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AGRICULTURAL LAND CLASSIFICATION
BEVERLEY BOROUGH LOCAL PLAN
SITE 3, BOOTHFERRY ROAD, HESSLE
JANUARY 1993

KH/92

141/92

ADAS
Leeds Statutory Centre

Job No:- /93
MAFF Ref:-

2FCS 6293

Site3hes.alc.mp

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SUMMARY

An Agricultural Land Classification survey of approximately 20.6ha of land at Boothferry Road, Hessle was carried out in January 1993.

20.3ha of this was in agricultural use of which 5.8ha falls within Grade 2. Soils on this land are moderately well drained (Wetness Class II) and consist of medium clay loam topsoils over sandy clay loam upper subsoils overlying slowly permeable heavy clay loam and sandy clay loam subsoils. These soils are limited to Grade 2 by slight wetness.

Subgrade 3a land covers 8.5ha. Soils are imperfectly drained (Wetness Class III) and consist of medium clay loam topsoils over heavy clay loam subsoils. Profiles of this type are limited to Subgrade 3a by wetness problems.

Subgrade 3b land covers 6.0ha. Soils are poorly drained (Wetness Class IV) and consist of medium and heavy clay loam topsoils over gleyed slowly permeable heavy clay loam subsoils. These soils are limited to Subgrade 3b by wetness and workability problems.

AGRICULTURAL LAND CLASSIFICATION REPORT: BEVERLEY BOROUGH LOCAL PLAN. BOOTHFERRY ROAD, HESSLE

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The site lies 7 Km west of Hull City Centre and is centred on Grid Reference TA 025272. Survey work was carried out in January 1993 when soils were examined by hand auger borings at a density of one boring per hectare at points predetermined by the National Grid. 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 98% of the site was under permanent pasture, arable or rough grazing. The remainder consisted of a woodland strip and some temporary buildings.

Site altitude varies from 15m AOD to 35m AOD and the land is level to gently sloping.

1.3 Climate

Grid Reference	: TA 025272
Altitude (m)	: 30
Accumulated Temperature above 0°C (January-June)	: 1370 day°C
Average Annual Rainfall (mm)	: 665
Climatic Grade	: 1
Field Capacity Days	: 145
Moisture Deficit (mm) Wheat	: 105
Moisture Deficit (mm) Potatoes	: 96

1.4 Geology, Soils and Drainage

The area is underlain by chalk over which there is a cover of boulder clay (till). In the west and centre of the site, soils consist of medium clay loam topsoils over moderately well drained and imperfectly drained (Wetness Classes II and III) gleyed sandy clay loam and slowly permeable heavy clay loam subsoils. In the east soils consist of medium and heavy clay loam topsoils over gleyed poorly drained (Wetness Class IVB) slowly permeable heavy clay loam subsoils. Soils over the site as a whole are similar to those mapped as the Burlingham and Holderness Associations by the Soil Survey and Land Resource Centre.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Are
1		
2	5.84	28.3
3a	8.49	41.1
3b	6.01	29.1
4		
5		
(Sub total)	(20.34)	(98.5)
Urban		
Non Agricultural	0.3	1.5
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.3)	(1.5)
TOTAL	20.64	100

2.1 Grade 2

Land in this grade occurs in the north west of the site. Topsoils consist of stoneless or very slightly stony medium clay loam and overlie unmottled permeable sandy clay loam upper subsoils. Lower subsoils are formed very slightly stony, gleyed, slowly permeable (at or below 65cm depth), sandy clay loam or heavy clay loam. Profiles are moderately well drained (Wetness Class II) and are limited to Grade 2 by slight wetness problems.

2.2 Subgrade 3a

Land in this subgrade occurs in the south west and central northern parts of the site. Topsoils consist of stoneless to very slightly stony medium clay loam and overlie strongly mottled stoneless or very slightly stony heavy clay loam subsoils. Profiles are imperfectly drained (Wetness Class III) and slowly permeable at or below 40cm depth. They are limited to Subgrade 3a by wetness problems.

2,3 Subgrade 3b

Land in this subgrade occurs in the eastern part of the site. Soils consist of stoneless to very slightly stony medium or heavy clay loam topsoils overlying stoneless to very slightly stony, gleyed, slowly permeable heavy clay loam subsoils. Profiles are slowly permeable within 35cm of the surface and are thus poorly drained (Wetness Class IV). They are limited to Subgrade 3b by wetness and workability problems.

2.3 Non-Agricultural

This category consists of woodland and a track crossing the site.

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