



AGRICULTURAL LAND CLASSIFICATION
CLEETHORPES BOROUGH LOCAL PLAN
SITE 4, BRADLEY PARK, CLEETHORPES,
HUMBERSIDE
JANUARY 1994

ADAS
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SUMMARY

A semi-detailed Agricultural Land Classification Survey of 94.1 ha of land at Bradley, Cleethorpes was carried out in January 1994.

93.3ha of this was in agricultural use of which 3.1 ha falls within Grade 2. Soils consist of moderately well drained (Wetness Class II) medium clay loam topsoils, over gleyed permeable sandy clay loam upper subsoils in turn over gleyed permeable sandy clay loam lower subsoils. The ALC grade is limited by a slight soil wetness problem.

Subgrade 3a land occurs in the northern part of the site and covers 26.2ha. Soils consist of imperfectly drained (Wetness Class III) medium clay loam topsoils over gleyed permeable sandy clay loam, medium clay loam and heavy clay loam upper subsoils. Lower subsoils consist of gleyed, slowly permeable heavy clay loams and clays. This land is limited to Subgrade 3a by soil wetness.

The remaining agricultural land (64.0 ha) falls within Subgrade 3b. Soils are poorly drained (Wetness Class IV) and consist of medium and heavy clay loam topsoils over gleyed slowly permeable clay subsoils. This land is limited to Subgrade 3b by soil wetness and workability problems.

The remainder of the site (0.8 ha) consists of non-agricultural farm track and adjacent scrubland.

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON SITE 4, BRADLEY PARK,
CLEETHORPES, HUMBERSIDE

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies 4km south west of Grimsby town centre, to the south, north and east of Scartho Wood. It is centred on National Grid Reference TA 245065. Survey work was carried out in January 1994 when soils were examined by hand auger borings at a density of 1 per 2 hectares at points predetermined by the National Grid. Two soil inspection pits were dug to assess subsoil structure. Land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land" (MAFF 1988).

1.2 Land Use and Relief

At the time of the survey most of the site was in agricultural production, the remainder being non-agricultural land. The site is level to gently sloping (0-2°) and lies between 17m AOD and 23m AOD.

1.3 Climate

Grid Reference	: TA 245065
Altitude (m)	: 20
Accumulated Temperature above 0°C (January-June)	: 1385 day°C
Average Annual Rainfall (mm)	: 638
Climatic Grade	: 1
Field Capacity Days	: 143
Moisture Deficit (mm) Wheat	: 108
Moisture Deficit (mm) Potatoes	: 100

1.4 Geology, Soils and Drainage

The site is underlain by Cretaceous Chalk above which is deposited a thick layer of boulder clay in which the soils have developed.

Topsoils across the site consist of medium to heavy clay loam or occasional medium sandy loam and sandy clay loam. Subsoils consist of medium clay loam, sandy clay loam and heavy clay loam upper subsoils, over slowly permeable clay lower subsoils. Occasional medium sandy loam subsoils are also found.

Soils vary from well drained (Wetness Class I) to poorly drained (Wetness Class IV). The better drained soils are found in the northern part of the site, whereas the southern part consist of poorly drained (Wetness Class IV) soils.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

<u>Grade/Subgrade</u>	<u>Hectares</u>	<u>Percentage of Total Area</u>
1		
2	3.1	3.3
3a	26.2	27.8
3b	64.0	68.0
4		
5		
(Sub total)	(93.3)	(99.1)
Urban		
Non Agricultural	0.8	0.9
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.8)	(0.9)
TOTAL	<u>94.1</u>	<u>100</u>

2.1 Grade 2

A small area of Grade 2 land occurs in the centre of the site. Topsoils consist of very slightly stony medium clay loam over very slightly stony, permeable gleyed sandy clay loam upper subsoils, over gleyed permeable sandy clay loam lower subsoils. These soils are moderately well drained, falling into Wetness Class II. Slight soil wetness limits this land to Grade 2.

2.2 Subgrade 3a

Land in the north and north west and a small area to the east falls within Subgrade 3a. Soils consist of very slightly stony medium clay loam topsoils, over gleyed permeable very slightly stony sandy clay loam, medium clay loam and heavy clay loam upper subsoils. Lower subsoils consist of stoneless to very slightly stony, gleyed slowly permeable heavy clay loam. The slowly permeable layer occurs between 45cm and 60cm depth. The soils are imperfectly drained (Wetness Class III) and the land is limited to Subgrade 3a by soil wetness.

2.3 Subgrade 3b

The remainder of the agricultural land falls within Subgrade 3b. Soils consist of very slightly stony medium and heavy clay loam topsoils, overlying stoneless, gleyed, slowly permeable clay subsoils. The slowly permeable layer occurs at or above 35cm. These soils are poorly drained (Wetness Class IV) and the land is limited to Subgrade 3b by soil wetness and workability limitations.

2.4 Non Agricultural

Non-agricultural land consists of a farm track and adjacent scrubland.

MAP