

TUNBRIDGE WELLS LOCAL PLAN

Site 5 Land at Greggs Wood
Blackhurst Lane
Tunbridge Wells

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SITE 5 - LAND AT GREGGS WOOD, BLACKHURST LANE, TUNBRIDGE WELLS

1 INTRODUCTION

- 1 1 In June 1992 an Agricultural Land Classification (ALC) survey was carried out on 78 ha of land to the north-east of Tunbridge Wells Kent ADAS was commissioned by MAFF to determine land quality affected by the proposal to include this site for development in the Tunbridge Wells Local Plan
- 1 2 The survey work was carried out by members of the Resource Planning Team within the Guildford Statutory Group at a detailed level of approximately 1 boring per hectare A total of 25 auger borings and two soil inspection pits were described and the site graded using 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 long term limitations on its agricultural use At the time of survey the site was in neglected permanent pasture
- 1 3 The distribution of grades is shown on the attached ALC map and the area and extent is given in the table below The map has been drawn at a scale of 1 10 000 any enlargement of this would be misleading

Distribution of Grades and Sub-grades

<u>Grade</u>	<u>Area (ha)</u>	<u>% total agricultural land</u>
1	1 90	7
2	15 68	54
3a	5 64	19
3b	2 19	8
4	3 50	12
Total agricultural area	<u>28 91</u>	<u>100</u>
Non-Agricultural	4 07	
Woodland	<u>45 02</u>	
Total Area of site	<u>78 00</u>	

- 1 4 Grades 1 2 3a 3b and 4 have been mapped at this locality Land assigned to grades 2 and 3a are subject to slight wetness or droughtiness limitations depending upon depths to gleying and slowly permeable horizons and depths over soft sandstone deposits respectively Areas of grades 3b and 4 have been mapped on the basis of gradient limitations Slopes of 7-14 were measured using an optical reading clinometer

2 PHYSICAL FACTORS AFFECTING LAND QUALITY

Relief

- 2 1 The site ranges in altitude from 70m AOD towards the far north-west to 140m AOD along the south-eastern boundary. Greggs Wood contains some areas of steeply sloping land but this has been mapped wholly as woodland. Of the agricultural land on the site most falls gently from south to north. However along both the eastern and to a greater extent the western boundary gradients were found to be limiting in terms of the agricultural use of the land. Slope angles of 7-14 were measured using an optical reading clinometer and land has been graded 3b or 4 accordingly.

Climate

- 2 2 Estimates of climatic variables relevant to the assessment of agricultural land quality were obtained for representative locations in the survey area by interpolation from a 5 km gridpoint dataset (Met Office 1989).

Climatic Interpolations

Grid Reference	TQ608421	TQ606415	TQ602403
Altitude (m MOD)	75	100	140
Accumulated Temperature (days Jan-June)	1431	1403	1358
Average Annual rainfall (mm)	751	770	799
Field Capacity Days	157	161	166
Moisture Deficit Wheat (mm)	107	102	96
Moisture Deficit Potatoes (mm)	99	94	85

- 2 3 The important parameters in assessing 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. There is no overall climatic limitation affecting this site. However climatic factors do affect the interactive limitations between soil and climate to influence soil wetness and droughtiness.

Geology and Soils

- 2 4 British Geological Survey (1971) Sheets 287 and 303 Sevenoaks and Tunbridge Wells respectively show the site to be predominantly underlain by deposits of Cretaceous Tunbridge Wells Sand with small outcrops of Wadhurst Clay and Recent Head deposits along the western fringe of the site.
- 2 5 Soil Survey of England and Wales (1986) Sheet TQ64 Soils of Paddock Wood shows a number of soil series to be present within the survey area. Most of the agricultural land surveyed comprises soils of the Curtisden Series. These soils are described as moderately deep silty stagnogleyic argillic brown earths developed over Tunbridge Wells Sand (SSEW 1984). Curtisden Soils extend southwards through the central part of Greggs Wood. Soils of the Pembury Conway/Hamble/Wickham and Cranbrook Series have been mapped beneath Greggs Wood with the Pembury Series silty typical brown earths over loams with interbedded sandstones (SSEW 1986) being most extensive.

2 6 Detailed field examination of the soils on the site indicates the presence of fine and medium silty or sandy soils whose drainage status is variable but generally well to moderately well drained Occasional profiles rest directly over impenetrable (to soil auger) medium soft sandstone deposits at moderate depths (ie below about 65 cm)

3 AGRICULTURAL LAND CLASSIFICATION

- 3 1 The quality of the agricultural land on this site ranges from excellent to poor. Grade 1 has been mapped where the limitations to agricultural use are non-existent or only very minor, whereas Grade 4 has been assigned where severe limitations are present. Land graded 2 and 3a is principally limited by the interaction between soil and climatic factors giving rise to soil wetness and/or droughtiness limitations. Grades 3b and 4 are mapped where the main limitation is that of gradient.

Grade 1

- 3 2 Land with no or very minor limitations to agricultural use represents 7% of the total agricultural area surveyed. Profiles typically comprise non-calcareous fine sandy silt loam topsoils which may be very slightly stony (ie 2-3% by volume soft sandstone fragments). These overlie medium sandy silt loam subsoils which sometimes become more sandy with depth, passing to medium sandy loam. Subsoils contain 2-3% sandstone fragments by volume and may occasionally become impenetrable (to soil auger) over sandstone below about 95 cm. Although profiles are gleyed from 28-45 cm, subsoils are not slowly permeable and are thereby assigned to wetness class I.

This land has good reserves of available water for plant growth and despite being slightly affected by groundwater gleying is generally freely draining and workable given the light soil textures and prevailing climatic conditions.

Grade 2

- 3 3 Land of this quality accounts for the largest proportion of the agricultural land surveyed (ie 54%).

It occurs in two different situations:

- Most of the land assigned to this grade is primarily affected by a soil wetness limitation but occasionally slight soil droughtiness may also be affecting the land to an equal degree.

Non-calcareous fine sandy silt loam or silt loam topsoils which may be very slightly stony overlie similar textures in the upper subsoil and pass to heavier textures such as medium or heavy silty clay loam below about 45-55 cm depth. Subsoils contain variable quantities of stone typically in the range 2-15% sandstone fragments by volume and occasionally become impenetrable over sandstone below 62 cm.

Profiles are gleyed from 27cm and within 45 cm and were typically found to be slowly permeable below 42 to 55 cm. Wetness Class II or III was assigned depending upon depth to gleyed and slowly permeable horizons and land graded 2 according to the interaction of drainage status with topsoil texture. Those profiles which were impenetrable over sandstone within 65-70 cm were also limited to grade 2 by a slight risk of soil droughtiness. Otherwise land is solely limited by slight soil wetness.

- A number of profiles were found to be well drained Wetness Class I or II but were primarily limited by slight soil droughtiness Profiles are similar to those described previously the difference being that they contain slightly more sandy horizons ie sandy loam loamy sand or very occasionally sand and/or are more stony in the subsoil (ie 5-15% sandstone by volume) and/or are shallow over sandstone from 67 cm The risk of slight soil droughtiness is therefore the overriding limitation to agricultural use not soil wetness

Grade 3a

- 3 4 Land assigned to this grade comprises soil profiles which are less well drained than those described in section 3 3 Non-calcareous silt loam topsoils overlie similar textures or medium silty clay loam subsoils They are generally deep (only very occasionally do they become impenetrable over sandstone below 100 cm) and only very slightly stony (2-5% sandstone fragments by volume)

Profiles are gleyed from below the topsoil and slowly permeable below about 45 cm and are thus assigned to Wetness Class III These drainage characteristics combine with silt loam topsoils to give rise to a slight soil wetness limitation such that grade 3a is appropriate

Grade 3b

- 3 5 A number of small units of sub-grade 3b have been mapped across the site the limitation to agricultural use being that of gradient Slope angles were measured using an optical reading clinometer and where gradient exceeds 7 but is less than 11 subgrade 3b is assigned On slopes of this degree difficulties will be experienced with the operation of mechanised farm machinery and equipment

Grade 4

- 3 6 Two units of grade 4 have been mapped where gradients exceed 11 (angles of 11-14 were recorded across these areas) On this land the safe and efficient operation of farm machinery will be severely restricted and the assessment of poor quality agricultural land reflects this

July 1992
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Resource Planning Team
ADAS Reading

SOURCES OF REFERENCE

- BRITISH GEOLOGICAL SURVEY (1971) Sheet 287 Sevenoaks
- BRITISH GEOLOGICAL SURVEY (1971) Sheet 303 Tunbridge Wells
- MAFF (1988) Agricultural Land Classification of England and Wales
Revised guidelines and criteria for grading the quality of agricultural
land
- METEOROLOGICAL OFFICE (1989) Climatological datasets for Agricultural
Land Classification
- SOIL SURVEY OF ENGLAND AND WALES (1984) Bulletin 15 Soils and their
use in South-East England
- SOIL SURVEY OF ENGLAND AND WALES (1986) Sheet TQ64 Soils of Paddock
Wood and accompanying bulletin

SAMPLE		ASPECT		WETNESS		WHEAT		POTS		M REL		EROSN	FROST	CHEM	ALC	COMMENTS	
NO	GRID REF	USE	GRDNT	GLEY	SPL	CLASS	GRADE	AP	MB	AP	MB	DRT	FLOOD	EXP	DIST		LIMIT
3	TQ60604200	PAS	N	01	042	042	3	2	182	80	137	43	1				WE 2
4	TQ60704200	PAS	N	01	045	045	3	2	139	37	138	44	1				WE 2
8	TQ60504190	PAS	N	04	024		2	2	105	3	108	14	2				WD 2
9	TQ60604190	PAS	N	05	038	055	3	2	132	30	147	53	1				WE 2
10	TQ60704190	PAS	E	03	045		1	1	146	44	127	33	1				1
12	TQ60404180	PAS	W	06	038		1	1	150	48	139	45	1				1
12P	TQ60404180	PAS	W	06	042		1	1	000	0	000	0	1				1
13	TQ60504180	PAS	W	03	030	045	3	3A	000	0	000	0	2				WE 3A
13P	TQ60504180	PAS	W	03	029	045	3	3A	134	32	136	42	2				WE 3A
14	TQ60604180	PAS	E	03	030	060	3	3A	165	63	151	57	1				WE 3A
15	TQ60704180	PAS	E	04	032		1	1	122	20	132	38	2				DR 2
16	TQ60804180	PAS	E	06	028		1	1	173	71	131	37	1				1
18	TQ60404170	PAS	W	06	045	068	2	1	180	78	142	48	1				1
19	TQ60504170	PAS	W	05	045	080	2	2	192	90	154	60	1				WE 2
20	TQ60604170	PAS	E	03	032	055	3	2	167	65	133	39	1				WE 2
21	TQ60704170	PAS	E	02	026	026	4	3B	131	29	124	30	2				WE 3B
23	TQ60504160	PAS	W	04	028		2	1	118	16	128	34	2				DR 2
24	TQ60604160	PAS	E	06	085		1	1	110	8	92	2	2				DR 2
25	TQ60404150	PAS	E	06	055	055	2	1	181	79	146	52	1				GR 4 Slope
26	TQ60504150	PAS	W	05	045		1	1	132	30	143	49	1				1
27	TQ60604150	PAS	E	06	028	045	3	3A	170	68	135	41	1				WE 3A
28	TQ60704150	PAS	E	06	037	060	3	2	132	30	145	51	1				WE 2
31	TQ60604140	PAS	N	01	023		2	1	88	14	88	6	3A				DR 3A
32	TQ60704140	PAS	E	05	020	045	3	3A	164	62	128	34	1				WE 3A
35	TQ60604130	PAS	NE	05	065		1	1	118	16	105	11	2				DR 2
36	TQ60704130	PAS	NE	03	027	050	3	2	145	43	140	46	1				WE 2
41	TQ60704120	PAS	NE	03	055		1	1	159	57	122	28	1				1

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES			PED		STONES			STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN	CONT	COL	GLE	2	6	LITH		TOT	STR	POR		IMP
3	0 27	fsz1	10YR53 00						0	0	0						
	27 42	fsz1	10YR64 00						0	0	0		M				
	42 65	mzc1	10YR64 00	10YR66 00	C		25Y 70 80	Y	0	0	MSST 5		M		Y		
	65 95	fs1	25Y 72 00	10YR68 00	M				Y	0	0	0		M			
	95 120	hzc1	25Y 70 80	10YR68 00	M		25Y 70 80	Y	0	0	0		M				
4	0 27	fs 1	10YR52 53						0	0	0						
	27 45	fsz1	10YR63 00	10YR74 00	F				0	0	MSST 5		M				
	45 77	h c1	10YR63 00	10YR66 00	M		25Y 70 80	Y	0	0	0		M		Y		
	77 85	mzc1	10YR63 00	10YR66 00	M				Y	0	0	MSST 15		M		Y	Imp 85+ msst
8	0 24	z1	10YR42 52	10YR74 76	C				0	0	0						
	24 50	m 1	10YR63 73	25Y 82 00	C				Y	0	0	0		M			
	50 60	lms	10YR63 73	10YR66 00	C				Y	0	0	0		M			
	60 62	lms	10YR63 73	10YR66 00	C				Y	0	0	0		M			Imp 62+ m t
9	0 32	fsz1	10YR52 00						0	0	0						
	32 38	z1	10YR53 00						0	0	0		M				
	38 55	1	10YR62 00	10YR66 00	C		10YR72 82	Y	0	0	0		M			Few Mn concs	
	55 70	mzc1	25 Y80 00	10YR66 00	C				Y	0	0	0		M		Y	Imp 70 msst
10	0 30	fsz1	10YR52 42						2	0	MSST 2						
	30 45	ms 1	10YR53 00		F		10YR52 00		0	0	MSST 3		M				
	45 52	ms1	10YR53 00	10YR52 00	C		10YR72 00	Y	0	0	MSST 3		M				
	52 95	ms1	10YR72 73	10YR58 00	C				Y	0	0	MSST 2		M			
12	0 29	fsz1	10YR42 00						0	0	0						Imp 95+ msst
	29 38	fs 1	10YR53 00						0	0	0		M				
	38 50	fsz1	10YR53 00		C		10YR72 00	Y	0	0	MSST 2		M				
	50 58	msz1	10YR53 00		C		10YR72 00	Y	0	0	MSST 2		M				
	58 70	ms1	10YR54 00		F		10YR72 00		0	0	0		M				
	70 80	lms	10YR54 00		F		10YR72 00		0	0	0		M				
	80 120	ms	10YR54 00						0	0	MSST 2		M				
12P	0 28	fsz1	10YR52 00						1	0	MSST 1						
	28 42	fsz1	10YR53 00						2	0	MSST 2	MDCOAB FM	M			Commo worm holes	
	42 70	ms 1	10YR53 00	10YR72 71	C			Y	2	0	MSST 2	MDCOAB FM	M			Becomi g die	
	70 85	lms	10YR54 00	10YR72 00	F				2	0	MSST 2	WKCOAB VF	M				
	85 120	ms	10YR54 00						2	0	MSST 2	SGRAIN VF	M				Almost str ct reles
13	0 30	z1	10YR42 52						0	0	0						
	30 45	mzc1	10YR62 00	10YR58 00	C		25Y 80 00	Y	0	0	0		M			Common Mn concs	
	45 82	h c1	25Y 80 00	10YR66 00	M				Y	2	0	MSST 2		M		Y	Imp 82 msst
13P	0 29	z1	10YR52 00						0	0	0						
	29 54	mzc1	25Y 80 00	10YR66 68	M				Y	0	0	0	MDVCAB XF	P	Y	Y	Common Mn concs
	54 120	h c1	25Y 80 00	10YR66 68	M				Y	0	0	0	STCPRM XF	P	Y	Y	Fewer roots

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES			PED		STONES			STRUCT/ CONSIST	SUBS			CALC	
				COL	ABUN	CONT	COL	GLE	2	6	LITH		TOT	STR	POR		IMP
14	0 30	z1	10YR52 00						0	0	0						
	30 60	z1	25 Y74 00	10YR66 00	C		25 Y80 00	Y	0	0	MSST	2		M			
	60 100	mzc1	25 Y74 72		M		25 Y80 00	Y	0	0	MSST	2		M		Y	Imp 100+ msst
15	0 32	fsz1	10YR52 00						3	0	MSST	3					
	32 45	msz1	10YR53 00	10YR58 00	C		10YR64 00	Y	0	0	MSST	3		M			Common Mn concs
	45 72	msz1	25 Y74 00	10YR58 00	C		10YR73 00	Y	0	0	MSST	3		M			Imp 72+ msst
16	0 28	fs 1	10YR52 00						0	0		0					
	28 120	msz1	10YR63 00	75YR58 00	C		10YR72 00	Y	0	0	MSST	3		M			Fe Mn co cs
18	0 26	fsz1	10YR42 00						0	0		0					
	26 45	fs 1	10YR53 00	10YR73 00	F				0	0		0		M			
	45 68	fs1	10YR53 00	75YR56 00	C		10YR82 00	Y	0	0		0		M			
	68 100	mzc1	25Y 70 80	10YR66 76	C			Y	0	0		0		M		Y	
	100 120	mzc1	25Y 70 80	10YR66 76	C			Y	0	0	MSST	5		M		Y	
19	0 27	z1	10YR52 00						0	0		0					
	27 45	z1	10YR53 00		F		10YR62 00		0	0	MSST	2		M			
	45 80	1	10YR64 00	10YR66 00	C		10YR62 72	Y	0	0	MSST	5		M			Few Mn concs
	80 120	hzc1	25 Y80 70	10YR64 66	C			Y	0	0		0		M		Y	
20	0 32	fs 1	10YR42 00						0	0	MSST	1					
	32 55	m 1	10YR53 63	10YR74 00	C			Y	0	0	MSST	2		M			
	55 75	mz 1	10YR64 00	75YR68 00	C		25Y 70 00	Y	0	0	MSST	5		M		Y	
	75-100	mzc1	10YR68 00	25Y 70 00	F			Y	0	0	MSST	10		M		Y	
	100 120	hzc1	25Y 70 80	10YR66 00	M			Y	0	0		0		M		Y	
21	0 26	mzc1	10YR53 00						0	0		0					
	26 75	hzc1	25Y 70 80	10YR66 00	M			Y	0	0		0		M		Y	
	75 90	mzc1	10YR73 00	10YR66 00	M		25Y 70 80	Y	0	0		0		M		Y	Imp 90
23	0 28	fs 1	25Y 52 00						0	0	MSST	2					
	28 40	f z1	10YR63 00	10YR76 00	C		10YR82 00	Y	0	0	MSST	2		M			
	40 60	mc1	10YR63 00	10YR76 00	C		10YR82 72	Y	0	0		0		M			
	60 67	mc1	10YR63 00	10YR76 00	C		10YR72 82	Y	0	0	MSST	10		M			Imp 67 msst
24	0 32	ms1	10YR42 00						0	0	MSST	2					
	32 50	ms1	10YR43 00	10YR66 00	F		10YR74 00		0	0	MSST	5		M			
	50 85	lms	10YR43 00	10YR66 74	F				0	0	MSST	15		M			
	85 120	lms	10YR74 00	10YR66 00	C		10YR72 00	Y	0	0	MSST	10		M			
25	0 34	fs 1	10YR53 00						0	0		0					
	34 55	z1	10YR53 63						0	0	MSST	2		M			
	55 85	mzc1	75YR53 00	10YR74 00	F			Y	0	0		0		M		Y	Few Mn concs
	85 120	mzc1	10YR54 64	10YR56 66	F			Y	0	0		0		M		Y	Common Mn concs
26	0 26	fsz1	10YR52 00						0	0		0					
	26 45	f 1	10YR53 00				10YR52 00		0	0	MSST	5		M			
	45 70	fs 1	10YR62 00	10YR58 00	C		10YR72 00	Y	0	0	MSST	10		M			Imp 70+ msst

SAMPLE	DEPTH	TEXTURE	COLOUR	MOTTLES			PED		STONES			STRUCT/ CONSIST	SUBS			CALC
				COL	ABUN	CONT	COL	GLE	2	6	LITH		TOT	STR	POR	
27	0 28	z1	10YR52 00						0	0	0					
	28 120	mzc1	10YR74 00	10YR66 00	F		10YR62 72	Y	0	0	MSST 2	M			Y	
28	0 22	fsz1	10YR52 00						0	0	0					
	22 37	fsz1	75YR56 00	10YR74 84	F				0	0	0	M				
	37 60	fsz1	10YR68 00	25Y 70 80	C			Y	0	0	0	M				
	60 70	mzc1	10YR73 00	10YR66 00	M		25Y 70 80	Y	0	0	0	M				Imp 70+
31	0 23	fsz1	10YR42 00						0	0	MSST 5					
	23 40	z1	10YR74 00	10YR66 00	C		25Y 70 00	Y	0	0	MSST 5	M				
	40 42	z1	10YR74 00	10YR66 00	C		25Y 70 00	Y	0	0	MSST 15	M				Imp 42+ stone
32	0 20	z1	10YR42 00						0	0	0					
	20 65	mzc1	10YR63 00	10YR66 00	M		10YR72 00	Y	0	0	MSST 5	M		Y		SPL 45+
	65 120	mzc1	25Y 80 00	10YR66 00	C			Y	0	0	MSST 1	M		Y		
35	0 23	ms1	10YR42 52						0	0	0					
	23 35	ms1	10YR52 54						0	0	0	M				
	35-65	ms1	75YR56 00						0	0	0	M				
	65 100	ms	10YR53 00	10YR66 00	C		10YR62 00	Y	0	0	0	M				
	100 120	ms	10YR81 82	75YR56 00	M			Y	0	0	0	M				
36	0 27	fsz1	10YR42 00						0	0	0					
	27 50	f 1	10YR53 00	10YR74 00	C			Y	0	0	MSST 2	M				
	50 60	h 1	10YR63 00	10YR66 00	C		10YR71 00	Y	0	0	MSST 5	M		Y		
	60 80	h c1	10YR71 00	10YR66 00	M			Y	0	0	0	M		Y		
	80 90	mzc1	10YR63 00	10YR66 00	C		10YR71 00	Y	0	0	MSST 15	M		Y		Imp 90 to y
41	0 35	ms 1	10YR42 52						0	0	0					
	35 45	msz1	10YR42 00						0	0	0	M				
	45 55	msz1	10YR42 00	10YR66 00	F				0	0	MSST 5	M				
	55 70	ms1	10YR53 00	10YR56 00	C		40YR62 00	Y	0	0	0	M				
	70 105	ms 1	10YR53 00	10YR56 00	C		10YR62 00	Y	0	0	0	M				
	105 120	1ms	10YR73 00	10YR56 00	C		10YR72 00	Y	0	0	MSST 5	M				

SOIL PIT DESCRIPTION

Site Name TWLP GREGGS WOOD Pit Number 13P

Grid Reference TQ60504180
 Average Annual Rainfall 770 mm
 Accumulated Temperature 1403 deg days
 Field Capacity Level 161 days
 Land Use
 Slope and Aspect 03 degrees W

HORIZON	TEXTURE	COLOUR	STONES	2	TOT STONE	MOTTLES	STRUCTURE
0 29	ZL	10YR5/2 0/0	0		0		
29 54	MZCL	2.5Y 8/0 0/0	0		0	M	MDVCAB
54 120	HZCL	2.5Y 8/0 0/0	0		0	M	STCPRM

Wetness Grade 3A
 Wetness Class III
 Gleying 029 cm
 SPL 045 cm

Drought Grade 2
 APW 134mm MBW 32 mm
 APP 136mm MBP 42 mm

FINAL ALC GRADE 3A
 MAIN LIMITATION Wetness

SOIL PIT DESCRIPTION

Site Name TWLP GREGGS WOOD P t N mber 12P

Grid Reference TQ60404180 Average Annual Rainfall 770 mm
 Accumulated Temperature 1403 degree days
 Field Capacity Level 161 days
 Land Use
 Slope and Aspect 06 degrees W

HORIZON	TEXTURE	COLOUR	STONES	TOT STONE	MOTTLES	STRUCTURE
0-28	FSZL	10YR52/00	1	1		
28-42	FSZL	10YR53/00	2	2		MDCOAB
42-70	MSZL	10YR53/00	2	2	C	MDCOAB
70-85	LMS	10YR54/00	2	2	F	WKCOAB
85-120	MS	10YR54/00	2	2		SGRAIN

Wetness Grade 1 Wetness Class I
 Clay g 000 cm
 SPL No SPL

Drought Grade 1 APW 000mm MBW 0 mm
 APP 000mm MBP 0 mm

FINAL ALC GRADE 1
 MAIN LIMITATION