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**BASINGSTOKE & DEANE DISTRICT LOCAL  
PLAN REVIEW**

**Land to the North-East of Basingstoke**

**Agricultural Land Classification**

**ALC Map and Report**

**Reconnaissance Survey**

**July 1999**

**Resource Planning Team  
Eastern Region  
FRCA Reading**

**RPT Job Number: 1501/050/99  
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**AGRICULTURAL LAND CLASSIFICATION REPORT**  
**BASINGSTOKE & DEANE DISTRICT LOCAL PLAN REVIEW**  
**LAND TO THE NORTH-EAST OF BASINGSTOKE**  
**RECONNAISSANCE SURVEY**

**INTRODUCTION**

1. This report presents the findings of a reconnaissance Agricultural Land Classification (ALC) survey of approximately 133 hectares of land north-east of Basingstoke, in Hampshire. The survey was carried out during July 1999.
2. The survey was undertaken by the Farming and Rural Conservation Agency (FRCA)<sup>1</sup> on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF). The survey was carried out in connection with MAFF's statutory input to Basingstoke & Deane District Local plan Review. This survey supersedes any previous ALC information for this land.
3. The work was conducted by members of the Resource Planning Team in the Eastern Region of FRCA. The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF, 1988). A description of the ALC grades and subgrades is given in Appendix I.
4. At the time of survey the agricultural land on the site was mainly in arable production under barley, wheat, oilseed-rape and part recently ploughed, the remainder was in permanent and ley grassland. The areas mapped as 'Other land' include residential dwellings, a school, farm buildings, trackways, woodland and a small pond.

**SUMMARY**

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:25,000. It is accurate at this scale but any enlargement would be misleading.
6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

**Table 1: Area of grades and other land**

Grade/Other land	Area (hectares)	% surveyed area	% site area
3b	109.1	100	82.4
Other land	23.3	N/A	17.6
Total surveyed area	109.1	100	82.4
Total site area	132.4	-	100

7. The fieldwork was conducted at an average density of 1 boring per 5.5 hectares of agricultural land. In total, 24 borings and 3 soil pits were described on a widely spaced grid.

<sup>1</sup> FRCA is an executive agency of MAFF and the Welsh Office

8. All of the agricultural land has been classified as Subgrade 3b (moderate quality). Soil wetness, associated with the underlying London Clay, is the principal limitation to land quality. The soils are non-calcareous with fine loamy or fine silty topsoils. These overlies slowly permeable clayey subsoils which act to impede the movement of water. These poor drainage characteristics interact with the local climate to produce a significant soil wetness restriction. This limitation will affect the range and yield of crops that can tolerate such wet conditions, as well as restricting the number of days when the land is in a suitable condition for cultivation, trafficking by machinery or grazing by livestock.

## FACTORS INFLUENCING ALC GRADE

### Climate

9. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.
10. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met. Office, 1989).

Table 2: Climatic and altitude data

Factor	Units	Values	
		SU 676 556	SU 670 557
Grid reference	N/A	70	80
Altitude	m, AOD	1452	1441
Accumulated Temperature	day°C (Jan-June)	717	731
Average Annual Rainfall	mm	153	155
Field Capacity Days	days	107	106
Moisture Deficit, Wheat	mm	100	98
Moisture Deficit, Potatoes	mm		
Overall climatic grade	N/A	Grade 1	Grade 1

11. 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.
12. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (AT0, January to June), as a measure of the relative warmth of a locality.
13. The combination of rainfall and temperature at this site mean that there is no climatic limitation. Local climatic factors, such as exposure and frost risk do not significantly affect land quality at this location. The site is climatically grade 1. However, climatic factors do interact with soil properties to influence soil wetness and droughtiness. At this locality the climate is average, in regional terms.

### Site

14. The site lies at altitudes in the range 65–85m AOD. The highest land is found around Redlands adjacent to the A33. The land falls gently away from here towards the north, east and the lowest lying land to the south. The site is not adversely affected by gradient, microrelief or flooding.

### **Geology and soils**

15. The most detailed published geological information for the site (BGS, 1978) indicates that it is entirely underlain by London Clay.
16. The most detailed published soils information covering the area (SSEW, 1983) shows it to be mapped entirely as soils of the Wickham 4 association. These soils are described as 'slowly permeable seasonally waterlogged fine loamy over clayey and fine silty over clayey soils associated with similar clayey soils, often with brown subsoil'. Soils fitting this description were found on site.

### **AGRICULTURAL LAND CLASSIFICATION**

17. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1, page 1.
18. The location of the auger borings and pits is shown on the attached sample location map and the details of the soils data are presented in Appendix II.

### **Subgrade 3b**

19. Moderate quality agricultural land is mapped over the entire site and suffers from a significant soil wetness limitation, coincident with the underlying London Clay.
20. Soils typically comprise a non-calcareous very slightly stony (up to 5% total flints by volume) medium or heavy clay loam topsoil. Mostly, this overlies a stoneless poorly structured clay upper subsoil which continues down the profile to depths in excess of 50cm. Occasionally, the topsoil gives way to a heavy clay loam upper subsoil which overlies the clay from 44–58cm. Pit 1, 2 and 3 (see Appendix II) are typical of these soils and confirms the slowly permeable nature of the clay, which acts to impede the movement of water down the soil profile. These poor drainage characteristics are sufficient to place these soils into Wetness Class IV, or III where the less permeable clays are found deeper down the profile. This combination of soil properties, in the local climate (153 FC Days), results in the land being appropriately classified as Subgrade 3b. Excessive soil wetness adversely affects seed germination and survival, partly by a reduction in soil temperature and partly because of anaerobism. It also inhibits the development of a good root system, all of which can affect the range of crops that can be grown and the level of yield. Soil wetness also influences the sensitivity of the soil to structural damage and is, therefore, a major factor in determining the number of days when the soil is in a suitable condition for cultivation, trafficking by machinery or grazing by livestock.

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## SOURCES OF REFERENCE

British Geological Survey (1978) *Sheet No. 284, Basingstoke*.  
BGS: London.

Ministry of Agriculture, Fisheries and Food (1988) *Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land*.  
MAFF: London.

Met. Office (1989) *Climatological Data for Agricultural Land Classification*.  
Met. Office: Bracknell.

Soil Survey of England and Wales (1983) *Sheet 6, South East England*.  
SSEW: Harpenden.

Soil Survey of England and Wales (1984) *Soils and their Use in South East England*  
SSEW: Harpenden

## APPENDIX I

### DESCRIPTIONS 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 (e.g. 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.

**APPENDIX II**

**SOIL DATA**

**Contents:**

**Sample location map**

**Soil abbreviations - explanatory note**

**Soil pit and soil boring descriptions (boring and horizon levels)**

## 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:

<b>ARA:</b>	Arable	<b>WHT:</b>	Wheat	<b>BAR:</b>	Barley
<b>CER:</b>	Cereals	<b>OAT:</b>	Oats	<b>MZE:</b>	Maize
<b>OSR:</b>	Oilseed rape	<b>BEN:</b>	Field beans	<b>BRA:</b>	Brassicae
<b>POT:</b>	Potatoes	<b>SBT:</b>	Sugar beet	<b>FCD:</b>	Fodder crops
<b>LIN:</b>	Linseed	<b>FRT:</b>	Soft and top fruit	<b>FLW:</b>	Fallow
<b>PGR:</b>	Permanent pasture	<b>LEY:</b>	Ley grass	<b>RGR:</b>	Rough grazing
<b>SCR:</b>	Scrub	<b>CFW:</b>	Coniferous woodland	<b>OTH:</b>	Other
<b>DCW:</b>	Deciduous woodland	<b>BOG:</b>	Bog or marsh	<b>SAS:</b>	Set-Aside
<b>HTH:</b>	Heathland	<b>HRT:</b>	Horticultural crops	<b>PLO:</b>	Ploughed

3. **GRDNT:** Gradient as estimated or measured by a hand-held optical clinometer.

4. **GLEYSPL:** 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:

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

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

<b>OC:</b>	Overall Climate	<b>AE:</b>	Aspect	<b>ST:</b>	Topsoil Stoniness
<b>FR:</b>	Frost Risk	<b>GR:</b>	Gradient	<b>MR:</b>	Microrelief
<b>FL:</b>	Flood Risk	<b>TX:</b>	Topsoil Texture	<b>DP:</b>	Soil Depth
<b>CH:</b>	Chemical	<b>WE:</b>	Wetness	<b>WK:</b>	Workability
<b>DR:</b>	Drought	<b>ER:</b>	Erosion Risk	<b>WD:</b>	Soil Wetness/Droughtiness
<b>EX:</b>	Exposure				

### Soil Pits and Auger Borings

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

<b>S:</b>	Sand	<b>LS:</b>	Loamy Sand	<b>SL:</b>	Sandy Loam
<b>SZL:</b>	Sandy Silt Loam	<b>CL:</b>	Clay Loam	<b>ZCL:</b>	Silty Clay Loam
<b>ZL:</b>	Silt Loam	<b>SCL:</b>	Sandy Clay Loam	<b>C:</b>	Clay
<b>SC:</b>	Sandy Clay	<b>ZC:</b>	Silty Clay	<b>OL:</b>	Organic Loam
<b>P:</b>	Peat	<b>SP:</b>	Sandy Peat	<b>LP:</b>	Loamy Peat
<b>PL:</b>	Peaty Loam	<b>PS:</b>	Peaty Sand	<b>MZ:</b>	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. **GLEYS:** 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:

<b>HR:</b>	all hard rocks and stones	<b>FSST:</b>	soft, fine grained sandstone
<b>ZR:</b>	soft, argillaceous, or silty rocks	<b>CH:</b>	chalk
<b>MSST:</b>	soft, medium grained sandstone	<b>GS:</b>	gravel with porous (soft) stones
<b>SI:</b>	soft weathered igneous/metamorphic rock	<b>GH:</b>	gravel with non-porous (hard) stones

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	<b>WK:</b> weakly developed	<b>MD:</b> moderately developed
	<b>ST:</b> strongly developed	
Ped size	<b>F:</b> fine	<b>M:</b> medium
	<b>C:</b> coarse	
Ped shape	<b>S:</b> single grain	<b>M:</b> massive
	<b>GR:</b> granular	<b>AB:</b> angular blocky
	<b>SAB:</b> sub-angular blocky	<b>PR:</b> prismatic
	<b>PL:</b> platy	

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

<b>L:</b> loose	<b>FM:</b> firm	<b>EH:</b> extremely hard
<b>VF:</b> very friable	<b>VM:</b> very firm	
<b>FR:</b> friable	<b>EM:</b> extremely firm	

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

SAMPLE NO.	GRID REF	ASPECT USE	--WETNESS--				--WHEAT--		--POTS--		M. REL		EROSN	FROST	CHEM	ALC	COMMENTS
			GRDNT	GLEYS	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EXP	DIST	LIMIT	
2	SU67325660	WHT		0	34	4	3B	95	-12	107	7	3A			WE	3B	SPL SEEPITS
7	SU67505650	WHT W	1	0	18	4	3B	88	-19	100	0	3A			WE	3B	SPL SEEPITS
12	SU67405640	WHT W	1	0	27	4	3B	92	-15	104	4	3A			WE	3B	SPL SEEPITS
16	SU67105630	BAR		25	55	4	3B	87	-20	99	-1	3A			WE	3B	SEE 2P
27	SU67305620	BAR N	1	25	44	3	3B	124	17	101	1	2			WE	3B	HCL T-SOIL
28	SU67405620	STB NE	1	27	27	4	3B	93	-14	105	5	3A			WE	3B	SPL SEEPITS
32	SU67805620	STB S	1	30	30	4	3B	93	-14	105	5	3A			WE	3B	SPL SEEPITS
34	SU66905610	LEY W	1	0	26	4	3B	92	-15	104	4	3A			WE	3B	SPL SEEPITS
50	SU67205600	LEY		27	27	4	3B	81	-26	86	-14	3B			WE	3B	IMP580M SPL
53	SU67505600	STB		27	27	4	3B	94	-13	106	6	3A			WE	3B	SPL SEEPITS
56	SU67805600	STB		25	100	2	3B	143	36	111	11	1			WK	3B	CLAY T-SOIL
61	SU67005590	LEY		27	27	4	3B	92	-15	104	4	3A			WE	3B	SPL SEEPITS
71	SU68005590	PLO		26	26	4	3B	90	-17	102	2	3A			WE	3B	SPL SEEPITS
80	SU67505580	BAR		0	26	4	3B	90	-17	102	2	3A			WE	3B	SPL SEEPITS
87	SU68205580	STB		30	30	4	3B	91	-16	103	3	3A			WE	3B	SPL SEEPITS
90	SU67105570	LEY S	3	0	27	4	3B	91	-16	103	3	3A			WE	3B	SPL SEEPITS
97	SU67805570	STB		0	26	4	3B	109	2	114	14	3A			WE	3B	SPL SEEPITS
108	SU67505560	PLO S	1	0	28	4	3B	93	-14	105	5	3A			WE	3B	SPL SEEPITS
110	SU66805550	LEY S	1	33	33	4	3B	94	-13	106	6	3A			WE	3B	SPL SEEPITS
112	SU67005550	LEY		17	17	4	3B	87	-20	99	-1	3A			WE	3B	SPL SEEPITS
118	SU67505550	PLO S	1	0	28	4	3B	93	-14	105	5	3A			WE	3B	SPL SEEPITS
123	SU67105540	PLO S	1	0	25	4	3B	88	-19	100	0	3A			WE	3B	SPL SEEPITS
127	SU67405540	PLO		0	25	2	3A	66	-41	66	-34	3B			DR	3B	SURFACE H2O
128	SU66805530	LEY		28	28	4	3B	89	-18	101	1	3A			WE	3B	SPL SEEPITS
P	SU67605550	PLO S	2	0	25	4	3B	90	-17	102	2	3A			WE	3B	PIT1 ATAB118
2P	SU67405620	STB		26	26	4	3B	99	-8	113	13	3A			WE	3B	PIT2 ATAB28
P	SU67325660	WHT		0	33	4	3B	94	-13	106	6	3A			WE	3B	PIT3 ATAB2

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES----			PED COL.	----STONES----			STRUCT/ CONSIST	SUBS					
				COL	ABUN	CONT		GLY	>2	>6		LITH	TOT	STR	POR	IMP	SPL
2	0-34	HCL	25Y 42	10YR46	C	D		Y	0	0	HR	2					
	34-70	C	25Y 6361	10YR56	M	D		Y	0	0		0	P				Y
7	0-18	MCL	25Y 42	10YR42	C	D		Y	0	0	HR	1					
	18-45	C	25Y 53	10YR56	C	D		Y	0	0		0	P				Y
	45-70	C	25Y 71	10YR58	M	D		Y	0	0		0	P				Y
12	0-27	HCL	10YR42	10YR46	C	F		Y	0	0	HR	1					
	27-70	C	25Y 5363	10YR58	M	D		Y	0	0		0	P				Y
16	0-25	MCL	10YR42						0	0	HR	3					
	25-55	HCL	25Y 5362	10YR56	M	D		Y	0	0	HR	2	M				
	55-70	C	25Y 6361	10YR56	M	D		Y	0	0		0	P				Y
27	0-25	HCL	10YR42						0	0	HR	5					
	25-44	HCL	10YR42	10YR46	C	D		Y	0	0	HR	10	M				
	44-85	C	05Y 51	10YR46	M	D		Y	0	0	HR	10	P				Y
	85-120	C	05Y 61	10YR46	M	D		Y	0	0		0	P				Y
28	0-27	MCL	10YR42						0	0		0					
	27-70	C	25Y 5363	10YR58	M	D		Y	0	0		0	P				Y
32	0-30	MCL	10YR42						0	0	HR	1					
	30-70	C	25Y 53	10YR58	M	D		Y	0	0		0	P				Y
34	0-26	MCL	10YR42	10YR46	C	D		Y	0	0		0					
	26-70	C	25Y 5363	10YR56	M	D		Y	0	0		0	P				Y
50	0-27	MCL	10YR42	10YR46	F	D			0	0	HR	5					
	27-58	C	25Y 5363	10YR58	M	D		Y	0	0	HR	2	P				Y
53	0-27	MZCL	10YR42						0	0	HR	3					
	27-70	C	05Y 62	10YR58	M	D		Y	0	0		0	P				Y
56	0-25	C	10YR42	10YR56	C	F		Y	0	0	HR	1					
	25-58	HCL	10YR42	10YR56	C	F		Y	0	0		0	M				
	58-70	C	25Y 5363	10YR6	M	D		Y	0	0		0	P				
	70-100	HCL	10YR42	10YR56	C	F		Y	0	0		0	M				
100-120	C	10YR63	10YR56	M	D		Y	0	0		0	P					Y
61	0-27	MCL	10YR42	10YR46	F	D			0	0	HR	2					
	27-70	C	25Y 6361	10YR58	M	D		Y	0	0		0	P				Y
71	0-26	MCL	10YR42						1	0	HR	5					
	26-70	C	05Y 62	10YR58	M	D		Y	0	0		0	P				Y
80	0-26	MCL	10YR42	10YR46	C	D		Y	0	0	HR	5					
	26-70	C	25Y 5362	10YR58	M	D		Y	0	0		0	P				Y

SAMPLE	DEPTH	TEXTURE	COLOUR	----MOTTLES-----			PED COL.	----STONES----			STRUCT/ CONSIST	SUBS			CALC		
				COL	ABUN	CONT		GLEYS	>2	>6		LITH	TOT	STR		POR	IMP
87	0-30	MCL	10YR42						1	0	HR	5					
	30-70	C	05Y 62	10YR58	M	D		Y	0	0		0		P		Y	
90	0-27	MCL	10YR42	10YR46	C	F		Y	0	0	HR	3					
	27-70	C	25Y 5363	10YR56	M	D		Y	0	0		0		P		Y	
97	0-26	MZCL	10YR42	10YR46	C	D		Y	0	0		0					
	26-80	C	25Y 63	10YR58	M	D		Y	0	0		0		P		Y	
108	0-28	HCL	10YR42	10YR46	C	D		Y	0	0	HR	1					
	28-70	C	25Y 53	10YR56	C	D		Y	0	0		0		P		Y	
110	0-33	HCL	10YR42						0	0	HR	3					
	33-70	C	05Y 62	10YR58	M	D		Y	0	0		0		P		Y	
112	0-17	HCL	10YR42	10YR46	F	D			0	0	HR	2					
	17-70	C	25Y 5363	10YR56	M	D		Y	0	0		0		P		Y	
118	0-28	HCL	10YR41	10YR46	C	D		Y	0	0	HR	1					
	28-70	C	05Y 62	10YR58	M	D		Y	0	0		0		P		Y	
123	0-25	C	10YR41	10YR46	C	C		Y	0	0	HR	3					
	25-70	C	05Y 61	10YR58	M	D		Y	0	0		0		P		Y	
127	0-25	HCL	10YR41	10YR46	C	D		Y	2	0	HR	5					
	25-45	C	05Y 51	10YR58	M	D		Y	0	0	HR	10		P		N	
128	0-28	HCL	10YR42						0	0	HR	5					
	28-45	C	25Y 53	10YR56	C	D		Y	0	0	HR	10		P		Y	
	45-70	C	25Y 52	10YR56	C	D		Y	0	0		0		P		Y	
1P	0-25	HCL	10YR42	10YR46	C	D		Y	0	0	HR	3				N	
	25-70	C	25Y 53	10YR58	M	D	25Y 52	Y	0	0		0	MDCAB	FM	P	Y	Y
2P	0-26	MCL	10YR42						0	0	HR	2					
	26-60	C	10YR53	10YR4656	M	D		Y	0	0		0	MDCPR	FR	M	Y	Y
	60-70	C	10YR5262	10YR58	M	D		Y	0	0		0	MDCPR	FM	P	Y	Y
3P	0-33	HCL	25Y 42	10YR46	C	D		Y	0	0	HR	2				N	
	33-70	C	05Y 61	10YR56	M	D		Y	0	0		0	MDCAB	FM	P	Y	Y