



AGRICULTURAL LAND CLASSIFICATION  
BOOTHFERRY LOCAL PLAN  
PROPOSED ALLOCATIONS E2C AND E3  
GOOLE, HUMBERSIDE.  
JULY 1995

ADAS  
Leeds Statutory Group

Job No:- 152/95  
MAFF Ref:- EL51/21A  
Commission No: 1952

## SUMMARY

A detailed Agricultural Land Classification survey of 58.9 ha of land south of Junction 36 of the M62 motorway (Boothferry Local Plan proposed allocations E2C and E3) was carried out between 1982 and 1989. All of the area was in agricultural use at the time of the survey. 42.5 ha of Site E2C and 6.7 ha of Site E3 was of Grade 2 quality. The soils are moderately well drained, generally consisting of calcareous heavy textured topsoils over similar gleyed subsoils which are slowly permeable below 65 cm depth. Lenses of medium to light textured material occur within the subsoil in places. This land is limited to Grade 2 by a slight soil wetness restriction.

8.7 ha of Site E2C and 1.0 ha of Site E3 is Subgrade 3a quality. Two soil types occur in this subgrade. The first consists of medium to light textured topsoils and upper subsoils overlying slowly permeable clay below 50 cm depth. These soils are well drained or moderately well drained and the land is restricted to this subgrade by susceptibility to drought. The second soil type consists of calcareous heavy textured topsoils overlying heavy subsoils which are slowly permeable within 65 cm depth. These soils are imperfectly drained and the land is restricted to Subgrade 3a by soil wetness limitations.

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PROPOSED ALLOCATIONS E2C AND E3

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The ALC of land covered by Sites E2C and E3 has been described in previous reports prepared by ADAS Leeds Resource Planning Team. Results of earlier surveys have been combined to reflect the site boundaries of the current proposed allocations for Boothferry Local Plan.

Sites E2C and E3 are adjacent to one another. They are situated to the south of Junction 36 of the M62 motorway, approximately 2 km west of Goole town centre. Site E2C is centred around National Grid Reference SE 723 233. Site E3 is centred around National Grid Reference SE 720 236.

Survey work was carried out between 1982 and 1989. Soils were examined by hand auger borings at points predetermined by the National Grid at a minimum density of 1 boring per hectare. Soil profile pits were dug to assess subsoil structure. Soils information collected before 1989 has been reinterpreted to allow land quality to be assessed using the techniques described in "Agricultural Land Classification of England and Wales: Revised guidelines for assessing the quality of agricultural land" (MAFF, 1988).

1.2 Land Use and Relief

At the time of survey all land on both sites was in agricultural use for arable crops. Both sites are level, lying at 3 m altitude OD.

1.3 Climate

As the sites were adjacent and at the same elevation, one data point was used to derive climate data.

Grid Reference	: SE 720 236
Altitude (m)	: 3
Accumulated Temperature above 0°C	
(January - June)	:1409 day°C
Average Annual Rainfall (mm)	: 592
Climatic Grade	: 1
Field Capacity Days	: 125
Moisture Deficit (mm) Wheat	: 112
Moisture Deficit (mm) Potatoes	: 105

#### 1.4 Geology, Soils and Drainage

The whole area is underlain by lacustrine clays. Soils over most of the sites are formed in calcareous silty clay loam or silty clay marine alluvium (warp). This forms a cover of variable thickness over the clay. Lenses of glaciofluvial sand of variable thickness are common in the north and centre of Site E2C and in the south of Site E3, covering the clay to a depth of up to 100 cm.

Soils formed in the warp generally consist of calcareous, heavy textured topsoils and frequently gleyed upper subsoils overlying slowly permeable lacustrine clay at between 40 cm and 80 cm depth. These soils are moderately well drained or imperfectly drained, falling within Wetness Class II or III. The soils formed in glacio-fluvial sand generally consist of medium to light textured topsoils over light textured upper subsoils, with clay lying at between 40 cm and 100 cm depth. These soils are generally well drained or moderately well drained, falling within Wetness Class I or II.

## 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>		
	<u>E2C</u>	<u>E3</u>	<u>Combined E2C &amp; E3</u>	<u>E2C</u>	<u>E3</u>	<u>Combined E2C &amp; E3</u>
1						
2	42.5	6.7	49.2	83.0	87.0	83.5
3a	8.7	1.0	9.7	17.0	13.0	16.5
3b						
4						
5						
(Sub total)	(51.2)	(7.7)	(58.9)	(100)	(100)	(100)
Urban						
Non Agricultural						
Woodland - Farm						
- Commercial						
Agricultural Buildings						
Open Water						
Land not surveyed						
(Sub total)						
<b>TOTAL</b>	<u>51.2</u>	<u>7.7</u>	<u>58.9</u>	<u>100</u>	<u>100</u>	<u>100</u>

### 2.1 Grade 2

Grade 2 land lies across Site E2C and in the north of Site E3. Topsoils are heavy textured, generally consisting of calcareous heavy silty clay loam or silty clay. Subsoils generally consist of similar textured material which is gleyed and slowly permeable below 65 cm depth. Lenses of lighter textured material (medium sand, loamy medium sand or medium sandy loam) occurs within the subsoils in some parts of the site. These soils are moderately well drained, falling within Wetness Class II. The land is limited to Grade 2 by a slight soil wetness restriction.

## 2.2 Subgrade 3a

Land of this quality occurs in the north and centre of Site E2C and in the south of Site E3. Two soil types occur. The first consists of light to medium textured topsoils (loamy medium sand or medium sandy loam) overlying similar upper subsoils, sometimes with clay at depth. These soils are well drained or moderately well drained (Wetness Class I or II) and the land is limited to Subgrade 3A by soil droughtiness.

The second soil type consists of soils with calcareous clay or silty clay topsoils overlying similar textured subsoils which are slowly permeable at around 65 cm depth. These soils are imperfectly drained (Wetness Class III) and the land is limited to Subgrade 3a by soil wetness and workability restrictions.

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MAP