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AGRICULTURAL LAND CLASSIFICATION
BEVERLEY BOROUGH LOCAL PLAN
SITE 2A, TRANBY CROFT FARM
TRANBY LANE, KIRKELLA
DECEMBER 1992

134/92

ADAS
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SUMMARY

An Agricultural Land Classification Survey of approximately 2 ha of land in the area between Tranby Croft Farm and Tranby Lane was carried out in December 1992. All of this is in agricultural use of which 1.0 ha falls within Grade 2, 0.5 ha within Subgrade 3a and 0.5 ha within Subgrade 3b.

The Grade 2 land contains deep moderately well drained medium textured soils which pass into boulder clay at a depth of 60 cm or more. This land is limited to Grade 2 by slight winter wetness problems. The Subgrade 3a areas are similar except that slowly permeable boulder clay occurs within 50 cm of the surface, thus increasing the winter wetness problem. The Subgrade 3b land consists of poorly drained heavy soils in which medium textured topsoils directly overlie heavy boulder clay. Soils of this type are limited to Subgrade 3b by wetness and workability problems.

CONTENTS

1. INTRODUCTION AND SITE CHARACTERISTICS

2. AGRICULTURAL LAND CLASSIFICATION GRADES

MAP

1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT: BEVERLEY BOROUGH LOCAL PLAN, SITE 2A, TRANBY CROFT FARM, TRANBY LANE, KIRKELLA

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods.

The site, centred on National Grid Reference TA 023284, lies on the southern side of Tranby Lane (B1231) adjoining Tranby Croft Farm. It covers a total of 1.94 ha. Survey work was carried out in December 1992 when soils were examined by hand auger borings at a density of 4 borings per hectare at points predetermined by the National Grid. Two soil pits were also dug to allow the assessment of 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 survey all of the area was in arable use.

The site is located on the southern side of a shallow dry valley and much of it has gentle or moderate (1° - 4°) north facing slopes. Altitude varies from 25 - 30m A.O.D.

1.3 Climate

Grid Reference	:	TA023284
Altitude (m)	:	25
Accumulated Temperature above 0°C (January-June)	:	1376 day °C
Average Annual Rainfall (mm)	:	663
Climatic Grade	:	1
Field Capacity Days	:	146
Moisture Deficit (mm) Wheat	:	105
Moisture Deficit (mm) Potatoes	:	95

1.4 Geology, Soils and Drainage

The site is underlain by chalk over which there is a cover of medium to heavy textured boulder clay and loamy colluvial deposits. Boulder clay occurs close to the surface along the sloping southern half of the site. Here soils consist of medium clay loam topsoils directly overlying strongly mottled slowly permeable boulder clay. Chalk stones are common in places suggesting that the underlying chalk is close. Most profiles are imperfectly or poorly drained and fall within Wetness Classes III and IV.

In the northern lower lying part of the site, loamy colluvial material overlies the boulder clay resulting in deeper soils. Topsoils and upper subsoils consist of medium clay loam or sandy clay loam and overlie boulder clay at depths of 50 - 50m. Profiles of this type are moderately well drained and fall within Wetness Class II.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	0.99	51.0
3a	0.48	24.7
3b	0.47	24.3
4		
5		
(Sub total)	(1.94)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	1.94	100

2.1 Grade 2

Grade 2 land occurs in the lower lying northern part of the site. Upper horizons in this area are formed in loamy colluvial material which overlies the boulder clay. Topsoils consist of medium clay loam or fine sandy clay loam. Upper subsoils are of a similar texture and unmottled, but pass into the underlying slowly permeable boulder clay at a depth of 50 - 60 cm. Profiles are moderately well drained (Wetness Class II) and limited to Grade 2 by very slight winter wetness.

2.2 Subgrade 3a

This subgrade occurs as narrow strips on the gently sloping central and north western parts of the site. In these areas topsoils and upper subsoils are similar to those on the adjoining Grade 2 land, but pass into boulder clay at shallower depth, usually at 35 - 40 cm. This results in increased wetness in the upper horizons; most profiles are thus imperfectly drained (Wetness Class III) and limited to Subgrade 3a by slight wetness.

2.3 Subgrade 3b

Subgrade 3b land occurs on the higher ground along the southern edge of the site and in the north western corner. Soils are developed in boulder clay and consist of medium clay loam topsoils directly overlying at 30 - 35 cm depth, slowly permeable mottled reddish heavy clay loam. Soils of this type are, in most cases, poorly drained (Wetness Class IV) and limited to Subgrade 3b by wetness and workability problems.

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MAP