



AGRICULTURAL LAND CLASSIFICATION
BEVERLEY BOROUGH LOCAL PLAN
SITE 2, TRANBY LANE, (WEST ELLA GRANGE), KIRKELLA

DECEMBER 1992

133/92

ADAS
Leeds Statutory Group

Job No:- 133/92
MAFF Ref:-

TRANBTWO.AL7/MHT

SUMMARY

An Agricultural Land Classification survey of approximately 20 ha of land at West Ella Grange, Kirkella was carried out in December 1992.

19 ha of this is in agricultural use, of which only 1 ha falls within Subgrade 3a. Soils within this subgrade consist of imperfectly drained deep medium clay loam topsoils over heavy clay loam or sandy clay loam subsoils. They are limited to Subgrade 3a by wetness.

Subgrade 3b land covers 18 ha. Soils are formed of poorly drained (Wetness Class IV) medium or heavy clay loam topsoils directly overlying slowly permeable 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 2, WEST ELLA GRANGE, KIRKELLA

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods.

The site is located around Grid Reference TA 016 286, north of the B12 31 between the West Ella Grange and the Cemetery. It covers a total area of 20.3 ha. Survey work was carried out in December 1992 when soils were examined by hand auger borings at 100m intervals at points predetermined by the National Grid. Land quality was assessed using the methods described in "Agricultural Land Classification of England and Wales" (MAFF 1988).

1.2 Land Use and Relief

Approximately 95% of the total area is in arable use. The site slopes gently to the south east.

1.3 Climate

Grid Reference	:	TA016286
Altitude (m)	:	40
Accumulated Temperature above 0°C (January-June)	:	1358
Average Annual Rainfall (mm)	:	671
Climatic Grade	:	1
Field Capacity Days	:	148
Moisture Deficit (mm) Wheat	:	102
Moisture Deficit (mm) Potatoes	:	93

1.4 Geology, Soils and Drainage

The site is underlain by chalk over which there is a cover of North Sea boulder clay (till). Soils developed on the till consist of medium or heavy clay loam topsoils over slowly permeable heavy clay loam or clay subsoils. Most profiles are imperfectly or poorly drained and fall within Wetness Classes III and IV. 2.

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		
3a	1.22	6.0
3b	18.10	89.1
4		
5		
(Sub total)	(19.32)	(95.1)
Urban		
Non Agricultural	1.0	4.9
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
	_____	_____
TOTAL	20.32	100
	_____	_____

2.1 Subgrade 3a

Two small areas of Subgrade 3a occur on the western and southern edges of the site. Soils consist of very slightly stony deep medium clay loam topsoils overlying stoneless sandy clay loam or heavy clay loam subsoils. Profiles are slowly permeable below about 40 cm depth and thus fall within Wetness Class III (imperfectly drained). Land of this type is limited to subgrade 3a by slight soil wetness.

2.2 Subgrade 3b

Most agricultural land on the site falls within this subgrade. Soils consist of very slightly stony medium or heavy clay loam topsoils over boulder clay subsoils formed of slightly stony heavy clay loam or clay. Most profiles are poorly drained (Wetness Class IV) and soil wetness is the main factor limiting this land to Subgrade 3b.

2.3 Non Agricultural

The non agricultural land on the site consists of two small areas of scrub/woodland.

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MAP