## AGRICULTURAL LAND CLASSIFICATION

Ravensworth Estate Gateshead Proposed Golf Course

MAFF Leeds Regional Office

July 1991 File Ref: 2FCS 5326 Project No: 34/91

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT

#### 1.0 Introduction and Site Characteristics

#### 1.1 Location

National Grid Reference:-	NZ 235590	
Location Details:-	Adjacent to A1 to the	
	west of the Team Valley	
	Estate approximately	
	3 km from Gateshead.	
Site Size:-	125 hectares.	

1.2 Survey Methods

Date Surveyed:- 15/16 May 1991.

Boring Density and Spacing Basis:-

Sampling Method: -

Number of Borings:-

National Grid.

Hand auger borings to a depth of 1 m.

1 per 100 m at points

predetermined by the

105.

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)".

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# 1.3 Climate and Relief 702 mm Average Annual Rainfall (AAR):-Accumulated Temperature above 1285 day °C 0°C (January-June):-Field Capacity Days:-174 days 70 m a.o.d. Altitude average:-1.10 m a.o.d. maximum:minimum:-30 m a.o.d. Climatic limitation (based on interaction of rainfall and Grade 2 temperature values:-Gradient Limitation Limiting gradient(s):-13° Grade(s)/subgrade(s):-3Ъ Western side of site. Occurrence on site:-1.4 Geology and Soil Solid Strata:-Coal measures. Depth of solid rock from surface:-More than 1 m in most places. Drift types:-Boulder clay. Thickness of drift and distribution:-At least 1 m in most

parts of the site.

## Soil Types and Distribution:-

Soil Textures (topsoils and subsoils):-

Medium and heavy textured poorly drained boulder clay soils occur over most of the site.

Medium and heavy clay loam over heavy clay loam or clay subsoils.

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Soil Associations:-On 1/250000map:-Identified on site:-

Soil Limitations and type:-

Brickfield. Brickfield and Dunkeswick.

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Heavy topsoil texture in many parts of the site. Stoniness is limiting locally.

#### 1.5 Drainage

Soil type and Wetness Class:- Boulder clays:-Wetness Classes II III and IV.

Drainage Limitations:-

Poor drainage caused by slowly permeable subsoil horizons affects mo st soils across the site.

## 2.0 Agricultural Land Classification Grades

The ALC grades occurring on the site are as follows:-

Grade/Subgrade	Hectares	Percentage of	Percentage of Total
		Agricultural Area	Area
3a	39.0	39.0	31.1
3b	61.2	61.0	48.8
Non Agricultural	21.9	-	17.5
(Woodland)			
Urban	3.2	-	2.6
Total	125.3	100	100

### Subgrade 3a

Distribution on site:-

In the north west, south west and south eastern corners and in a broad swathe from Ravensworth Castle to Robins Wood.

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

Boulder clay soils containing medium and heavy clay loam topsoils over medium or heavy clay loam and clay subsoils.

Approximately 65 cm in profiles with heavy clay loam topsoil and 40 cm in

profiles with medium clay loam

topsoil.

Depth to Slowly Permeable Layers:-

Wetness and Drainage Class:-

Heavy clay loam topsoils:- Wetness Class II; Medium clay loam topsoils:-Wetness Class III.

Stone Percentage and Type:-Up to 15% larger than 2 cm.Up to 10% larger than 6 cm.

Grade Limiting Factors:-

Wetness and workability problems.

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Distribution on site:-

Subgrade 3b

Soil Type(s) and Texture(s):- Boulder clay soils containing mainly medium and heavy clay loam topsoils over heavy clay loam or clay subsoils.

Depth to Slowly Permeable Layers:- Slowly permeable from 30 cm.

Wetness and Drainage Class:-

Stone Percentage and Type:-

Up to 20% hard rock and medium sandstones.

Mainly Wetness Class IV, poorly

Large areas in the northern and

the south and south western

boundaries.

drained.

central part of the site and towards

Grade Limiting Factors:- Severe wetness and workability problems in the central parts of the site, and strongly sloping gradients along the south western edge. Non Agricultural

Type and location of land included:- Mixed woodland between Shanks Wood and Ravensworth Castle, Robins Wood and Greenhouse Walks.

Urban

Type of land use included:-

Access roads through the site and dwellings at South Lodge, Rose Cottage and Sawmill Cottage, along with the derelict Ravensworth Castle.

Resource Planning Group Leeds Regional Office July 1991