE	ЗА	I40DRY SEE1P
35 TR20306760 PLO 029 029 3 3A 094 -33 106 -20 3B WE 3A 3A TR20406760 PLO 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PLO 030 030 3 3B 000 0 000 0 WE 3B 3B TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 3B 39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	33	TR20106760	PLO		030 (030	3	3A	130	3	107	-19	3A				WE	3A	
35 TR20306760 PLO 029 029 3 3A 094 -33 106 -20 3B WE 3A 36 TR20406760 PLO 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PLO 030 030 3 3B 000 0 000 0 WE 3B 38 TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B																			
36 TR20406760 PLO 027 040 3 3A 149 22 111 -15 3A WE 3A 37 TR20506760 PLO 030 030 3 3B 000 0 000 0 WE 3B 38 TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 38 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	34	TR20206760	PLO		028		2	2	159	32	123	-3	2				WD	2	
37 TR20506760 PLO 030 030 3 3B 000 0 000 0 WE 3B 3B TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 3B 39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	35	TR20306760	PLO		029 (029	3	ЗА	094	-33	106	-20	3B				WE	3A	
38 TR20606760 PLO 030 055 3 3B 140 13 118 -8 2 WE 3B 39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	36	TR20406760	PL0		027 (040	3	3A	149	22	111	-15	3 A				WE	3A	
39 TR20706760 PLO 025 025 3 3B 000 0 000 0 WE 3B	37	TR20506760	PL0		030 (030	3	3B	000	0	000	0					WE	38	
	38	TR20606760	PLO		030 (055	3	3B	140	13	118	-8	2				WE	3B	
																		_	
40 TR20806760 WHT 000 1 1 042 -85 042 -84 4 DR 4 I25	39					025													
	40	TR20806760	WHT		000		1	1	042	-85	042	-84	4				DR	4	125

program: ALC012 LIST OF BORINGS HEADERS 07/09/95 CANTERBURY LP HBA 7 page 2

SAMP	LE	ASPECT				WET	NESS	-WH	EAT-	-P0	TS-	м.	REL	EROSN	FRO	ST	CHEM	ALC	
Ю.	GRID REF	USE	GRDNT	GLEY	/ SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	E)	P	DIST	LIMIT		COMMENTS
41	TR19506750	DCD		030	บรถ	3	3A	132	5	109	-17	34					WD	ЗА	
42	TR19606750	-		035		3	3A	131	_	106	-20	3A					WE	3A	
43	TR19706750			000		3	3B	000		000	-20	JA					WE	3B	
						-			-		_						WE	3B	
44	TR19806750			000		3	3B	000	_	000	0						_		
45	TR19906750	BAR		027	027	3	3A	083	-44	088	-38	3B					WE	ЗА	
46	TR20006750	WHT		030	030	3	3A	094	-33	106	-20	3B					WE	3A	
47	TR20106750	PLO		045	045	2	2	137	10	114	-12	ЗА					DR	3A	
48	TR20206750	PL0		045		1	1	160	33	124	-2	2					DR	2	
49	TR20306750	PLO		027	065	2	2	153	26	121	-5	2					WD	2	
50	TR20406750	PLO		030	030	3	3A	151	24	115	-11	3A					ME	3A	
51	TR20506750	PLO		029	080	3	3A	000	0	000	0						WE	3A	

					MOTTL	.ES	Р	ED			-S1	ONES-		STRUCT/	, ,	SUBS	;			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL			CONT C							•				IMP	SPL	CALC
1P	0-26	mzcl	10YR42 0	10YR5	6 00	F				6	0	HR	10							
	26-120	c	10YR53 5	2 10YR6	8 51	М			Υ	0	0	HR	3	MDVCAB	VM	Ρ	Υ		Υ	
2	0-30	mc1	10YR43 0)								HR	5							
	30-35	mcl	10YR44 0	0 10YR5	9 00	С			S	0	0	HR	5			М				
00	0.00	_				_				_	^	u B								
20	0-28	mzcl	10YR42 0						.,			HR	4	MD0040						
	28-45 45-75	hzc1	10YR52 0				ООМ	N00 (Υ	0	0			MDCSAB WKCSAB			v		Υ	
	75-120	c	101R52 0					NOO (0			MDCAB					Y	
	75-120	C	101833 0	3 10110	0 / 1	''	001,	1100	,	٧	٠		Ü	TIDOAD	•••	•	•		•	
3	0-30	mcl	10YR43 0	0						0	0	HR	4							Υ
	30-45	mcl .	25Y 62 0		B 00	М	00M	NO0 (00 Y			HR	4			м				
	45-120	С	35Y 62 0	0 10YR5	8 61	М	OOM	NO0 (OO Y	0	0		0			Р			Υ	
3P	0-29	hzcl	10YR42 0	0 1 <mark>0</mark> YR5	6 00	F				2	0	HR	3							
	29-65	С	10YR62 0	0 10YR6	B 71	М			Υ	0	0		0	MDCAB	FΜ	Р	Υ		Υ	
4	0-28	mc1	10YR43 0							1		HR	5							
	28-40	mcl	10YR53 0						Υ	0		HR	5			М				
	40-60	hc1	10YR52 0						Υ	-			0			M				
	60-80	С	10YR52 0	0 10YR6	B 51	М	OOM	N00 (00 Y	0	0	HR	5			Р			Y	
40	0 07		100043 0	^						0		110	2							
42	0-27 27-50	mzcl mzcl	10YR42 0 10YR53 0		6 00	_	ООМ	N00 (n v		0	HR	2	MDCSAB	ED	м				
	50-80	hzcl	101R53 0				0011	NOU (ν γ	_	0		0	MDCSAB						
	80-120	mzcl	10YR63 0				OOM	ו מסמ	00 Y	_	0		0	MDCSAB						
	00 120	1,1201	1011100	o rorne		•				·	·		•	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		• •				
5	0-30	mcl	10YR43 0	0						1	0	HR	5							
	30-40	mcl	10YR53 0	0 1 0 YR5	6 00	С	00M	NO0 (00 Y	0	0	HR	5			М				
6	0-27	mzcl	10YR42 0	0 10YR5	B 00	C			Υ	4	0	HR	6							
	27-70	С	1 0 YR 5 3 5	2 10YR6	8 71	М	00M	N00 (OO Y	0	0		0			Р			Υ	
						_				_	_	_								
7	0-30	mzcl	10YR42 0	D 10YR5	6 00	C			Υ	5	0	HR	8							
•	0.07	_	10,1010 1	_						_	_		^							
8	0-27	mzcl	10YR42 4			_			v	0		HR	2			ы				
	27-40 40-70	mzcl	10YR62 0 10YR53 0						Y	0	0		0			M P			Υ	
	40-70	С	IUTK55 U	U IUYKO	5 / 1	M			7	U	U		U			۲			ī	
9	0-30	mc1	10YR43 0)						0	0	HR	4							
•	30-50	mc1	10YR44 0		8 00	С			s	ō		HR	2			м				
	50-120	hc1	10YR53 0				00M	N O O (0	0		0			М				
10	0-25	mzcl	10YR43 0	0						0	0	HR	3							
	25-50	mc1	10YR53 0	0 10YR6	B 51	M	00M	N00 (Y 00	0	0	HR	4			M				
	50-65	hc1	10YR52 0	0 10YR6	8 51	М	00M	N00 (90 Y	0	0	HR	2			M				

				1	10TTLI	ES	PED				-S1	ONES	_	STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR									-		-	STR POR	IMP :	SPL	CALC
11	0-25	hcl	10YR42 00							0	n	HR	5					
,,	25-60	C	10YR53 00	10VR5/	5 51 7	м	00MN00	nn	v	ō		1115	0		Р		Υ	
	60-120		10YR53 00				00MN00			0		μр	2		P P		Ÿ	
	00-120	C	101833 00	TOTRO	3 31 1	7	OUPEROU	00	•	Ü	Ü	nk	٤		•		•	
12	0-25	С	10YR42 00							0	0	HR	5					
	25-60	C	10YR53 00	10YR50	5 51 1	Ч			Υ	0	0		0		Р		Υ	
13	0-25	С	10YR42 00							0	0	HR	5					
	25-60	С	10YR62 00	10YR68	3 61 1	4	00MN00	00	Υ	0	0	HR	2		Р		Υ	
14	0-25	hzcl	10YR42 00							2	٥	пD	5					
14	25-60		107R42 00	10006		4			Υ	0			2		P		Υ	
	25-00	С	101R02 52	TOTRO	3 00 1	-1			ı	U	U	пк	۷		r		'	
15	0-28	hc1	10YR42 00	10YR56	5 00 (0			Υ	2	0	HŘ	5					
	28-60	С	10YR62 00	10YR68	3 00 8	4			Υ	0	0	HR	2		P		Υ	
16	0-30	mzcl	10YR53 00							0	0	HR	5					
	30-45	hzcl	10YR72 00	10YR68	3 71 8	4			Υ	0	0	HR	5		М			
	45-70	С	10YR62 00	10YR68	3 71 <i>i</i>	4			Υ	0	0		0		Р		Υ	
17	0-26	mzcl	10YR53 00							0	0	HR	5					
	26-50	С	10YR62 00	10YR6	3 71 (С			Υ	0	0	HR	5		Р		Υ	
	50-70	С	10YR62 00	10YR6	3 71 1	М	00MN00	00	Υ	0	0	HR	15		Р		Y	
18	0-30	mzcl	10YR54 00							_	0	HR	6					
10	0-30	111201	101K34 00							3	٠	ПК	Ü					
19	0-30	mzcl	10YR53 00							0	0		0					
	30-45	mzcl	10YR72 00	10YR6	3 00 6	С			Υ	0	0	HR	10		М			
	45-65	hzcl	10YR72 00	10YR6	3 71 (С			Υ	0	0		0		М			
	65-120	С	10YR62 00	10YR6	3 71 1	М			Υ	0	0		0		Р		Υ	
20	0-28	mzcl	10YR43 00							2	a	HR	5					
	28-50	mzcl	10YR53 00	10YR5	3 00 1	М			Υ	0			0		М			
	50-80	hzcl	10YR53 00						Υ	0	0		0		М			
	80-120		10YR53 00				00MN00						0		Р		γ	
21	0.00	- 9	10/042 00							_	^	IID.	_					
21	0-28	mzc1	10YR43 00	10000		^			v			HR	5		м			
	28-55	hzcl	10YR63 00						Y			HR	2		M		Υ	
	55–120	С	10YR63 00	TUYKO	3 61 1	ๆ			Υ	0	U		0		P		T	
22	0-30	mzcl	10YR43 00							2	Ö	HR	5					
	30-48	mzcl	10YR53 00	10YR56	5 00 (0			Υ	0	0	HR	5		M			
	48-120	С	25Y 62 00	10YR68	3 61 I	4			Y	0	0	HR	2		Р		Y	
23	0-25	mzc1	10YR42 00							2	0	HR	5					
	25-55	hzcl	10YR52 00	75YR56	5 00 1	4			Υ	0			5		м			
	55-75	c	10YR52 53						Υ	0			5		P		Υ	
	- · ·	~		, _ , , , ,	· •				•	-	-		-		-			

					MOTTL	ES	PFD		_		-STO)NFS	- STRUCT/	SUBS	
SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN								•		IMP SPL CALC
24	0-30	mzcl	10YR42 00								0 F				
	30-80	hzcl	10YR52 00					,	′		0 F	IR 2		М	
	80-100	С	10YR62 00	10YR6	8 71	М)	1	0	0	0		Р	Y
25	0-30	mzcl	10YR42 00							2	0 H	ıR 5			
	30-50	hzcl	10YR52 00	75YR5	8 00 1	М		١	1	0	0 F	IR 2		М	
	50-120	С	10YR53 00	10YR6	8 51 1	Ч		١	•	0	0 F	IR 2		Р	Υ
26	0-30	hcl	10YR42 00							2	0 H	HR 5			
	30-60	c	10YR53 54	10VR5	6 00	C		,	,	0		0		Р	Y
	00 00	Ü		, , , , , ,						•	•			•	,
27	0-29	hzcl	10YR52 00	10YR5	8 61	С		`	1	0	0	0			
	29-70	zc	10YR72 00	10YR6	8 71	М		١	1	0	0	0		Р	Y
28	0-29	mzcl	10YR42 00	10YR5	8 61	С		,	1	0	0	0			
	29-70	c	10YR52 00						,	0	-	0		Р	Y
	L3 70	Č	TOTRISE OF	101113	.	•			,	•	•	·		•	
29	0-27	mzcl	10YR53 00							0	0	0			
	27-55	zc	10YR72 00	10YR6	8 7 1	M		١	1	0	0	0		Р	Y
	55–120	С	10YR62 00	10YR6	8 71	М		`	1	0	0	0		P	Υ
30	0-25	mzcl	10YR42 00							5	0 F	HR 8			
31	0~30	mzcl	10YR54 00							5	0 F	ır 8			
31	30-40	mzcl	10YR54 00								0 H			м	
	30 40	201	1011134 00							•	•			••	
33	0-30	mzcl	10YR43 00							1	0 H	HR 4			
	30-50	С	75YR53 00	75YR5	8 52	M	00MN00	00 ١	1	0	0	0		Р	Υ
	50-120	С	10YR53 00	10YR5	6 52	М	00MN00	00 \	1	0	0	0		Р	Y
34	0-28	mzcl	10YR42 00							2	0 H	HR 4			
J ,	28-45	mzcl	10YR52 00	10YR5	8 61	С		١	,	0	0	0		М	
	45-70	hzc1	10YR53 00				00MN00			0	0	0		м	
	70-120		10YR53 54				00MN00			0	0	0		М	
25	0.00	•	10//040 00							,		ın -			
35	0-29	mzcl	10YR42 00 10YR53 00	10/05	0.61	^	0044100	00.	,	ა 0	0 1	HR 5			Y
	29-70	С	101853 00	IUYKS	יוס פ	L	OOMNOO	00 1		Ų	V	U		Р	Ť
36	0-27	mzcl	10YR42 00	10YR5	6 00	F				0	0 1	IR 2			
	27-40	hzcl	10YR53 00	10YR5	8 00	C		١	1	0	0	0		М	
	40-70	С	10YR63 00	10YR6	8 71	ч		١	•	0	0	0		P	Υ
	70-120	hzc1	10YR54 00	10YR5	8 00	С		\$	3	0	0	0		М	Υ
37	0-30	hzc1	10YR42 00							4	0 F	ır 6			
· ·	30-70	c	10YR53 00	10YR5	8 61 (С	00MN00	00 Y	,			0		P	Υ
38	0-30	hzcl	10YR42 00								0 F				
	30-55		10YR53 00						1	0		0		М	
	55-120	С	10YR62 00	10YR6	8 71 (ч		١	,	0	0	0		Р	Υ

				1	MOTTLES		PED			S1	ONES:		STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN			GLEY					CONSIST		IMP S	PL	CALC
39	0-25	hzcl	10YR42 00						5	0	HR	8					
	25-70	С	10YR53 00	10YR68	B 00 C	C	OOMMOO	00 Y	0	0		0		P		Υ	
40	0.05	- 3	100044 00							^	ш	10					
40	0-25	mzcl	10YR44 00						8	0	нк	12					
41	0-30	mzcl	10YR42 00	10YR56	6 00 F				0	0		0					
	30-60	С	10YR62 00	10YR68	3 71 M			Υ	0	0	W	0		Р		Υ	
	60-120	С	10YR52 00	10YR58	B 61 M			Υ	0	0		0		Р		Υ	
		_															
42	0-24	mzcl	10YR42 00						0	0		0					
	24-35	mzcl	10YR54 00						0	0		0		M -			
	35-70	zc	10YR72 00					Y	0	0		0		, P		Y	
	70-120	С	10YR62 00	10YR68	8 /1 M			Υ	0	0		0		Р		Y	
43	0-26	hzcl	10YR43 00	10YR58	B 61 C			Υ	0	0		0					
	26-60	С	10YR62 00	10YR68	3 71 M			Υ	0	0		0		Р		Υ	
44	0-30	hzc1	10YR42 00	10YR56	5 00 C			Y	0	0	HR	8					
	30-60	С	10YR62 00	10YR68	3 71 M			Υ	0	0	HR	10		Р		Y	
45	0-27	mzcl	10YR42 00						3	0	HP	6					
73	27-60	C	10YR53 00	10YR58	3 00 C	n	OMNOO	00 Y	_	0		8		Р		Υ	
	2, 00	C	1011135 00	1011131	3 00 0	·	0. 11.00		·	Ĭ	• • • •	_		•			
46	0-30	mzcl	10YR43 44						3	0	HR	5					
	30-70	С	10YR53 00	75YR58	3 00 C	0	OOMNOO	00 Y	0	0		0		P		Y	
47	0.30	1	10/042 00						0	^	ш	2					
47	0-30	mzcl	10YR43 00						0	0	HR	2 0		м			
	30-45 45-120	mzcl c	10YR54 00 75YR54 00	757050	2 00 C	r	OONNOO	00.5	-			0		M P		Υ	
	43-120	C	751854 00	7.51K.5k	3 00 0		101 11100	00 3	. 0	Ü		Ü		•		•	
48	0-30	mzcl	10YR42 00						0	0	HR	2					
	30-45	mzcl	10YR54 00	10YR56	5 00 F				0	0		0		М			
	45-70	mzc1	10YR64 00	10YR58	3 00 C			S	0	0		0		M			
	70-120	mzcl	10YR63 64	10YR68	3 00 C			Y	0	0		0		М			
40	0.03		1000040 00	104054					^	^		2					
49	0-27	mzcl	10YR42 00 10YR52 53					v	0	0	нк	2					
	27-65 65-85	hzc1 zc	101R52 55					Y Y	0	0		0		M P		Υ	
	85-120	mzcl	101R33 34					Y	-	0		0		M		Υ	
	03-120	1112.6 1	101R/2 /4	TOTROC	3 00 0			•	Ü	Ů		Ü		F4		'	
50	0-30	mzcl	10YR42 00						2	0	HR	4					
	30-50	С	10YR62 64	10YR68	3 00 C	0	00MM0	00 Y	0	0		0		Ρ		Y	
	50-70	hzc1	10YR52 00	10YR58	3 61 C	0	00MM0I	00 Y	0	0		0		М		Y	
	70-120	mzcl	10YR54 00	10YR58	3 00 C			S	0	0		0		М		Υ	
E1	0.20		100043 00						2	0	un	r					
51	0-29 29-40	hzc1	10YR42 00	100050	2 61 ^			v	3	0	ПK	5 0		м			
	40-50	mzcl	10YR52 00 10YR62 00					Y Y	0	٥		0		M			
	50-120	hzc1	101R62 00			0	OMNOO	-	_	0		0		M P		Υ	
	30-120	C	TOTRUE OU	101100	2 FT 17	·	VI #100	JU 1	v	v		J		r		•	