

AGRICULTURAL LAND CLASSIFICATION

Broughton Grange Farm,
Stokesley, North Yorkshire

Proposed Golf Course

MAFF
Leeds Regional Office

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON THE PROPOSED GOLF COURSE
AT BROUGHTON GRANGE FARM, STOKESLEY, NORTH YORKSHIRE

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:- NZ547050
Location Details:- Approximately 1 Km south of Great Broughton
adjacent to the B1257.

Site Size:- 67 ha

1.2 Survey Methods

Date Surveyed:- 23 and 31 May 1991

Boring Density and Spacing Basis:- 1 per 100 m at points
pre-determined by the
National Grid.

Sampling Method:- Hand Auger borings to a
depth of 1m.

Number of Borings:- 66

Number of Soil Pits (used for):- -

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:- Mainly arable

1.4 Climate and Relief

Average Annual Rainfall (AAR):- 797 mm

Accumulated Temperature above
0°C (January-June):- 1244 day °C

Field Capacity Days:- 205 days

Altitude average:- 120 m a.o.d.

 maximum:- 111 m a.o.d.

 minimum:- 78 m a.o.d.

Climatic limitation (based on
interaction of rainfall and
temperature values:- Grade 2

Gradient Limitations:- None

1.5 Geology and Soil

Solid Strata:-	Lias Clay
Depth of solid rock from surface:-	1 m+
Drift types:-	Boulder Clay
Thickness of drift and distribution:-	More than 1 m over the whole site.

Soil Types and Distribution:- Heavy gleyed clays over the whole of the site except for the eastern edge where topsoils are lighter and clay occurs only at depth.

Soil Textures (topsoils and subsoils):- Heavy clay loam and occasional medium clay loam topsoils over gleyed slowly permeable clay subsoils.

Soil Associations:-

On 1/250,000 map:-	Dunkeswick II
Identified on site:-	Dunkeswick Series

Soil Limitations and type:- Wetness and workability problems.

1.6 Drainage

Soil type and Wetness Class:- Heavy boulder clays:- Wetness Class IV.
Medium clay loam topsoil areas:-
Wetness Class III.

Drainage Limitations:- Slowly permeable subsoils.

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>
3a	5.1	8.1	7.6
3b	57.7	91.9	86.1
Non Agricultural	1.4	-	2.1
Agricultural Buildings			
Urban	2.8	-	4.2
Other			
Total	<u>67.0</u>	<u>100</u>	<u>100</u>

Subgrade 3a

Distribution on site:- Along the eastern edge of the site adjoining the B1257.

Soil Type(s) and Texture(s):- Medium clay loam over unmottled heavy clay loam over gleyed and slowly permeable clay to depth.

Depth to Slowly Permeable Layers:- Approximately 65 cm.

Wetness and Drainage Class:- Wetness Class III predominantly, imperfectly to poorly drained.

Stone Percentage and Type:- Up to 10% hard rock on surface.

Grade Limiting Factors:- Wetness and workability.

Other Limiting Factor(s):-

Subgrade 3b

Distribution on site:- Majority of the site.

Soil Type(s) and Texture(s):- Heavy clay loam topsoils passing to gleyed slowly permeable clay at 25-30 cm depth.

Depth to Slowly Permeable Layers:- from 25 cm.

Wetness and Drainage Class:- Class IV
Poorly drained

Stone Percentage and Type:- Up to 15% hard rock.

Grade Limiting Factors:- Wetness and workability problems.

Other Limiting Factor(s):-

Non Agricultural

Type and location of land included:- A strip of woodland running alongside
Bradley Beck.

Agricultural Buildings

Type and location of building included:- -

Urban

Type of land use included:- Assorted buildings and yard at Broughton
Grange Farm.

Resource Planning Group
Leeds Regional Office
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MAP