



ADAS

FOOD, FARMING, LAND & LEISURE

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT:

COMMON LANE, WOODHOUSE, BELTON, SOUTH HUMBERSIDE

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:-

SE 782085.

Location Details:-

4½ km north of Epworth, Isle of Axholme, South Humberside immediately south of junction 2 on the M180 motorway.

Site Size:-

Site = 4.34 ha.

Area from northern edge of site to M180 = 5.70 ha.

1.2 Survey Methods

Date Surveyed:-

September 1991.

Boring Density and Spacing Basis:-

More than one per hectare at points predetermined by the National Grid.

Sampling Method:-

By hand auger to a depth of 1.00 m.

Number of Borings:-

17.

All land quality assessments were made 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)".

1.3 Land Use:- Arable.

1.4 Climate and Relief

Average Annual Rainfall (AAR):- 588 mm

Accumulated Temperature above
0°C (January-June):- 1412 \day °C

Field Capacity Days:- 122 days

Altitude average:- 5 m a.o.d.

maximum:- 5 m a.o.d.

minimum:- 5 m a.o.d.

Climatic limitation (based on
interaction of rainfall and
temperature values):- None.

Relief:- Flat.

Slopes (°):- 0-1°

Gradient Limitations:- None.

Limiting gradient(s):- None.

1.5 Geology and Soil

Solid Strata:- Mercia mudstone (Keuper Marl).

Depth of solid rock from surface:- Less than 1.00 m.

Drift types:- None.

Soil Types and Distribution:- Heavy textured soils cover the
whole site.

Soil Textures (topsoils and subsoils):- Generally heavy clay loam to clay topsoil overlying reddish clay or silty clay subsoil.

Soil Series/Associations:-

On 1/250000 map:- Brockhurst II Association.
Identified on site:- Spetchley and Brockhurst Series.

Soil Limitations and type:- Heavy texture.

1.6 Drainage

Soil type and Wetness Class:- Heavy textured soils occur throughout the site and all fall in Wetness Class III.

Drainage Limitations:- Good drainage is difficult to achieve because of the slowly permeable nature of the subsoil.

2.0 Agricultural Land Classification Grades

The ALC grades occurring on the site are as follows:-

<u>Grade/Subgrade</u>	<u>Hectares</u>	<u>Percentage of Agricultural Area</u>	<u>Percentage of Total Area</u>
3b	9.79*	100	97.5
Non Agricultural	0.25**	-	2.5
	<hr/>	<hr/>	<hr/>
	10.04	100	100
	<hr/>	<hr/>	<hr/>

* 4.34 ha of 3b on the site plus 5.45 ha on the area between the northern edge of the site and the M180 motorway.

** This is within the additional area adjoining the motorway.

Subgrade 3b

Distribution on site:-

Subgrade 3b land covers the entire area* with the exception of a small area of non agricultural land in the north eastern corner.

Soil Type(s) and Texture(s):-

Soils throughout the site and adjoining land are heavy textured, with heavy clay loam to clay topsoils over silty clay or clay subsoils.

Depth to Slowly Permeable Layers:-

Slowly permeable layers generally occur below about 30 cm depth.

Wetness and Drainage Class:-

Soils fall within Wetness Class III (imperfectly drained).

Stone Percentage and Type:-

Topsoils are generally stoneless but subsoils contain 10-20% fragmented mudstone in places.

Grade Limiting Factors:-

Soil wetness and workability problems.

* Includes application site and adjoining area.

Non Agricultural

Type and location of land included:- A small area of scrubland in the north eastern corner of the site.

Resource Planning Group
Leeds Regional Office
October 1991

MAP