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MAFF Ministry of Agriculture Fisheries and Food

AGRICULTURAL LAND CLASSIFICATION
HAMBLETON DISTRICT PLAN
NORTH YORKSHIRE
JULY 1995

ADAS
Leeds Statutory Group

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CONTENTS

AGRICULTURAL LAND CLASSIFICATION REPORT ON THIRTY SITES FOR POSSIBLE INCLUSION INTO THE HAMBLETON DISTRICT PLAN

1. INTRODUCTION

Survey work was carried out on a number of sites in Hambleton District in June 1995, when soils were examined by hand auger borings at 100m intervals pre-determined by the National Grid. Soil pits were dug to allow soil types to be described in greater detail. In each case the 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)

2.1 Site 033A

This site was not surveyed due to access problems.

2.2 Site 038A, 038B & 038C

2.2.1 Location Land Use and Relief

Sites 38A, B and C are adjacent and are described together below. The land lies around National Grid Reference SE 564 665 to the north of Huby village. At the time of survey all the land was in arable use.

Average altitude is 31 m A.O.D. and slopes are level or gentle and do not limit ALC grade.

2.2.2 Climate

Grid Reference	: SE 564 665
Altitude (m)	: 31
Accumulated Temperature above 0°C (January - June)	: 1362 day °C
Average Annual Rainfall (mm)	: 640
Climatic Grade	: 1
Field Capacity Days	: 147
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 92

2.2.3 Geology, Soils and Drainage

The area is underlain with Middle Lias Clay. This is covered with drift deposits of boulder clay in the south of site 38B and all of 38A. The north of 38B and all of 38C contained drift deposits of sand and gravel.

Soils are light to very light and well drained over the sand and gravel. Over the boulder clay topsoils are medium textured and subsoils heavy textured and slowly permeable (Soil Wetness Class III).

2.2.4 AGRICULTURAL LAND CLASSIFICATION Site 38A

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	1.5	100
3b		
4		
5		
(Sub total)	(1.5)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	1.5	100

2.2.5 AGRICULTURAL LAND CLASSIFICATION Site 38B

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	0.5	33.3
3b	1.0	66.6
4		
5		
(Sub total)	(1.5)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	1.5	100

2.2.6 AGRICULTURAL LAND CLASSIFICATION Site 38C

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	2.5	100
4		
5		
(Sub total)	(2.5)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	2.5	100

2.2.7 Subgrade 3a

This Subgrade covers all of 38A and part of 38B. Topsoils are light to medium textured over heavy textured slowly permeable subsoils. Soil wetness and workability limit the ALC grade.

2.2.8 Subgrade 3b

This Subgrade covers all of 38C and part of 38B. Topsoils are light textured over very light subsoils. Profiles are well drained but limited to Subgrade 3b by droughtiness.

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MAP

2.3 Site 034K

2.3.1 Location, Land Use and Relief

Site034K lies ½ km south west of Easingwold town centre. It is centred around National Grid Reference SE 525 695. It covers a total area of 12.0 ha, of which 11.4 ha is in arable production. The remaining 0.6 ha consists of private houses and gardens. Site altitude is 32m AOD and the land is level (0-1°)

2.3.2 Climate

Grid Reference	: SE 525695
Altitude (m)	: 32
Accumulated Temperature above 0°C (January - June)	: 1361 day °C
Average Annual Rainfall (mm)	: 642
Climatic Grade	: 1
Field Capacity Days	: 150
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 92

2.3.3 Geology, Soils and Drainage

The area is underlain by the Mercia Mudstone Group with drift cover of till and blown sand. Soils formed over the blown sand are well drained, falling into Wetness Class I and consist of medium sandy loam topsoils over loamy medium sand and medium sand subsoils. Soils formed over the till consist of medium sandy loam topsoils over heavy clay loam or sandy clay loam upper subsoils, in turn over clay lower subsoils. These soils are moderately well to imperfectly drained (Wetness Class II and III).

2.3.4 AGRICULTURAL LAND CLASSIFICATION Site 034K

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	3.1	25.8
3a	8.3	69.2
3b		
4		
5		
(Sub total)	(11.4)	(95.0)
Urban	0.6	5.0
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.6)	(5.0)
TOTAL	12.0	100

2.3.5 Grade 2

Grade 2 land runs centrally east to west. Soils consist of very slightly stony medium sandy loam topsoils over gleyed permeable sandy clay loam and heavy clay loam upper subsoils, in turn over gleyed slowly permeable clay subsoils.

This land is moderately well to imperfectly drained (Wetness Class II and III) and is limited to Grade 2 by slight wetness restrictions.

2.3.6 Subgrade 3a

The remainder of the agricultural land falls within this subgrade. Soils consist of very slightly stony medium sandy loam and loamy medium sand topsoils over very slightly stony loamy medium sand and sand subsoils. This land is well drained (Wetness Class I) and is limited to Subgrade 3a by moderate soil droughtiness restrictions.

2.3.7 Urban

Urban land consists of two private houses with gardens.

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MAP

2.4 Site 034N

1.2 Location, Land Use and Relief

Site 034N lies ½ km east of Easingwold town centre directly north of site 034W, and is centred around National Grid Reference SE534699. It covers a total area of 0.8 ha all of which consists of agricultural land which has been unused for some time.

Site altitude varies from 35m AOD to 40m AOD, and the land is gently sloping (2-3°).

2.4.2 Climate

Grid Reference	: SE534699
Altitude (m)	: 40
Accumulated Temperature above 0°C (January - June)	: 1345 day °C
Average Annual Rainfall (mm)	: 645
Climatic Grade	: 1
Field Capacity Days	: 152
Moisture Deficit (mm) Wheat	: 100
Moisture Deficit (mm) Potatoes	: 89

2.4.3 Geology, Soils and Drainage

The area is underlain by Mercia Mudstone with a drift cover of blown sand.

The soils are well drained (Wetness Class I), and consist of medium sandy loam topsoils over loamy medium sand subsoils.

The soils on the site correspond to the Newport 1 Association as mapped by the Soil Survey and Land Research Centre.

2.4.4 AGRICULTURAL LAND CLASSIFICATION Site 034N

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	0.8	100
3a		
3b		
4		
5		
(Sub total)	(0.8)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	0.8	100

2.4.5 Grade 2

All of the agricultural land on the site falls in Grade 2. The soils are well drained (Wetness Class I), and consist of stoneless medium sandy loam topsoils over stoneless loamy medium sand subsoils. This land is limited to Grade 2 by slight soil droughtiness restrictions.

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MAP

2.5 Site 034R

2.5.1 Location, Land Use and Relief

Site 034R lies ½ km south east of Easingwold, directly east of the York Road, situated around National Grid Reference SE532691. It covers a total area of 5.0 ha, of which 4.7 ha were under permanent grass at the time of the survey.. The remaining 0.3 ha consists of non agricultural trees and shrubs.

Site altitude varies from 25m AOD to 27m AOD, and the land is level to gently sloping (0-2°).

2.5.2 Climate

Grid Reference	: SE532691
Altitude (m)	: 27
Accumulated Temperature above 0°C (January - June)	: 1366 day °C
Average Annual Rainfall (mm)	: 639
Climatic Grade	: 1
Field Capacity Days	: 150
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 92

2.5.3 Geology, Soils and Drainage

The area is underlain by Mercia Mudstone, with a drift cover of lacustrine sand and gravel. The soils are well drained (Wetness Class I), and consist of very slightly stony medium sandy loam topsoils over very slightly stony loamy medium sand upper subsoils, in turn over slightly stony medium sand subsoils.

The soils on the site correspond to the Newport 1 Association as mapped by the Soil Survey and Land Research Centre.

2.5.4 AGRICULTURAL LAND CLASSIFICATION Site 034R

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	4.7	94.0
3b		
4		
5		
(Sub total)	(4.7)	(94.0)
Urban		
Non Agricultural	0.3	6.0
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.3)	(6.0)
TOTAL	5.0	100

2.5.5 Subgrade 3a

All of the agricultural land on the site falls in Subgrade 3a. The soils are well drained (Wetness Class I), and consist of very slightly stony medium sandy loam topsoils over very slightly stony loamy medium sand upper subsoils, in turn over slightly stony medium sand lower subsoils. This land is limited to Subgrade 3a by moderate soil droughtiness restrictions.

2.5.6 Non Agricultural

A small area to the northern edge of the site consists of fenced off shrubs and trees.

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Leeds Statutory Group

MAP

2.6 Site 034W

2.6.1 Location, Land Use and Relief

Site 034W lies ½ km east of Easingwold town centre, directly south of site 034N and is centred around National Grid Reference SE534697. It covers a total area of 2.7 ha of which 1.8 ha were sown to cereals at the time of the survey. The remaining 0.9 ha consists of a fenced off private area containing pigeon coops and animal shelters.

Site altitude varies between 33m AOD and 35m AOD and the land is level to gently sloping.

2.6.2 Climate

Grid Reference	: SE534697
Altitude (m)	: 33
Accumulated Temperature above 0°C (January - June)	: 1361 day °C
Average Annual Rainfall (mm)	: 642
Climatic Grade	: 1
Field Capacity Days	: 150
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 92

2.6.3 Geology, Soils and Drainage

The area is underlain by Mercia Mudstone, with Head deposits.

The soils are well drained, falling into Wetness Class I, and consist of stoneless medium sandy loam and medium clay loam topsoils, over stoneless loamy medium sand subsoils.

The soils on the site correspond to the Newport 1 Association as mapped by the Soil Survey and Land Research Centre.

2.6.4 AGRICULTURAL LAND CLASSIFICATION Site 034W

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	1.8	66.7
3a		
3b		
4		
5		
(Sub total)	(1.8)	(66.7)
Urban	0.9	33.3
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.9)	(33.3)
TOTAL	2.7	100

2.6.5 Grade 2

All of the agricultural land on the site falls in Grade 2. The soils are well drained (Wetness Class I), and consist of medium sandy loam and medium clay loam topsoils over loamy medium sand subsoils. This land is limited to Grade 2 by slight soil droughtiness restrictions.

2.6.6 Non Agricultural

Non agricultural land consists of areas to the west and south of the site, consisting of fenced off areas containing pigeon coops and animal shelters.

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MAP

2.7 Site 132D

2.7.1 Location, Land Use and Relief

Site 132D lies 2 km south of Easingwold town centre, directly west of the A19(T), and is centred around National Grid reference SE526672. It covers a total area of 10.2 ha of which 8.5 ha were permanent grassland. The remaining 1.7 ha is urban land consisting of a warehouse, private dwelling and hard standing from a derelict sewage farm.

Site altitude is 24m AOD and the land is level.

2.7.2 Climate

Grid Reference	: SE526672
Altitude (m)	: 24
Accumulated Temperature above 0°C (January - June)	: 1371 day °C
Average Annual Rainfall (mm)	: 637
Climatic Grade	: 1
Field Capacity Days	: 147
Moisture Deficit (mm) Wheat	: 103
Moisture Deficit (mm) Potatoes	: 93

2.7.3 Geology, Soils and Drainage

The area is underlain by Mercia Mudstone, with boulder clay around the urban area and lacustrine silt and clay elsewhere.

The soils are poorly drained (Wetness Class IV) and consist of stoneless medium clay loam topsoils over slowly permeable clay subsoils. The soils on the site correspond to the Foggathorpe 2 Association as mapped by the Soil Survey and Land Research Centre.

2.7.4 AGRICULTURAL LAND CLASSIFICATION Site 132D

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	8.5	83.3
4		
5		
(Sub total)	(8.5)	(83.3)
Urban	1.7	16.7
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(1.7)	(16.7)
TOTAL	10.2	100

2.7.5 Subgrade 3b

All of the agricultural land on the site falls in Subgrade 3b. The soils are poorly drained (Wetness Class IV) and consist of stoneless medium clay loam topsoils over gleyed slowly permeable clay subsoils. The slowly permeable layer occurs at or above 25cm. This land is limited to Subgrade 3b by severe soil wetness and workability restrictions.

2.7.6 Urban

Urban land consists of a warehouse, private dwelling and the hard standing from the remains of a derelict sewage works.

RPT File: 2 FCS 10752
Leeds Statutory Group

MAP

2.8 Site 132E

This site was surveyed in 1990/1992, as part of the Easingwold By Pass and Providence Farm surveys. Reports for these surveys contain appropriate site details.

A specific map of the site is enclosed for ease of reference.

MAP

2.9 Site 55E

2.9.1 Location

Site 55E is located on the northern edge of Ainderby Steeple adjacent to the railway embankment and is centred around Grid Reference SE 331923.

The whole site was under cereals at the time of survey.

Slopes are level. Average altitude is 34 m A.O.D.

2.9.2 Climate

Grid Reference	: SE 331923
Altitude (m)	: 34
Accumulated Temperature above 0°C	
(January - June)	: 1353 day °C
Average Annual Rainfall	: 637
Climatic Grade	: 1
Field Capacity Days	: 151
Moisture Deficit (mm) Wheat	: 103
Moisture Deficit (mm) Potatoes	: 93

2.9.3 Geology, Soils and Drainage

Soils are derived from glacial sands and gravels in the west of the site, and from alluvial deposits in the east.

Medium textured topsoils and upper subsoils overlie gleyed, and in places slowly permeable lower subsoils. Soils are well to moderately well drained (Wetness Classes I and II).

2.9.4 AGRICULTURAL LAND CLASSIFICATION Site 55E

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	2.2	100
3a		
3b		
4		
5		
(Sub total)	(2.2)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	2.2	100

2.9.5 Grade 2

All of the land on this site was graded 2.

Medium textured topsoils and upper subsoils overlie gleyed and, in places, slowly permeable lower subsoils, with sandy to clayey textures. Soils are very slightly stony. A slight soil wetness restriction limits the land to grade 2.

File: 2 FCS 10780
Leeds Statutory Group

MAP

2.10 Site EMP3 (4)

2.10.1 Location, Land Use and Relief

The site lies between Leases Road and the A1 to the north of Leeming Bar. Most of this site was surveyed in 1992 (ref 73/92) as part of the Hambleton Local Plan. The present survey of additional land included the scrap yard north of Tutin House (now derelict) and a grass field to the south east of the scrap yard.

Average site altitude is 45m A.O.D. and slopes do not limit the use of agricultural machinery.

2.10.2 Climate

Grid Reference	: SE283904
Altitude (m)	: 45
Accumulated Temperature above 0°C (January - June)	: 1342 day °C
Average Annual Rainfall (mm)	: 669
Climatic Grade	: 1
Field Capacity Days	: 163
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 91

2.10.3 Geology, Soils and Drainage

Soils on the site are developed from sandy textured glacial drift. Topsoils are sandy loam or loamy sand over similar or lighter textured subsoils. Soils are well drained (Wetness Class I).

2.10.4 AGRICULTURAL LAND CLASSIFICATION Site EMP3(4)

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	4.5	76
3a	0.9	15
3b		
4		
5		
(Sub total)	(5.4)	(91)
Urban	0.5	9
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.5)	(9)
TOTAL	5.9	100

2.10.5 Grade 2

Soils are well drained but limited by slight droughtiness. Topsoils are medium sandy loam over similar or loamy medium sand subsoils.

2.10.6 Subgrade 3a

Soils are similar to those Graded 2. However, subsoils are lighter textured and slightly stony making the droughtiness restriction greater.

2.10.7 Urban

This includes the scrap yard and derelict Tutin House.

RPT File: 2 FCS 10761
Leeds Statutory Group

MAP

2.11 Site 60A

2.11.1 Location, Land Use and Relief

The site lies to the north of the village of East Cowton. At the time of survey all of the agricultural land was under grass. Two farm buildings were also present on the site. Slopes do not limit the use of agricultural machinery and average altitude is 40m A.O.D.

2.11.2 Climate

Grid Reference	: SE309033
Altitude (m)	: 40
Accumulated Temperature above 0°C (January - June)	: 1342 day °C
Average Annual Rainfall (mm)	: 632
Climatic Grade	: 1
Field Capacity Days	: 157
Moisture Deficit (mm) Wheat	: 103
Moisture Deficit (mm) Potatoes	: 93

2.11.3 Geology, Soils and Drainage

Soils on the site are mostly developed from boulder clay with some sand and gravel derived soils in the extreme south of the site. However, these sand and gravel derived soils did not comprise a large or consistent enough unit to map off separately.

Boulder clay soils have medium textured topsoils and occasionally upper subsoils over clayey slowly permeable lower subsoils and profiles are soil Wetness Class IV.

2.11.4 AGRICULTURAL LAND CLASSIFICATION Site 60A

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	3.0	99
4		
5		
(Sub total)	(3.0)	(99)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings	0.04	1
Open Water		
Land not surveyed		
(Sub total)	(0.04)	(1)
TOTAL	3.04	100

2.11.5 Subgrade 3b

This land is subject to a soil wetness and workability limitation. Topsoils are medium textured over similar upper subsoils (where present) over gleyed, clayey lower subsoils at about 40cm depth.

2.11.6 Farm Building

Two buildings were mapped off on the site.

RPT File: 2 FCS 10781
Leeds Statutory Group

MAP

2.12 Site 69 AB

This land was previously surveyed in 1992 (ref 105/92) as Site 17 Darlington Road East, Northallerton. A report for this survey contains appropriate site details.

2.13 Site 69AE

2.13.1 Location, Land Use and Relief

Site 69AE is located 2 km south west of Northallerton. Most of the site was surveyed in 1989 (ref. 52/89) as part of an ad hoc survey for a proposed residential development. The current survey looked at additional land to the south not covered by the 1989 exercise.

At the time of survey all the agricultural land was in arable use except for a small grass paddock north west of Newsham Grange.

Slopes are mostly level or gentle. Average altitude is 38 m A.O.D.

2.13.2 Climate

Grid Reference	: SE 359 922
Altitude (m)	: 38
Accumulated Temperature above 0°C (January - June)	: 1348 day °C
Average Annual Rainfall	: 630
Climatic Grade	: 1
Field Capacity Days	: 150
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 93

2.13.3 Geology, Soils and Drainage

Soils are developed from glacial and post glacial drift which is mostly medium to light textured.

Topsoils are generally medium sandy loam over similar textured subsoil. To the north near Lees Lane subsoils are heavier textured and slowly permeable. These soils are Wetness Class III. Elsewhere soils are Wetness Class I.

A small hill north of Newsham Grange contains very light textured stony soils.

2.13.4 AGRICULTURAL LAND CLASSIFICATION Site 69AE

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	8.4	61
3a	3.1	23
3b	1.6	12
4		
5		
(Sub total)	(13.1)	(96)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings	0.6	4
Open Water		
Land not surveyed		
(Sub total)	(0.6)	(4)
TOTAL	13.7	100

2.13.5 Grade 2

This land contains well drained, light textured, slightly stony soils with a slight soil droughtiness limitation.

2.13.6 Subgrade 3a

This subgrade includes land with a slowly permeable subsoil and a soil wetness limitation.

2.13.7 Subgrade 3b

Light textured soils north of Newsham Grange are included in Subgrade 3b. This land has a significant droughtiness limitation.

2.13.8 Farm Buildings

This includes Newsham Grange Farm.

File 2FCS 10786
Leeds Statutory Group

2.14 Site 69S

2.14.1 Location, Land Use and Relief

Site 69S is located approximately 1 km south-west of Romanby, centred around Grid Reference SE 347930.

At the time of survey all the agricultural land on the site was under pasture.

The remainder of the site was an orchard, classed as non-agricultural land.

Slopes are level to gently sloping (0-2%) with a south-westerly aspect. Average altitude is 38 m A.O.D.

2.14.2 Climate

Grid Reference	: SE 357930
Altitude (m)	: 38
Accumulated Temperature above 0°C (January - June)	: 1347 day°C
Average Annual Rainfall (mm)	: 630
Climatic Grade	: 1
Field Capacity Days	: 150
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 91

2.14.3 Geology, Soils and Drainage

This area has a drift geology of glacial sands and gravels.

Medium textured topsoils and upper subsoils overlie clayey, gleyed lower subsoils in the north and south of the site, where soils are moderately well drained (Wetness Class II) and land is graded 2.

Lower subsoils are slowly permeable in the centre of the site, where soils are poorly to imperfectly drained (Wetness Classes IV to III) and land is graded 3a.

2.14.4 AGRICULTURAL LAND CLASSIFICATION Site 69S

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	5.0	51.0
3a	4.7	48.0
3b		
4		
5		
(Sub total)	(9.7)	(99.0)
Urban		
Non Agricultural	0.1	1.0
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.1)	(1.0)
TOTAL	9.8	100

2.14.5 Grade 2

Medium clay loam or medium sandy loam topsoils overlie similar textured upper subsoils.

Subsoils are generally clayey and gleyed, becoming lighter textured in the south of the site. Soils are well to moderately well drained (Wetness Classes I and II). The land is limited to Grade 2 by slight soil wetness.

2.14.6 Subgrade 3a

Medium clay loam topsoils overlie similar textured upper subsoils and clayey, gleyed and slowly permeable lower subsoils. Soils are imperfectly to poorly drained (Wetness Classes III to IV) and the land is restricted to Subgrade 3a by a moderate soil wetness limitation.

2.14.7 Non-agricultural

An orchard in the east of the site is classed as non-agricultural.

File: 2FCS 10782
Leeds Statutory Group

MAP

2.15 Site 69X

2.15.1 Location, Land Use and Relief

The site lies 1km west of Northallerton town centre, immediately west of the railway, and is centred around National Grid Reference SE360938 and covers 9.3 ha. At the time of the survey 7.9 ha were in agricultural use, consisting of cereals and permanent grass. The remaining 1.4 ha consisted of a private house, a marshy hollow to the south and the remains of a railway siding to the east.

The land is level to gently sloping (0-2°) and lies between 36m AOD to 42m AOD.

2.15.2 Climate

Grid Reference	: SE360938
Altitude (m)	: 40
Accumulated Temperature above 0°C (January - June)	: 1345 day °C
Average Annual Rainfall (mm)	: 631
Climatic Grade	: 1
Field Capacity Days	: 150
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 91

2.15.3 Geology, Soils and Drainage

The area is underlain by Keuper Marl, with a drift cover of boulder clay over most of the site and a small area of alluvium to the south.

Soils formed over the boulder clay are moderately well drained (Wetness Class II) and consist of very slightly stony medium and sandy clay loam topsoils over sometimes gleyed, permeable sandy clay loam and medium clay loam upper subsoils in turn over slowly permeable clay lower subsoils at depth. Soils formed over the alluvium consist of medium clay loam topsoils over slowly permeable clay subsoils. (Wetness Class IV).

2.15.4 AGRICULTURAL LAND CLASSIFICATION Site 69X

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	7.2	77.4
3a		
3b	0.7	7.5
4		
5		
(Sub total)	(7.9)	(84.9)
Urban	0.1	1.1
Non Agricultural	1.3	14.0
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(1.4)	(15.1)
TOTAL	9.3	100

2.15.5 Grade 2

The majority of the site is covered by Grade 2 land. Soils consist of very slightly stony medium clay loam and sandy clay loam topsoils, over sometimes gleyed very slightly stony medium clay loam upper subsoils in turn over gleyed slowed permeable clay lower subsoils. The slowly permeable layer occurs between 60cm and 70cm depth. This land is limited to Grade 2 by slight soil wetness restrictions.

2.15.6 Subgrade 3b

The remainder of the agricultural land falls into this subgrade. Soils consist of stoneless medium clay loam topsoils over gleyed slowly permeable clay subsoils. The slowly permeable layer occurs at 25cm and this land is limited to Subgrade 3b by severe soil wetness and workability restrictions.

2.15.7 Non Agricultural

Two areas of non-agricultural land occur, the bigger area to the south comprises a marshy hollow, and to the east is the site of a disused railway siding.

2.15.8 Urban

Urban land occurs in the north of the site and comprises a private dwelling and disused buildings.

RPT File: 2 FCS 10783
Leeds Statutory Group

MAP

2.16 Site 69Y

This land was previously surveyed in 1992 (ref 106/92) as Site 12 Thirsk Road, Northallerton. A report for this survey contains appropriate site details.

An ALC map of the site is enclosed for ease of reference.

MAP

2.17 Site 131H

2.17.1 Location, Land Use and Relief

The site is located approximately 1½ km north west of Northallerton, centred around Grid Reference SE 354944. At the time of survey all the land was under cereals. The land is gently sloping with a southerly aspect.

2.17.2 Climate

Grid Reference	: SE 354944
Altitude (m)	: 40
Accumulated Temperature above 0°C (January - June)	: 1345 day°C
Average Annual Rainfall (mm)	: 633
Climatic Grade	: 1
Field Capacity Days	: 149
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 91

2.17.3 Geology, Soils and Drainage

Soils are derived from boulder clay deposits.

Medium clay loam topsoils overlie similar textured upper subsoils and clayey, slowly permeable lower subsoils. Soils fall in Wetness Classes III and IV.

2.17.4 AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	6.9	100
3b		
4		
5		
(Sub total)	(6.9)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	6.9	100

2.17.4 Grade 3a

All of the land on the site falls in Subgrade 3a. Medium clay loam topsoils are very slightly stony and overlie medium clay loam, sometimes gleyed upper subsoils. Lower subsoils are heavy clay loam, heavy silty clay loam or clay, and are slowly permeable. This land is imperfectly to poorly drained (Wetness Classes III and IV), and is restricted to Subgrade 3a by soil wetness limitations.

RPT File: 2FCS 10789
Leeds Statutory Group

MAP

2.18 Site 131I

2.18.1 Location, Land Use and Relief

This site lies ½ km to the east of Yafforth and 2 km west of Northallerton around grid reference SE349946. It covers a total area of 8.8 ha, of which all the agricultural land, 8.1 ha was under grass at the time of survey. The remaining 0.7 ha is occupied by a pond and a car park. Much of the area has been restored, and was previously a landfill site.

Altitude varies from 40 m A.O.D. in the centre-west of the site to 30 m A.O.D. in the east. The land is gently to moderately sloping (2-5°) with variable aspect.

2.18.2 Climate

Grid Reference	: SE349946
Altitude (m)	: 35
Accumulated Temperature above 0°C (January - June)	: 1350 day °C
Average Annual Rainfall (mm)	: 631
Climatic Grade	: 1
Field Capacity Days	: 149
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 92

2.18.3 Geology, Soils and Drainage

The site is underlain by Keuper Sandstone with drift deposits of alluvium and sands and gravels.

Profiles on the undisturbed land are well drained (Wetness Class I), but are poorly drained (Wetness Class IV) on the restored land. Topsoils are very slightly stony (1-5%) and consist of medium sand loam overlying similar textured or sandy clay loam subsoils. Subsoils are very stony in places. Topsoils on the restored land are medium clay loam typically overlying heavy clay loam subsoils.

2.18.4 AGRICULTURAL LAND CLASSIFICATION Site 131I

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	2.9	33
3b	5.2	59.1
4		
5		
(Sub total)	(8.1)	(92.1)
Urban	0.1	1.1
Non Agricultural	0.6	6.8
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(0.7)	(7.9)
TOTAL	8.8	100

2.18.5 Subgrade 3a

2.9 ha in the west of the site falls into Subgrade 3a. Very slightly stony medium sandy loam topsoils overlie similar textured, or sandy clay loam subsoils, which are very stony in places. Profiles are well drained (Wetness Class I). The land is restricted to Subgrade 3a by soil droughtiness.

2.18.6 Subgrade 3b

The majority of the remaining agricultural land, 5.2 ha, has been restored from a former landfill site, and the land in the far east of the site has received subsoil to raise it's level.

These areas of disturbed land are poorly drained (Wetness Class (IV) and have medium clay loam topsoils overlying heavy clay loam or sandy clay loam subsoils, which are slowly permeable at approximately 30cm depth. Topsoils are very slightly stony (2-4% stones greater than 2cm). The land is limited to subgrade 3b by soil wetness and workability restrictions.

2.18.7 Urban

0.1 ha in the south of the site is occupied by a car park.

2.18.8 Non-Agricultural

0.6 ha in the north of the site is occupied by a pond and non-agricultural land.

MAP

2.19 Site 131K

2.19.1 Location, Land Use and Relief

Site 131K is located 1 km south-west of Yafforth, centred around Grid Reference SE335938.

At the time of survey most of the land was used for pig farming, with some land under cereals. A pumping station in the centre-south of the site, and the farm house were classed as Urban. An area in the north was under woodland, and areas of non- agricultural land were occupied by farm tracks and an equestrian training area.

2.19.2 Climate

Grid Reference	: SE335938
Altitude (m)	: 40
Accumulated Temperature above 0°C (January - June)	: 1345 day°C
Average Annual Rainfall (mm)	: 639
Climatic Grade	: 1
Field Capacity Days	: 151
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 91

2.19.3 AGRICULTURAL LAND CLASSIFICATION Site 131K

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	35.8	84.0
3a	2.9	6.8
3b		
4		
5		
(Sub total)	(38.7)	(90.8)
Urban	1.7	4.0
Non Agricultural	1.3	3.1
Woodland	0.9	2.1
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(3.9)	(9.2)
TOTAL	42.6	100

2.19.4 Geology, Soils and Drainage

Soils are derived from glacial sands and gravels.

Medium sandy loam topsoils overlie similar textured upper subsoils. Lower subsoils vary in texture between loamy sand and clay. Most of the land is graded 2 with a slight droughtiness restriction. A small area is graded 3a with a moderate droughtiness restriction. Soils are generally well drained (Wetness Class I).

2.19.5 Grade 2

Topsoils are medium sandy loam. Upper subsoils are similar textured, with clay loams and loamy sands in some areas. Lower subsoil textures range from loamy sand to clay. Topsoils are very slightly stony.

The land is limited to grade 2 by slight soil droughtiness.

2.19.6 Subgrade 3a

Medium sandy loam topsoils overlie similar upper and lower subsoils. Moderate soil droughtiness limits this land to Subgrade 3a.

2.19.7 Urban

The farmhouse, and a pumping station are classed as Urban.

2.19.8 Non-Agricultural

An equestrian training area and farm tracks are classed as Non-Agricultural.

2.19.9 Woodland

An area in the north west of the site is under woodland.

RPT File: 2FCS 107991
Leeds Statutory Centre

MAP

2.20. Site 78B

2.20.1 Location, Land Use and Relief

The site is located to the south of Great Ayton. At the time of survey the centre of the site was in non-agricultural use, mostly playing fields. Farm land in the north was under grass and in the south in arable use.

Land is mostly level at an altitude of 90 m A.O.D.

2.20.2 Climate

Grid Reference	: NZ561105
Altitude (m)	: 90
Accumulated Temperature above 0°C (January - June)	: 1276 day °C
Average Annual Rainfall (mm)	: 701
Climatic Grade	: 2
Field Capacity Days	: 182
Moisture Deficit (mm) Wheat	: 86
Moisture Deficit (mm) Potatoes	: 71

2.20.3 Geology, Soils and Drainage

Soils on the site are mostly developed from boulder clay drift. A small area in the north of the site contains light textured alluvium derived soils.

Boulder clay derived soils have medium textured topsoils over clayey slowly permeable subsoils. Profiles are Soil Wetness Class IV. The alluvium soils are medium textured and Wetness Class I.

2.20.4 AGRICULTURAL LAND CLASSIFICATION Site 78B

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	0.7	4
3a		
3b	7.9	44
4		
5		
(Sub total)	(8.6)	(48)
Urban	0.2	1
Non Agricultural	9.3	51
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(9.5)	(52)
TOTAL	18.1	100

2.20.5 Grade 2

Well drained alluvial soils in a small area in the north of the site are Grade 2. Flood risk and overall climate limit the ALC grade.

2.20.6 Subgrade 3b

This Subgrade comprises poorly drained boulder clay derived soils with a severe soil wetness and workability limitation.

2.20.7 Urban

This includes a residential area.

2.20.8 Non-Agricultural

Playing fields are classified as non agricultural.

RPT File: 2 FCS 10792
Leeds Statutory Group

MAP

2.21 Site 79, A, B & C

2.21.1 Location, Land Use and Relief

The 3 sites comprise one field and are all adjacent. They are described together below.

The sites lie to the south of Great Broughton around Grid Reference NZ 551058.

At the time of survey all the land was in grass.

Slopes are mostly gentle and do not limit ALC grade. However, land toward the Broughton Beck exceeds 7° in places and will limit the use of agricultural machinery.

Average altitude is 98m A.O.D

2.21.2 Climate

Grid Reference	: NZ551058
Altitude (m)	: 98
Accumulated Temperature above 0°C (January - June)	: 1269 day °C
Average Annual Rainfall (mm)	: 778
Climatic Grade	: 2
Field Capacity Days	: 202
Moisture Deficit (mm) Wheat	: 83
Moisture Deficit (mm) Potatoes	: 68

2.21.3 Geology, Soils and Drainage

Soils on the site are developed from thick deposits of boulder clay drift. Topsoils are generally medium clay loam over clayey, gleyed, slowly permeable subsoils. These soils are Wetness Class IV and poorly drained.

2.21.4 AGRICULTURAL LAND CLASSIFICATION Sites 79A,B &C combined

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	2.9	100
4		
5		
(Sub total)	(2.9)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	2.9	100

2.21.5 Subgrade 3b

The whole ite is Subgrade 3b. Soil wetness and workability problems limit the ALC grade of this land. Land in the west of the site also has a slope limitation.

RPT File: 2 FCS 10793
10794
10810
Leeds Statutory Group

MAP

2.22 Site 79F

2.22.1 Location, Land Use and Relief

This site lies between the villages of Great Broughton and Kirby, around Grid Reference NZ541061. At the time of survey all the land was under grass.

Slopes do not limit ALC grade and average altitude is 90m A.O.D.

2.22.2 Climate

Grid Reference	: NZ541061
Altitude (m)	: 90
Accumulated Temperature above 0°C (January - June)	: 1278 day °C
Average Annual Rainfall (mm)	: 761
Climatic Grade	: 2
Field Capacity Days	: 197
Moisture Deficit (mm) Wheat	: 85
Moisture Deficit (mm) Potatoes	: 70

2.22.3 Geology, Soils and Drainage

Soils on the site are all developed from boulder clay drift deposits. Topsoils are medium clay loam over clayey, gleyed slowly permeable subsoils.

Profiles are poorly drained and Soil Wetness Class IV.

2.22.4. AGRICULTURAL LAND CLASSIFICATION Site 79F

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	1.7	100
4		
5		
(Sub total)	(1.7)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	1.7	100

2.22.5 Subgrade 3b

The whole site is Subgrade 3b. Soil wetness and workability problems limit the ALC grade of this land.

MAP

2.23 Site 79H

2.23.1 Location, Land Use and Relief

This site lies between the villages of Great Broughton and Kirby, around Grid Reference NZ542059. At the time of survey it was in a mixture of arable and grass uses.

Slopes do not limit ALC grade and average altitude is 92m A.O.D

2.23.2 Climate

Grid Reference	: NZ542059
Altitude (m)	: 92
Accumulated Temperature above 0°C (January - June)	: 1279 day °C
Average Annual Rainfall (mm)	: 767
Climatic Grade	: 2
Field Capacity Days	: 199
Moisture Deficit (mm) Wheat	: 84
Moisture Deficit (mm) Potatoes	: 69

2.23.3 Geology, Soils and Drainage

Soils on the site are boulder clay derived and have medium clay loam topsoils over clayey, slowly permeable subsoils. Profiles are poorly drained (soil Wetness Class IV).

2.23.4 AGRICULTURAL LAND CLASSIFICATION Site 79H

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	8.9	99
4		
5		
(Sub total)	(8.9)	(99)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings	0.1	1
Open Water		
Land not surveyed		
(Sub total)	(0.1)	(1)
TOTAL	9.0	100

2.23.5 Subgrade 3b

All the agricultural land on the site is Subgrade 3b. Soils are poorly drained and subject to a significant soil wetness and workability limitation.

2.23.6 Farm Buildings

These are located in the west of the site.

RPT File: 2 FCS 10796
Leeds Statutory Group

MAP

2.24 Site 81A

2.24.1 Location, Land Use and Relief

Site 81A is located approximately 6 km south-west of Stokesley and is centred around Grid Reference NZ 469060.

At the time of survey most of the agricultural land was under cereals, with a small area of pasture.

Part of the site is taken up with a recreation area, a driveway, and agricultural buildings. The land is level.

2.24.2 Climate

Grid Reference	: NZ 469060
Altitude (m)	: 70
Accumulated Temperature above 0°C (January - June)	: 1302 day °C
Average Annual Rainfall (mm)	: 666
Climatic Grade	: 2
Field Capacity Days	: 169
Moisture Deficit (mm) Wheat	: 93
Moisture Deficit (mm) Potatoes	: 80

2.24.3 Geology, Soils and Drainage

Soils are derived from boulder clay deposits.

Topsoils are medium clay loam over sandy, heavy, or medium clay loam upper subsoils and generally clayey lower subsoils.

Soils fall into Wetness Classes III and IV over most of the site, with slowly permeable subsoils.

2.24.4 AGRICULTURAL LAND CLASSIFICATION Site 81A

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	2.1	48.8
3b	1.5	34.9
4		
5		
(Sub total)	(3.6)	(83.7)
Urban		
Non Agricultural	0.5	11.6
Woodland		
Agricultural Buildings	0.2	4.7
Open Water		
Land not surveyed		
(Sub total)	(0.7)	(16.3)
TOTAL	4.3	100

2.24.5 Subgrade 3a

This land has slowly permeable subsoil which limits it to this subgrade due to the soil wetness limitation.

2.24.6 Subgrade 3b

Slowly permeable subsoils occur at shallower depth on this land, which has a more severe soil Wetness limitation. Medium textured topsoils overlie heavy textured subsoils.

2.24.6 Non-Agricultural

This includes part of a private field used for a model railway, a driveway, and a recreational area..

2.24.7 Agricultural Buildings

Several barns occupy this area..

MAP

2.25 Site 90D

2.25.1 Location, Land Use and Relief

Site 90D lies to the north of Stokesley around Grid Reference NZ521088.

At the time of survey all the land was under grass.

The land is level at an altitude of 68m A.O.D.

2.25.2 Climate

Grid Reference	: NZ521088
Altitude (m)	: 68
Accumulated Temperature above 0°C (January - June)	: 1303 day °C
Average Annual Rainfall (mm)	: 676
Climatic Grade	: 2
Field Capacity Days	: 176
Moisture Deficit (mm) Wheat	: 92
Moisture Deficit (mm) Potatoes	: 79

2.25.3 Geology, Soils and Drainage

Soils on the site are developed from boulder clay drift. Topsoils are medium clay loam or sandy clay loam over clayey, gleyed slowly permeable subsoils. Profiles are poorly drained and Soil Wetness Class IV.

2.25.4 AGRICULTURAL LAND CLASSIFICATION Site 90D

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a		
3b	4.5	100
4		
5		
(Sub total)	(4.5)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	4.5	100

2.25.5 Subgrade 3b

All the site was Subgrade 3b. Soil wetness and workability limit the ALC grade of this land.

RPT File: 2 FCS 10798
Leeds Statutory Group

MAP

2.26 Site 90K

2.26.1 Location, Land Use and Relief

Site 90K is located to the south of Stokesley around Grid Reference NZ525083.

At the time of survey all the agricultural land was in grass pasture.

The land is level at an altitude of 65m A.O.D.

2.26.2 Climate

Grid Reference	: NZ525083
Altitude (m)	: 65
Accumulated Temperature above 0°C (January - June)	: 1306 day °C
Average Annual Rainfall (mm)	: 685
Climatic Grade	: 2
Field Capacity Days	: 179
Moisture Deficit (mm) Wheat	: 91
Moisture Deficit (mm) Potatoes	: 78

2.26.3 Geology, Soils and Drainage

Soils on the site are developed from boulder clay drift deposits. Topsoils are typically medium clay loam occasionally in the west of the site over similar textured upper subsoils, but usually subsoils are gleyed, clayey and slowly permeable. Profiles are either Soil Wetness Class III or IV.

2.26.4 AGRICULTURAL LAND CLASSIFICATION

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	1.8	16
3b	7.0	63
4		
5		
(Sub total)	(8.8)	(79)
Urban		
Non Agricultural	2.4	21
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(2.4)	(21)
TOTAL	11.2	100

2.26.5 Subgrade 3a

Subgrade 3a land occurs in the west of the site. Profiles typically contain medium textured topsoils and are Soil Wetness Class III. Soil wetness and workability limit the ALC grade of this land.

2.26.6 Subgrade 3b

All remaining land is Subgrade 3b. Profiles have medium textured topsoils but are typically gleyed and slowly permeable within 40cm depth. Significant soil wetness problems limit the ALC grade of this land.

2.26.7 Non-Agricultural

This includes allotment gardens, residential gardens and a scrub area.

RPT File: 2 FCS 10799
Leeds Statutory Group

MAP

2.27 Sites 90T, 90Z and 90AA

This land was previously surveyed in 1988 (ref 50/88) as Thirsk Road, Stokesley. A report for this survey contains appropriate site details.

An ALC map of the site is enclosed for ease of reference.

MAP

2.28 Site 102D

2.28.1 Location, Land Use and Relief

Site 102D lies 1km south west of Dalton, and is centred around National Grid Reference SE428758. It covers a total area of 22.3 ha the majority of which were in arable production at the time of the survey. The remaining land, 1.8 ha, consists of disused access roads.

Site altitude varies from 22m A.O.D. to 23m A.O.D. and the site is level (0-1°).

2.28.2 Climate

Grid Reference	: SE428758
Altitude (m)	: 22
Accumulated Temperature above 0°C (January - June)	: 1372 day °C
Average Annual Rainfall (mm)	: 628
Climatic Grade	: 1
Field Capacity Days	: 144
Moisture Deficit (mm) Wheat	: 106
Moisture Deficit (mm) Potatoes	: 97

2.28.3 Geology, Soils and Drainage

The area is underlain by the Mercia Mudstone Group with a drift cover of sand and gravel to the south and warp and lacustrine clay to the north.

Soils formed over the sand and gravel are well drained, falling into Wetness Class I, and consist of loamy medium sand topsoils over loamy medium sand and medium sand subsoils. Soils formed over the warp lacustrine clay are imperfectly and poorly drained, (Wetness Class II and IV), consisting of medium clay loam topsoils over heavy clay loam upper subsoils and clay lower subsoils.

2.28.4 AGRICULTURAL LAND CLASSIFICATION Site 102D

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	14.3	64.1
3b	6.2	27.8
4		
5		
(Sub total)	(20.5)	(91.9)
Urban	1.8	8.1
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)	(1.8)	(8.1)
TOTAL	22.3	100

2.28.5 Subgrade 3a

Subgrade 3a land covers the north of the site and most of the south.

Soils to the north consist of very slightly stony medium clay loam topsoils over gleyed permeable heavy clay loam upper subsoils, in turn over gleyed slowly permeable clay lower subsoils. The slowly permeable layer begins between 45cm and 55cm depth. This land is imperfectly drained (Wetness Class III) and is limited to Subgrade 3a by moderate soil wetness restrictions.

The remaining subgrade 3a land consists of very slightly stony, well drained (Wetness Class I) loamy medium sand topsoils over similar subsoils, with medium sand found occasionally at depth. This land is limited to subgrade 3a by moderate soil droughtiness restrictions.

2.28.6 Subgrade 3b

The remaining agricultural land is within Subgrade 3b. The soils consist of very slightly stony medium clay loam topsoils over gleyed slowly permeable clay subsoils. Slowly permeable layers occur within 30cm and the soils are poorly drained, falling into Wetness Class IV.

2.28.7 Urban

Urban land consists of the remains of concrete access roads to the old airfield.

RPT File: 2 FCS 10803
Leeds Statutory Group

MAP

2.29 Site 123I

2.29.1 Location, Land Use and Relief

The site lies approximately ½ km north of Thirsk town centre between the A61 and the B1448, and is centred around Grid Reference SE429826. It covers a total area of 1.6 ha, with all the agricultural land under permanent grass at the time of survey. The remaining 0.1 ha consists of agricultural buildings and yards.

Altitude varies from 35m A.O.D. in the east to 34m A.O.D in the west. The land is level to gently sloping with a westerly aspect.

2.29.2 Climate

Grid Reference	: SE429826
Altitude (m)	: 34
Accumulated Temperature above 0°C (January - June)	: 1355 day °C
Average Annual Rainfall (mm)	: 647
Climatic Grade	: 1
Field Capacity Days	: 157
Moisture Deficit (mm) Wheat	: 101
Moisture Deficit (mm) Potatoes	: 91

2.29.3 Geology, Soils and Drainage

The area is underlain by Triassic mudstones with drift deposits of alluvium and glacial sands and gravels.

Profiles are well drained, falling in Wetness Class I, and consist of medium sandy loam topsoils over similar textured subsoils, with in places, sandy clay loam lower subsoils. Topsoils and subsoils are very slightly stony, with 1-4% stones greater than 2cm.

The soils on the site correspond to the Newport 1 Association as mapped by the Soil Survey and Land Research Centre.

2.29.4 AGRICULTURAL LAND CLASSIFICATION Site 123I

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2	1.5	93.7
3a		
3b		
4		
5		
(Sub total)	(1.5)	(93.7)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings	0.1	6.3
Open Water		
Land not surveyed		
(Sub total)	(0.1)	(6.3)
TOTAL	1.6	100

2.29.5 Location, Land Use and Relief

All of the agricultural land on the site falls in Grade 2. Profiles are well drained (Wetness Class 1) and consist of medium sandy loam topsoils and subsoils, with sandy clay loam subsoils in places. Topsoils and subsoils are very slightly stony (1-4% stones greater than 2cm).

The land is limited to Grade 2 by slight soil droughtiness.

2.29.6 Agricultural Buildings

0.1 ha of land is occupied by farm buildings and yards.

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MAP

2.30 Site 123Q

2.30.1 Location, Land Use and Relief

Site 123Q is located approximately 1 km south-east of Thirsk, centred around Grid Reference SE 432808.

At the time of survey the land was not being cropped, and was possibly in set aside.

Slopes are level (0 - 1°), and the average altitude of the site is 32 m A.O.D.

2.30.2 Climate

Grid Reference	: SE 432808
Altitude (m)	: 32
Accumulated Temperature above 0°C	
(January - June)	: 1358 day°
Average Annual Rainfall	: 648
Climatic Grade	: 1
Field Capacity Days	: 155
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 92

2.30.3 Geology, Soils and Drainage

Soils are derived from glacial lacustrine deposits of sands and gravels.

Topsoils are medium sandy loam overlying similar textured subsoils.

Soils are well drained and fall into Wetness Class I.

2.30.4 AGRICULTURAL LAND CLASSIFICATION Site 123Q

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1	1.7	100
2		
3a		
3b		
4		
5		
(Sub total)	(1.7)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	1.7	100

2.30.5 Grade 1

The whole of this site falls into Grade 1.

Medium sandy loam topsoils overlie similar subsoils.

Soils are well drained and have no droughtiness limitations.

MAP

2.31 Site 127C

2.31.1 Location, Land Use and Relief

This site was not surveyed due to access not being obtained in time to meet the deadline.

2.32 Site 016A

2.32.1 Location, Land Use and Relief

Site 016A lies ½ km west of Leeming Bar, directly east of the A1(T), and is situated around National Grid Reference SE282898. It covers a total area of 8.6 ha all of which were under cereals at the time of the survey.

Site altitude varies from 40 m AOD in the south to 50 m AOD in the north.

2.32.2 Climate

Grid Reference	: SE282898
Altitude (m)	: 45
Accumulated Temperature above 0°C (January - June)	: 1342 day °C
Average Annual Rainfall (mm)	: 669
Climatic Grade	: 1
Field Capacity Days	: 163
Moisture Deficit (mm) Wheat	: 102
Moisture Deficit (mm) Potatoes	: 91

2.32.3 Geology, Soils and Drainage

The area consists of Upper Glacial Beds, with a drift cover of Fluvoglacial sand.

Soils are well drained, falling into Wetness Class I, and consists of very slightly stony medium sandy loam or loamy medium sand topsoils over loamy medium sand and occasionally sand subsoils.

2.32.4 AGRICULTURAL LAND CLASSIFICATION Site 016A

The ALC grades occurring on this site are as follows:

Grade/Subgrade	Hectares	Percentage of Total Area
1		
2		
3a	8.6	100
3b		
4		
5		
(Sub total)	(8.6)	(100)
Urban		
Non Agricultural		
Woodland - Farm		
- Commercial		
Agricultural Buildings		
Open Water		
Land not surveyed		
(Sub total)		
TOTAL	8.6	100

2.32.5 Subgrade 3a

All of the agricultural land on this site falls within this subgrade. The soils are well drained (Wetness Class I), and consist of very slightly stony loamy medium sand or medium sandy loam topsoils, over loamy medium sand, with occasional medium sand subsoils. The land is limited to Subgrade 3a by moderate soil droughtiness restrictions.

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MAP

2.33 Site 016C

This land was previously surveyed in 1991 (ref 86/91) as Elm Tree Farm for the Bedale Local Plan. A report for this survey contains appropriate site details.

An ALC map of the site is enclosed for ease of reference.

MAP