

AGRICULTURAL LAND CLASSIFICATION
A63 WEST OF A1, ADDITIONAL WORK
KIPPAX ROAD AND SELBY ROAD

FEBRUARY 1993

ADAS
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A63west.alc.mp

SUMMARY

An Agricultural Land Classification survey of approximately 18ha of land at Kippax Road, Garforth and Milestone Farm, Selby Road, Peckfield Bar, was carried out in February 1993.

14.3ha of this, excluding a small area not surveyed, was in agricultural use of which 4.8ha falls within Grade 2. Soils on this land are well drained (Wetness Class I) and consist of sandy clay loam topsoils over medium sandy loam and sandy clay loam subsoils or occasionally, weathering sandstone bedrock. These soils are limited to Grade 2 by slight droughtiness.

Subgrade 3a land covers 0.9ha. Soils are well drained (Wetness Class I) and consist of medium clay loam topsoils over permeable heavy clay loam upper subsoils, overlying weathering limestone bedrock at or below 50cm. Soils are limited to Subgrade 3a by droughtiness.

Subgrade 3b land covers 9.4ha. Soils consist of either poorly drained (Wetness Class IV) medium clay loam topsoils over heavy clay loam or clay subsoils, or well drained (Wetness Class I) medium sandy loam or sandy clay loam topsoils over loamy medium sand upper subsoils passing to sandstone bedrock at or above 60cm. Soils are limited either by wetness and workability or by droughtiness.

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1. AGRICULTURAL LAND CLASSIFICATION

AGRICULTURAL LAND CLASSIFICATION REPORT ON LAND AT KIPPAX ROAD AND SELBY ROAD. PROPOSED A63 WEST OF A1

1. INTRODUCTION AND SITE CHARACTERISTICS

1.1 Location and Survey Methods

The sites lie 1½Km south of Garforth Town centre at Grid Reference SE405317 and 2Km south east of Garforth Town centre on the Selby Road, at Grid Reference SE425317. Survey work was carried out in February 1993 when soils were examined by hand auger borings at a density of 1 boring per hectare at points predetermined by the National Grid. Extra borings were made where necessary to define grade boundaries. Land quality was assessed 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).

1.2 Land Use and Relief

At the time of the survey 82% of the site was in permanent pasture or arable use. The remainder consisting of non-agricultural or unsurveyed areas. Site altitude varies from 60m AOD to 80m AOD and the land is level to gently sloping.

1.3 Climate

| | | |
|--|---|------------|
| Grid Reference | : | SE405317 |
| Altitude (m) | : | 80 |
| Accumulated Temperature above 0° (January-June) | : | 1324 day°C |
| Average Annual Rainfall (mm) | : | 671 |
| Climatic Grade | : | 1 |
| Field Capacity Days | : | 150 |
| Moisture Deficit (mm) Wheat | : | 97 |
| Moisture Deficit (mm) Potatoes | : | 86 |

1.4 Geology, Soils and Drainage

The larger area in the west is underlain by Carboniferous Coal measures consisting of interbedded sandstones and shales. The small eastern area is underlain by Lower Magnesian Limestone. There is no drift cover and soils are formed directly on weathering solid strata. On the shales soils consist of medium clay loam topsoils over poorly drained (Wetness Class IV) gleyed slowly permeable heavy clay loam or clay subsoils. The areas of limestone contain well drained (Wetness Class I) medium textured topsoils and subsoils overlying limestone bedrock at varying depth.

2. AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on these sites are as follows:

| <u>Grade/Subgrade</u> | <u>Hectares</u> | <u>Percentage of Total Area</u> |
|------------------------|-----------------|---------------------------------|
| 1 | | |
| 2 | 4.8 | 27.6 |
| 3a | 0.9 | 0.6 |
| 3b | 9.4 | 54.0 |
| 4 | | |
| 5 | | |
| (Sub total) | (15.1) | (82.2) |
| Urban | 0.8 | 4.6 |
| Non Agricultural | 1.0 | 5.7 |
| Woodland - Farm | | |
| - Commercial | | |
| Agricultural Buildings | | |
| Open Water | | |
| Land not surveyed | 1.3 | 7.5 |
| (Sub total) | (3.1) | (17.8) |
| | <hr/> | <hr/> |
| TOTAL | 18.2 | 100 |
| | <hr/> | <hr/> |

2.1 Grade 2

Land in this grade occurs in the centre of the large site. Soils consist of very slightly stony sandy clay loam topsoils overlying very slightly stony well drained (Wetness Class I) occasionally mottled medium sandy loam and sandy clay loam subsoils. Soils of this type are limited to Grade 2 by slight droughtiness.

2.2 Subgrade 3a

Land in this subgrade occurs at the eastern edge of the main site and over the whole of the small site on the Selby Road. Soils consist of stoneless medium clay loam topsoils over very slightly stony, permeable heavy clay loam upper subsoils overlying heavy clay loam with up to 50% of soft limestone. Limestone bedrock occurs at or below 50cm. Soils of this type are limited to Subgrade 3a by slight droughtiness.

2.3 Subgrade 3b

Land in this subgrade occurs in the eastern part of the larger site (Kippax Road) and over small areas further west, around the Grade 2 land. Soils formed over shale and consist of stoneless medium clay loam topsoils, overlying stoneless poorly drained (Wetness Class IV) mottled, gleyed slowly permeable heavy clay loam or clay subsoils. Soils of this type are limited to Subgrade 3b by wetness and workability problems. Soils over sandstone consist of very slightly stony well drained (Wetness Class I) medium sandy loam or sandy clay loam topsoils over very slightly to moderately stony loamy medium sand upper subsoils. Sandstone bedrock occurs at or below 60cm. Soils of this type are limited to Subgrade 3b by droughtiness.

2.4 Non-Agricultural

Non-Agricultural land consists of private gardens around Southfield Bungalow and Field House.

2.5 Urban

Urban land consists of the Kippax Road running through the site and private dwellings.

2.6 Not Surveyed

This consists of where access was refused.

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MAP