AGRICULTURAL LAND CLASSIFICATION
AND STATEMENT OF PHYSICAL CHARACTERISTICS

Haigh Hall Farm, Tingley, West Yorkshire
Proposed Opencast Coal Site

MAFF November 1991

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MAP(S)

1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT,

1.0 Introduction and Site Characteristics

1.1 Location

National Grid Reference:-

Location Details:-

SE 285 238

4 km NE of Dewsbury

town centre

Site Size:-

14.96 ha

1.2 Survey Methods

Date Surveyed:-

4th October 1991

Boring Density and Spacing Basis:-

One boring per hectare carried out at 100 m intervals at points predetermined by the National Grid

Sampling Method:-

By hand auger, to a depth of 1.00 m

Number of Borings:-

13

Number of Soil Pits (used for):-

One, to collect further information on soil characteristics

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:-

Mostly ley grassland but there is also a tip and small areas of urban land, nonagricultural land and agricultural buildings in the north west of the site

1.4 Climate and Relief

Average Annual Rainfall (AAR):-

667 mm

Accumulated Temperature above

0°C (January-June):-

1,320 day °C

Field Capacity Days:-

161 days

Altitude average:-

code average.

maximum:-

85 m a.o.d.95 m a.o.d.

minimum:-

75 m a.o.d.

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

None

Relief:-

Moderately/steeply sloping from north to south

Slopes (°):-

Gradient Limitations:-

6° to 10°

7° to 11°

yes

Limiting gradient(s):-

Grade(s)/subgrade(s):-

3b

Occurrence on site:-

Mainly in the west of

the site

1.5 Geology and Soil

Solid Strata:- Carboniferous coal

measures

Depth of solid rock from surface:- 1-2 metres

Drift types:- None

Soil Types and Distribution:- Heavy textured soils

occur thoughout the

site

Soil Textures (topsoils and subsoils):- Heavy clay loam and

heavy silty clay loam topsoils overlying clay or silty clay subsoils

Soil Series/Associations:-

On 1/250000 map:- Dale Association

Identified on site:- Dale Association

Soil Limitations and type:- Heavy topsoil texture

1.6 Drainage

Soil type and Wetness Class:- Soils are poorly

drained (falling in Wetness Class IV)

throughout the site

Drainage Limitations:- Slowly permeable layers

generally begin at around 30 cm depth. As a result soil wetness is the overall limiting

factor on A.L.C grade

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
1	_		
2	-		
3a	_		
3b	13.04	100	87%
4	-		
5	-		
Non Agricultural	0.40		2.6%
Urban (including			
Agric Buildings)	1.52		10.2%
Other			<u> </u>
Total	14.96	100	100

Subgrade 3b

Distribution on site:-

The entire site with the exception of some non-agricultural and urban land and agricultural buildings in the north west of the site

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

Heavy textured soils heavy clay loam or
heavy silty clay loam
topsoils over clay or
silty clay subsoils

Depth to Slowly Permeable Layers:-

Slowly prmeable layers generally start at depths of around 30 cm

Wetness and Drainage Class:-

Soils in this subgrade are poorly drained falling in Wetness Class IV

Stone Percentage and Type:-

Stoneless

Grade Limiting Factors:-

Soil wetness and workability problems

Non Agricultural

Type and location of land included:-

An area of trees in the west of the site

Agricultural Buildings

Type and location of building included:-

Haigh Hall Farmhouse and buildings, in the NW of the site

Urban

Type of land use included:-

An existing tip and an access road in the west of the site and a concreted area beside Haigh Hall Farm

3.0 STATEMENT OF PHYSICAL CHARACTERISTICS (SOIL PROPERTIES AND RESOURCES)

3.1 Soil Properties

One soil types occur on the site. It's distribution along with soil depth and quantity information is shown on the accompanying maps.

Soil Type 1:- Heavy poorly drained soil derived from Coal

Measure Shales

Occurrence:- Throughout the site

Textures:- Heavy clay loam or heavy silty clay loam

topsoils overlying clay or silty clay

subsoils

Stone content:- Stoneless

Horizon thicknesses:- Topsoils 25-30 cm, subsoils 65-70 cm

Profile pit features:- Prismatic structured subsoil

3.2 Soil Resources

Topsoils

Unit T1

Texture/stone content:- Stoneless heavy (heavy clay loam)

Structure:- Moderately developed medium sub-angular

blocky

Occurrence:- Throughout the site

Thickness:- 25 cm

Subsoils

Unit S1

Texture/stone content:- Stoneless, heavy (silty clay)

Structure:- Moderately developed coarse pristmatic

Occurrence:- Throughout the site

Thickness:- 75 cm

Resource Planning Group Leeds Regional Office November 1991 MAP(S)