

CLEVEDON, NAILSEA, PORTISHEAD LOCAL PLAN

AGRICULTURAL LAND CLASSIFICATION

REPORT OF SURVEY

1 Tickenham

An objection to the non-inclusion of land in the village fence around South View Farm, Tickenham was received by Woodspring Planning Authority. Two areas were surveyed by the Resource Planning Group in January 1991 totalling 1.5 ha and 3 auger borings were examined. A soil pit had been examined on similar soils at the east end of the village on a previous occasion. The results of the survey are shown in Table 1 and on the accompanying map. The results are accurate at the scale shown but any enlargement would be misleading.

Table 1 Distribution of ALC grades

<u>Grade</u>	<u>Area (ha)</u>	<u>% of survey area</u>	<u>% of agricultural land</u>
1	0.7	46	100
Urban	0.4	27	
Non Agric	0.4	27	100 (0.7 ha)
	<u>1.5</u>	<u>100</u>	

Table 2 Climatic Interpolation

Grid reference	ST 440718
Altitude (m)	20
Accumulated Temperature (° days)	1531
Average Annual Rainfall (mm)	845
Field Capacity Days	190
Moisture Deficit, Wheat (mm)	96
Moisture Deficit, Potatoes (mm)	86
Overall Climatic grade	1

There is no overall climatic limitation across the site.

Grade 1

All the land surveyed at Tickenham was found to be grade 1. There was no evidence of wetness and although the soils had a high sand content there was no droughtiness limitation. The topsoils and upper subsoils are medium sandy loams with clays at depth. There are no slowly permeable layers.

2 Kenn

At Kenn, the Parish Council objected to the non-inclusion of a piece of land from the village fence. This totalled 1.4 ha and were surveyed in January 1991. Two auger borings and one soil pit were examined. The results are shown in the table below and on the accompanying map. They are accurate at the scale shown but any enlargement would be misleading.

Table 3 Distribution of ALC grades

<u>Grade</u>	<u>Area (ha)</u>	<u>% of survey land</u>	<u>% of agricultural land</u>
3b	1 4	100%	100%

Table 4 Climatic Interpolation

Grid reference	ST 415690
Altitude (mm)	10
Accumulated Temp (° days)	1543
Average Annual Rainfall (mm)	831
Field Capacity Days	187
Moisture Deficit, Wheat (mm)	100
Potatoes (mm)	92
Overall climatic grade	1

Sub-Grade 3B

The site in Kenn revealed a wetness limitation. The medium clay loams were gleyed (pale colours and ochreous mottles) from the surface and the lower subsoil clays were slowly permeable. The slowly permeable layer began before 52 cm depth and so the soils are placed in wetness class 4. This assigns the soils to subgrade 3B.

Auger Sample Record

Tickenham

Boring 1	MSL	0-25	7	5YR44		
	MSL	25-55	7	5YR46		
	C	55-120		5YR44	WC	1
2	MSL	0-20	7	5YR44		
	MSL	20-70	7	5YR46		
	LMS	70-95		5YR44		
	SC	95-120		5YR44	WC	1
3	MSL	0-25	7	5YR44		
	MSL	25-40	7	5YR46		
	SCL	40-55		5YR44		
	C	55-120		5YR46	WC	1

Kenn

Boring 2	MCL	0-20	10YR42	cdom	gleyed	
	HCL	20-45	10YR52	cdom	gleyed	SPL
	C	45-70	10YR52	cdogm	gleyed	WC 4
3	MCL	0-30	10YR42	cdom	gleyed	
	HCL	30-55	10YR52	cdom	gleyed	SPL
	C	55-70	10YR52	cdogm	gleyed	WC 4

SITE NAME	PROFILE NUMBER	SLOPE AND ASPECT	LAND USE	Av Rainfall - 831	PARENT MATERIAL
Clevedon Nailsea Portishead local	1	0		ATO - 1543	
Plan Kenn	DATE	GRID REFERENCE	Grass	FC Days - 187	
	29/1/91			Climatic grade 1	

Horizon Number	Lowest Av Depth	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and Form
1	0-20	10YR42	MCL		cdom 10YR56					Common			Gradual
2	20-38	10YR52	HCL	-	cdom 10YR56	MDCAB	> 5%	Moderate	Friable	Common		fnn	Gradual
3	38-50	10YR52 pedface10YR61	HCL	-	cdogm 10YR56 10YR61	MDCAB	< 5%	Moderate	Firm	Common		fnn	
4	50-70+	10YR52 pedface10YR61	C	-	cdogm 10YR56 10YR61	MDCAB tending to platy	< 5%	Moderate	Firm	Common		fnn	

Depth to Slowly Permeable Horizon - 38 cm gleyed from 0 cm	Available Water	Wheat -	Final ALC Grade - 3b
		Potatoes -	
Wetness Class - 4	Moisture Deficit	Wheat -	Main Limiting Factor(s) - Wetness
		Potatoes - Not limiting	
Wetness Grade - 3b	Moisture Balance	Wheat -	
		Potatoes -	Remarks -
RPG23/WJC	Droughtiness Grade	-	