

AGRICULTURAL LAND CLASSIFICATION

Grove Wharf, Gunness  
Scunthorpe  
South Humberside

Proposed Warehouse Development

MAFF  
Leeds Regional Office

September 1991  
File Ref: 2FCS 5581  
Project No: 99/91

lds.AL4.Grove.Wrf

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT  
GROVE WHARF, GUNNESS, SCUNTHORPE, SOUTH HUMBERSIDE

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:- SE 848126  
Location Details:- 4 km NW of Scunthorpe town  
centre on the eastern bank  
of the River Trent.

Site Size:- 4.36 ha

1.2 Survey Methods

Date Surveyed:- 20 September 1991

Boring Density and Spacing Basis:- Between one and two borings  
per hectare at points  
pre-determined by the  
National Grid.

Sampling Method:- By hand auger, to a depth of  
1.00 m.

Number of Borings:- 6

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:- All land is in arable use.

#### 1.4 Climate and Relief

Average Annual Rainfall (AAR):-	621 mm
Accumulated Temperature above 0°C (January-June):-	1409 day °C
Field Capacity Days:-	136 days
Altitude average:-	3 m a.o.d.
maximum:-	3 m a.o.d.
minimum:-	3 m a.o.d.
Climatic limitation (based on interaction of rainfall and temperature values):-	None
Relief:-	Flat
Slopes (° ):-	0°
Gradient Limitations:-	None

#### 1.5 Geology and Soil

Solid Strata:-	Mercia mudstone (Keuper Marl)
Depth of solid rock from surface:-	At considerable depth
Drift types:-	Estuarine Alluvium
Thickness of drift and distribution:-	Considerable thickness over the whole site
Soil Types and Distribution:-	Calcareous heavy to medium warp soils cover the entire site

Soil Textures (topsoils and subsoils):- Heavy textured soils  
consisting of heavy silty  
clay loam topsoils over  
heavy silty clay loam, silty  
clay or silt loam subsoils

Soil Series/Associations:-

On 1/250000 map:-

Blacktoft Association

Identified on site:-

Blacktoft Association

Soil Limitations and type:-

Heavy topsoil texture and  
thus soil workability

#### 1.6 Drainage

Soil type and Wetness Class:-

The soils are generally well  
drained, falling within  
Wetness Class I

Drainage Limitations:-

None

## 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 Total</u> <u>Area</u>
2	<u>4.36</u>	<u>100</u>
Total	<u>4.36</u>	<u>100</u>

Grade 2

Distribution on site:-

Grade 2 land covers the whole area.

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

Calcareous warp soils with heavy silty clay loam topsoils over heavy silty clay loam, silty clay or silt loam subsoils.

Depth to Slowly Permeable Layers:-

There are no slowly permeable layers in most profiles.

Wetness and Drainage Class:-

Mainly Wetness Class I. Well drained.

Stone Percentage and Type:-

Soils are generally stoneless.

Grade Limiting Factors:-

Heavy textured topsoils limit soil workability and this is the principal limiting factor on ALC grade.

Resource Planning Group  
Leeds Regional Office  
September 1991

MAP