

**Ashfield Land Management Ltd and
Gazeley GLP Northampton s.à.r.l.**

**Rail Central,
Milton Malsor,
Northamptonshire**

**Summary of Agricultural Land Classification
and
Soil Resources**
November 2017



Reading Agricultural Consultants Ltd
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1. Introduction

- 1.1.1. Reading Agricultural Consultants Ltd (RAC) is instructed by Ashfield Land Management Ltd and Gazeley GLP Northampton s.à.r.l. to assess the Agricultural Land Classification (ALC) and soil resources of the proposed Rail Central site at Milton Malsor, Northamptonshire. The main site and land at Junction 15a include 274ha of agricultural land, most of which is in arable use.
- 1.1.2. The Rail Central ES Scoping Report, issued in December 2015, identified that previous ALC surveys had been undertaken by ADAS on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF), that RAC had carried out a reconnaissance ALC survey across most of the site, and that consultation will be required with Natural England to determine whether the existing ALC data provides a sufficiently robust description of the baseline conditions or whether additional ALC surveys would be required.
- 1.1.3. The Scoping Opinion issued in January 2016 included Natural England's view that a detailed soil and ALC survey will be required, with the density of sampling to be one observation per hectare across the site.
- 1.1.4. The Secretary of State noted at paragraph 3.36 of the Scoping Opinion that:

"The existing baseline should be informed by a comprehensive and up-to-date data set and therefore welcomes the proposal to undertake new surveys as well as discussing the suitability of existing surveys with Natural England."
- 1.1.5. This report sets out a summary of the data used to provide the baseline conditions on agricultural land quality and soils reported in the ES. It is anticipated that the dataset can be agreed with Natural England to be a suitable and accurate representation of the ALC and soil conditions across the site.

2. ALC and Soil Survey Data

2.1. ADAS ALC (Annex 1)

- 2.1.1. Just under 66ha of agricultural land in the west of the site was surveyed by ADAS on behalf of MAFF in January 1997¹. The survey was undertaken at a detailed level, including a total of 59 borings and three soil pits.
- 2.1.2. This survey classified the west of the Rail Central site as mostly (37.2ha) Subgrade 3b, with a large proportion of Subgrade 3a (15.2ha) and a small area of Grade 2 (3.4ha).
- 2.1.3. The soil logs are not available, however the report does contain descriptions of each soil type and land grade identified.

¹ **MAFF (1997)** *Public Transport Interchange, Blisworth, Northamptonshire. Agricultural Land Classification, Reference EL 29/02325*

2.2. RAC Reconnaissance Survey (Annex 2)

- 2.2.1. A reconnaissance ALC survey was undertaken across 194ha of agricultural land at the main site in October 1999. A total of 57 soil cores were observed with an auger and three representative inspection pits were dug.
- 2.2.2. The survey classified most of the agricultural land (142ha or 73%) as Subgrade 3b, with 33ha (17%) of Subgrade 3a and 19ha (10%) of Grade 2 also present. The report acknowledges the limitations of the scale of survey, though due to broad patterns of soil type suggests that local changes arising from a detailed survey would not likely be substantial.

2.3. RAC Detailed Survey

- 2.3.1. Surveyors from RAC returned to the site in February 2017 to commence a detailed ALC and soil resources survey. A total of 171 soil profiles were observed across the site with augers and three inspection pits were dug. A number of topsoil samples were also sent to a laboratory for the determination of physical and chemical properties.
- 2.3.2. The detailed survey identified three main soil types across the site. As predicted in the reconnaissance report of 1999, the proportions of each grade classification do not differ substantially. Overall, 200ha (75%) of the site is classified as Subgrade 3b, 36ha (14%) as Subgrade 3a and 28ha (11%) as Grade 2. The detailed survey did however identify a small area of excellent quality agricultural land of Grade 1 in the north of the site, amounting to 2ha or <1% of the area.
- 2.3.3. The soil profile summaries derived from the detailed survey are included in Annex 3.
- 2.3.4. The locations of all observations from the three surveys at the site are shown in Figure 1.

2.4. Soil Types

- 2.4.1. Three main soil types are present at the site. The most extensive type comprises heavy clay loam or clay topsoils over clay subsoils. The subsoil is gleyed and slowly permeable and the profiles are of Wetness Class (WC) III or IV, depending on the depth to the slowly permeable layer. This soil type was identified in all three of the surveys undertaken and is limited by wetness and workability to Subgrade 3b.
- 2.4.2. A minor variant of this type occurs in which the topsoil is of medium clay loam. Where profiles are of WC III, the limitation is less severe to Subgrade 3a.
- 2.4.3. The second soil type is similar in characteristic to the first, though becomes slowly permeable at depth or is otherwise permeable throughout. The 2017 survey found profiles to be of WC II or occasionally WC I and limited by workability according to the topsoil textures. Profiles of WC II with medium or heavy loamy topsoils are limited to Grade 2 or Subgrade 3a respectively. Where the topsoil texture is of clay,

the limitation is to Subgrade 3b. These respective grades improve by one where the profiles are of WC I, resulting in rare instances of Grade 1 quality land.

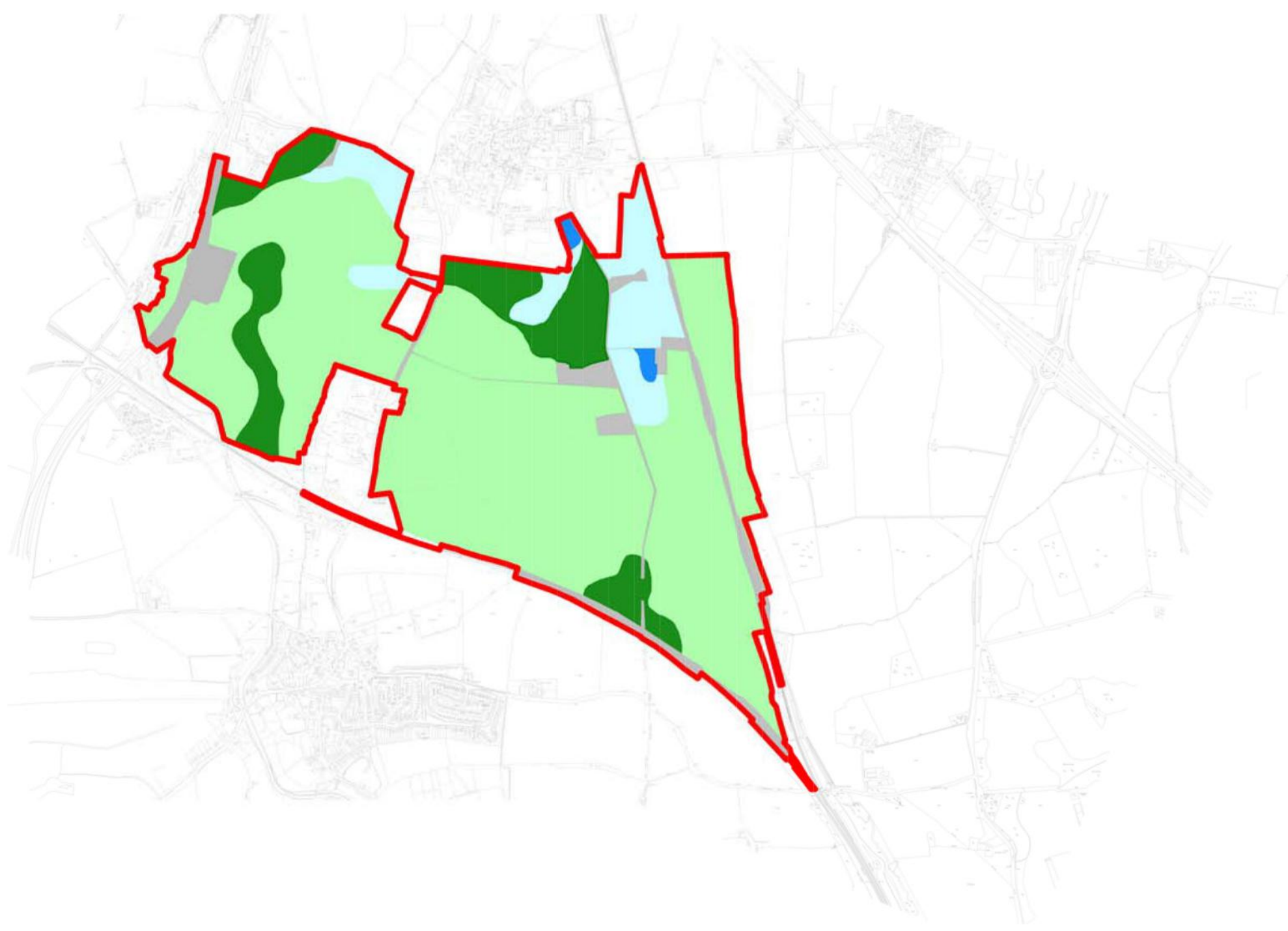
- 2.4.4. The reconnaissance survey of 1999 identified this soil type and classified it mostly as Subgrade 3a. The ADAS survey of 1997 classifies this soil type as mostly Subgrade 3a with some Grade 2.
- 2.4.5. The third soil type is distinct from the first two and comprises coarse loamy textures of sandy loam and sandy clay loam, occasionally with sand at depth. This soil type was identified in the 1999 and 2017 surveys and is classified as Grade 2 or Subgrade 3a, with soil droughtiness representing the main limitation to agricultural land quality.
- 2.4.6. The areas of each ALC grade present at the main site are given in Table 1 and are shown in Figure 2.

Table 1: ALC Areas

Grade	Description	Area (ha)	Area (% of agric. land)
1	Excellent quality	2	<1
2	Very good quality	28	11
3a	Good quality	36	14
3b	Moderate quality	200	75
	Total Agricultural	266	100

3. Summary

- 3.1.1. Cumulatively, a total of 294 observations and nine soil pits have been examined across 266ha of agricultural land at the proposed Rail Central main site. The assessment has therefore been made in accordance with Natural England's Scoping Opinion requiring one observation per hectare.
- 3.1.2. Three main soil types are present. The major soil type comprises poorly drained, clayey profiles of WC III or IV. A second soil type has similar characteristics but is better draining, of WC I or II. Profiles are affected by wetness and workability to varying extents, ranging from Grade 1 to Subgrade 3b.
- 3.1.3. The third, minor, contrasting soil type includes sandy loam and sandy clay loam textures, occasionally over sand. These profiles are of WC I and limited by droughtiness to Grade 2 or Subgrade 3a.









- | | | | |
|-------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------------------------|
|  | Grade 1 - excellent quality |  | Subgrade 3b - moderate quality |
|  | Grade 2 - very good quality |  | Grade 4 - poor quality |
|  | Subgrade 3a - good quality |  | Grade 5 - very poor quality |
|  | Not Present | | |
- } Best and most versatile land

Figure 2: Agricultural Land Classification
 Site: Rail Central, Milton Malsor
 Client: Ashfield Land Management Ltd and Gazeley GLP Northampton s.a.r.l.
 Scale 1:20,000@A4 Oct/2017

Annex 1: MAFF ALC survey

**PUBLIC TRANSPORT INTERCHANGE
BLISWORTH, NORTHAMPTONSHIRE
Agricultural Land Classification
JANUARY 1997**

**Resource Planning Team
Huntingdon Statutory Group
ADAS Cambridge**

**ADAS Reference: 105/96
MAFF Reference: EL 29/02325
LUPU Commission: C02663**

AGRICULTURAL LAND CLASSIFICATION REPORT

PUBLIC TRANSPORT INTERCHANGE BLISWORTH, NORTHAMPTONSHIRE

Introduction

1. This report presents the findings of a detailed, Agricultural Land Classification (ALC) survey of 65.8 ha of land at Blisworth, Northamptonshire. The survey was carried out during January 1997.
2. The survey was commissioned by the Ministry of Agriculture, Fisheries and Food (MAFF) Land Use Planning Unit, Cambridge in connection with an outline planning application for a public transport interchange. This survey supersedes a previous ALC survey on part of this land (ADAS Job No. 3/93).
3. The work was conducted by members of the Resource Planning Team in the Huntingdon Statutory Group in ADAS. The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF, 1988). A description of the ALC grades and subgrades is given in Appendix I.
4. At the time of survey the land use on the site was mainly ploughed land (after maize) with some permanent pasture grassland. A small area in the north of the site appeared to be restored land. Other land includes, some farm buildings, a section of the A43 dual carriageway, a filling station and associated land, a small section of dismantled railway embankment, and in the east a section fenced off for caravan storage. The remainder is associated with the mainline railway and the Grand Union Canal. The area between the railway and the canal is swampy scrubland.

Summary

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:10 000 and is accurate at this scale but any enlargement would be misleading.
6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

Table 1: Areas of grades and other land

Grade/Other land	Area (hectares)	% surveyed
2	3.4	5.2
3a	15.2	23.1
3b	37.2	56.5
Other land	10.0	15.2
Total agricultural land	55.8	84.8
Total survey area	65.8	100.0

7. The fieldwork was conducted at an average density of 1 boring per hectare. A total of 59 borings and 3 soil pits were described.

8. Land mapped as grade 2 (very good quality land) occurs in a small area in the north eastern part of the site, and is restricted to this grade due to a slight droughtiness limitation. Land mapped as subgrade 3a (good quality land) occurs in the extreme north western part of the site, and in a narrow ribbon in a north/south direction in the centre of the site. This land is restricted to this grade due to a moderate wetness and workability limitation. The remainder of the land is mapped as subgrade 3b (moderate quality land), and is restricted to this grade due to a more severe wetness and workability limitation.

Factors Influencing ALC Grade

Climate

9. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.

10. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5km grid datasets using the standard interpolation procedures (Met. Office, 1989).

Table 2: Climatic and altitude data

Parameter	Value
Grid reference	SP724550
Altitude (m, AOD)	80
Accumulated Temperature (day °C, Jan.–June)	1396
Average Annual Rainfall (mm)	636
Field Capacity Days	138
Moisture Deficit, Wheat (mm)	106
Moisture Deficit, Potatoes (mm)	98
Overall Climatic Grade	1

11. The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.

12. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (AT0, January to June), as a measure of the relative warmth of a locality.

13. The combination of rainfall and temperature at this site mean there are no overriding climatic conditions, and therefore the climatic grade 1 is assigned.

Site

14. The majority of the site is at a height of approximately 80m AOD rising to 85m AOD on the northern, southern and western boundaries. The site is bounded in the east by open farmland with industrial units in the south east part, in the north by the Milton Malsor Road and industrial units, with open farmland and Station Road in the south. The western boundary largely follows the A43 (T) except where it includes Arm Farm which is on the western side of the main road. There are good examples of 'ridge and furrow' in the fields behind Arm Farm and to a lesser extent in the grass fields in the south of the site. In the arable area the 'ridge and furrow' has been ploughed out leaving a stripey effect of two different colour topsoils in an east/west direction. A small area in the north, adjacent to the industrial units, appears to have been restored.

Geology and soils

15. The published 1:63 360 scale geology map (Geol. Survey, 1969) shows the vast majority of the site to comprise Upper Lias Clay, with deposits of Glacial Sands and Gravel at the northern extreme.

16. The 1:250 000 reconnaissance soil survey map for the area (SSEW, 1983) shows the vast majority of the site to comprise soils of the Denchworth Association which are briefly described as slowly permeable seasonally waterlogged clayey soils with similar fine loamy over clayey soils. In the extreme north, soils of the Wick 1 Association are mapped which are briefly described as deep well drained coarse loamy and sandy soils, locally over gravel.

17. During the current detailed survey three main soil types were encountered.

Soil Type I

18. Soil Type I is confined to a small area in the north east of the site. Profiles typically comprise very slightly stony, slightly calcareous medium clay loam or sandy clay loam topsoil. This overlies slightly stony non-calcareous sandy clay loam or heavy clay loam upper subsoil. Lower subsoil comprises moderately stony, calcareous sandy clay loam (occasionally sandy clay). The soils are free draining and are assessed as Wetness Class I (q.v. Appendix II).

Soil Type II

19. Soil Type II occurs in the north west and in a narrow ribbon in the centre of the site. Profiles typically comprise very slightly stony, non-calcareous medium clay loam (occasionally heavy clay loam) topsoil, over very slightly stony, non-calcareous heavy clay loam upper subsoil. Lower subsoil comprises stoneless non-calcareous clay with gleying occurring at 40/45cm. These soils are typically assessed as Wetness Class III, but occasionally slightly better drained profiles occur (Wetness Class II).

Soil Type III

20. Soil Type III occurs over the remainder of the site. Profiles typically comprise stoneless, non-calcareous heavy clay loam (occasionally medium clay loam) topsoil over

slowly permeable stoneless clay subsoil. Gleying occurs at 30/35cm and the soils are assessed as Wetness Class IV, or less typically Wetness Class III.

Agricultural Land Classification

21. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1, page 1.

22. The location of the auger borings and pits is shown on the attached sample location map.

Grade 2

23. Land mapped as grade 2 occurs in the north east of the site and corresponds to the soils described in paragraph 18. The soils are free draining but with slightly/moderately stony subsoils the land is restricted to this grade due to a slight droughtiness limitation.

Subgrade 3a

24. Land mapped as subgrade 3a occurs in the north west and in a narrow ribbon in the centre of the site, and corresponds to the moderately well drained soils (Wetness Class III) described in paragraph 19, and is limited to this subgrade due to a moderate wetness and workability limitation. With the clay loam topsoils and slowly permeable subsoils care and timeliness with cultivations are required to avoid damage to soil structures. A few better drained profiles (Wetness Class II, Grade 2) were encountered, but these are not in discrete mappable areas.

Subgrade 3b

25. Land mapped as subgrade 3b occurs over the remainder of the site and corresponds to the imperfectly drained soils (Wetness Class IV, occasionally Wetness Class III) described in paragraph 20. With clay loam topsoils immediately over slowly permeable clay subsoils a more severe wetness and workability restriction limits the land to this subgrade. Considerable care and timeliness with cultivations will be required to avoid damage to soil structures.

Resource Planning Team
Huntingdon Statutory Group
ADAS Cambridge

SOURCES OF REFERENCE

British Geological Survey (1969) *Sheet No. 202, Towcester, Solid and Drift. Scale 1:63 360*
BGS: London.

Ministry of Agriculture, Fisheries and Food (1988) *Agricultural Land Classification of England and Wales: Revised guidelines and criteria for grading the quality of agricultural land.* MAFF: London.

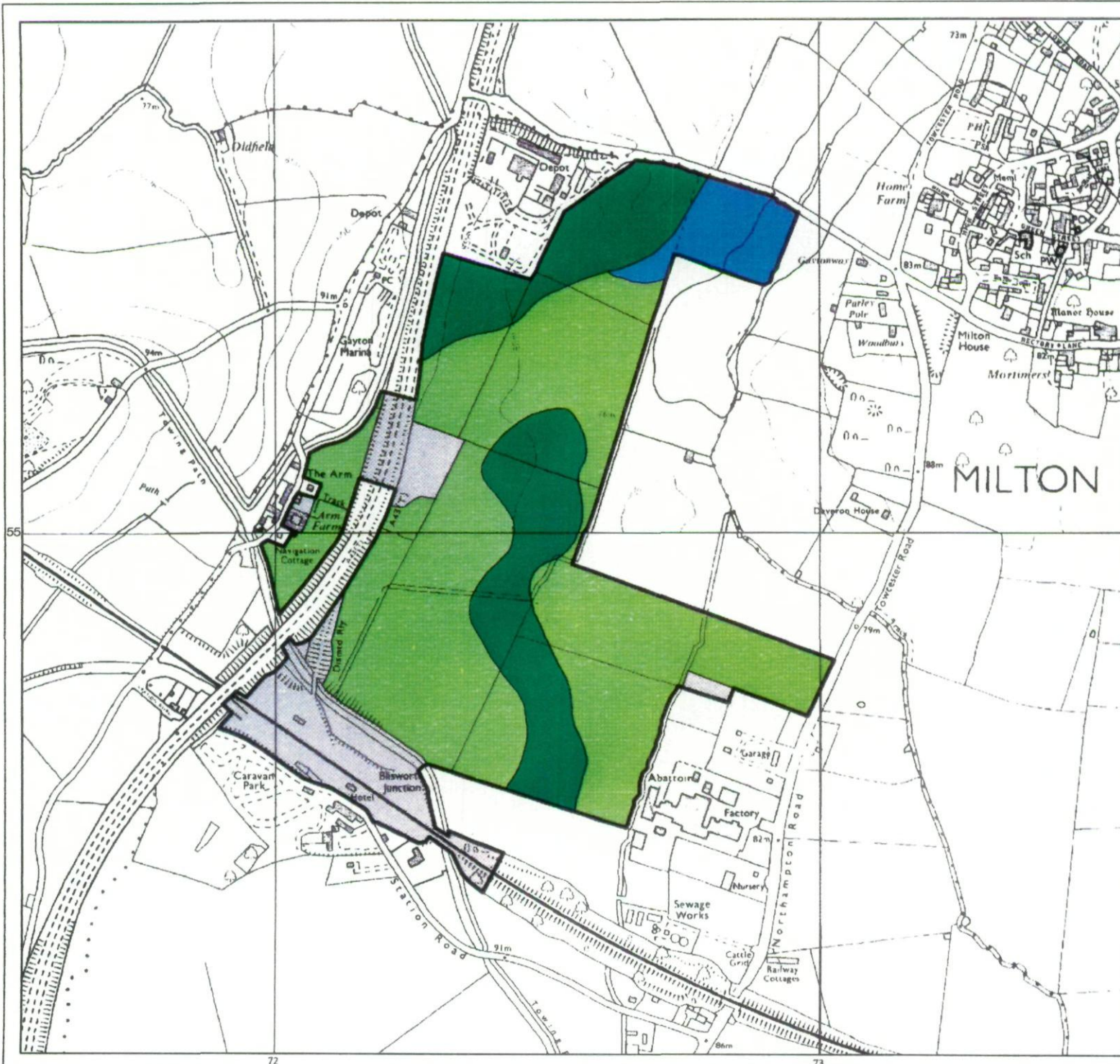
Met. Office (1989) *Climatological Data for Agricultural Land Classification.*
Met. Office: Bracknell.

Soil Survey of England and Wales (1983) *Sheet 3, Soils of Midland and Western England*
SSEW: Harpenden.

Soil Survey of England and Wales (1984) *Soils and their Use in Midland and Western England*
SSEW: Harpenden

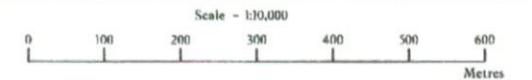
Agricultural Land Classification

Public Transport Interchange Blisworth, Northamptonshire



Legend

	Quality	Area (ha)
Grade 1	Excellent	nil
Grade 2	Very Good	3.4
Grade 3a	Good	15.2
Grade 3b	Moderate	37.2
Grade 4	Poor	nil
Grade 5	Very Poor	nil
*	Agricultural land not surveyed	nil
	Other land	10.0
—		Boundary of survey area
Total agricultural land area		55.8
Total survey area		65.8
* Not present within survey area		



Further details contained in MAFF (1988) Agricultural Land Classification of England and Wales - Revised guidelines and criteria for grading the quality of agricultural land. MAFF (publications), London SE99 7TP. The information is accurate at base map scale but any enlargement would be misleading. Reproduction in whole or in part by any means is prohibited without the prior permission of MAFF.

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Source maps: SP75SW and SP75NW
Reference no: 105/96 © Crown Copyright Reserved 1996


Agricultural Land Classification

Public Transport Interchange
Blisworth, Northamptonshire

Sample Point Map

Legend

 1 Location of soil pit

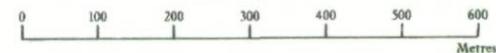
 1 Location of auger
sample point

 Boundary of
survey area

 Agricultural land not
surveyed

 Other land

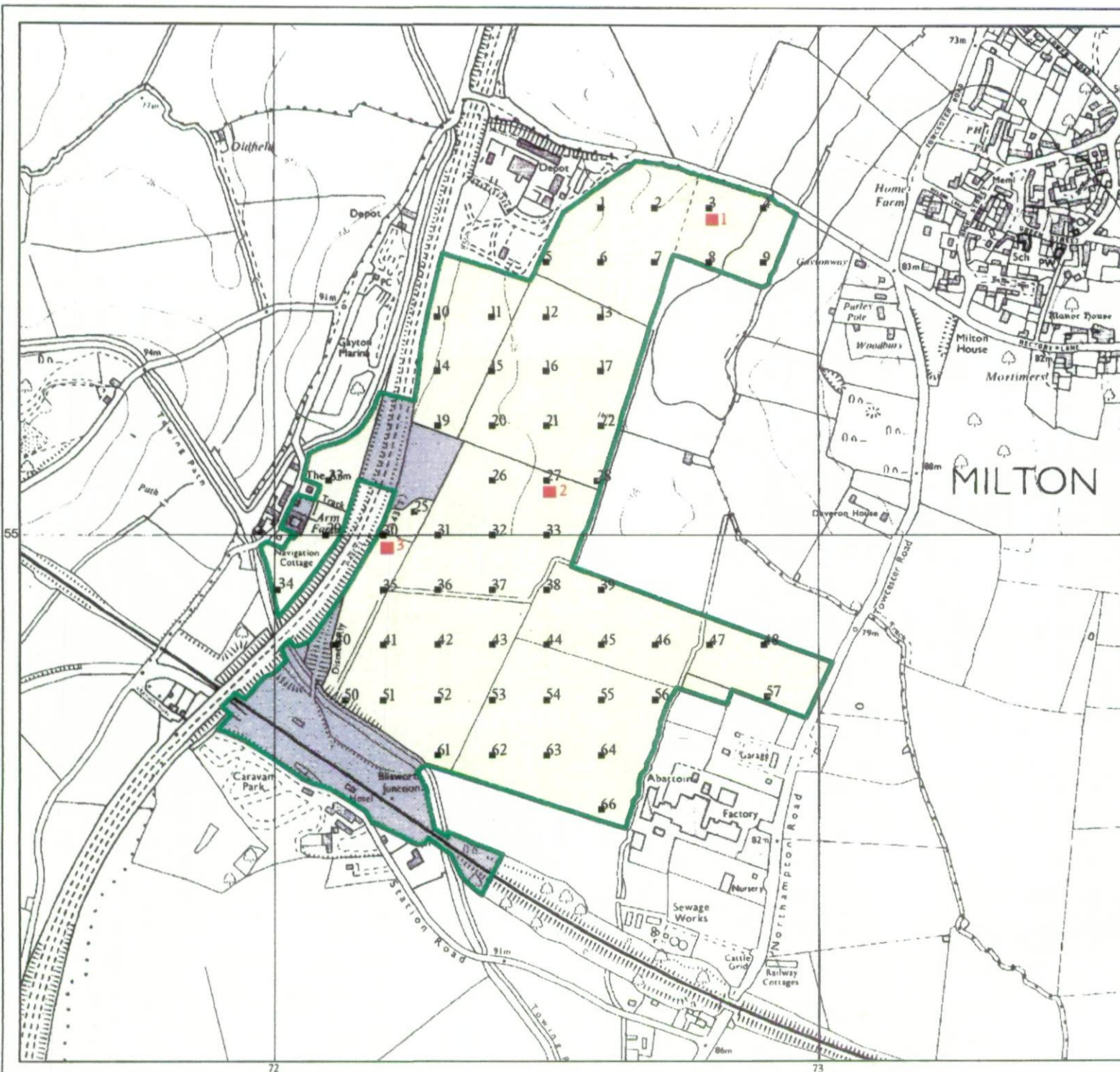
Scale - 1:10,000



Further details contained in MAFF (1988) Agricultural Land Classification of England and Wales - Revised guidelines and criteria for grading the quality of agricultural land. Maff (publications), London SE99 7TP. The information is accurate at base map scale but any enlargement would be misleading.

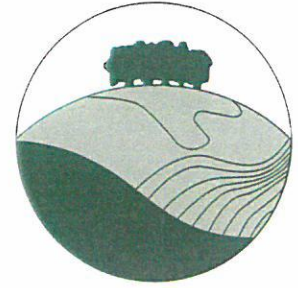
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Annex 2: RAC Reconnaissance ALC survey

Reading Agricultural Consultants



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DRAFT

**Land South of
Milton Malsor
Northampton**

**Semi-detailed
Agricultural Land Classification**

October 1999

**For: The Barton Willmore Planning Partnership
On behalf of: Wilcon Homes Northern Ltd**

Directors: T R. Worthington, BScHonsAgricSci, MIBiol; C. J. Duncan, BScAgric. NDA. MIAgrM; P. W Danks, BScHons. Cert.Ed;
Secretary: S. J. Fordham, BSc, Dip Agric Sci (SoilSci).
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1. SITE AND CLIMATIC CHARACTERISTICS

1.1 General features and land form

The area surveyed lies to the south of Milton Malsor and to the north of Blisworth, and a main railway line.

The total area surveyed extends to about 200ha which is separated into two by the A43; 148ha to the east and 52ha to the west. Most is agricultural land (194ha) in arable cultivation under winter cereals, stubble or recently ploughed. In the east around Lodge Farm and Milton Crossing and in the west on fields adjacent to Blisworth Junction there is grass which had sheep and cattle grazing on it at the time of survey. The remaining "other" land (6ha) comprises farm buildings and their curtilages, houses and gardens, a track and railway line.

The highest ground is in the east and lies at an altitude of about 95m aOD. The land then slopes gently, locally moderately, to the north to lower ground at about 80m aOD.

Surface form is mainly smooth to gently undulating, although locally in the south adjacent to the railway line there are areas of strongly undulating ground.

1.2 Soil parent materials and natural drainage

There are four main soil parent materials across the site.

The most extensive occurs across the southern half of the site where clayey soils are developed in greyish, stoneless drift. Soil profiles typically comprise dark greyish brown, clayey (occasionally fine loamy) upper layers over greyish, predominantly clayey (locally silty clay), gleyed and poorly permeable lower layers.

On the higher ground to the east of the railway, soil profiles are derived from Chalky Boulder Clay which contains many small chalk stones and occasional flints. There is one main soil type. Soil profiles typically comprise dark greyish brown, non-calcareous, slightly stony, heavy loamy or clayey upper layers over greyish brown and calcareous, clayey, gleyed and poorly permeable lower layers containing many chalk stones.

Natural drainage of both these soil types is mainly by lateral subsurface seepage across poorly permeable subsoil layers.

In the west, similar but non-calcareous soil profiles occur which lack gleying features in the upper layers. Natural drainage of these soils is initially by relatively free vertical percolation down through the soil profiles layers then by lateral subsurface seepage across poorly permeable subsoil layers.

In the north, soils are derived from glaciofluvial drift. Soil profiles typically comprise dark brown, slightly stony, coarse loamy upper layers over brown and yellowish brown, slightly stony, coarse loamy and sandy lower layers. Natural drainage is mainly by relatively free vertical percolation down through the soil profile layers.

1.3 Climatic factors

Climatic factors affecting land quality, especially by their interactions with soil factors, are set out below. These have been interpolated from the Meteorological Office's standard 5km grid point data set for two representative locations SP 736545 (east) and SP 724549 (west) at 85 and 80m aOD respectively.

Average annual rainfall (AAR): 640-642mm

Accumulated temperature >0°C (AT0): 1390-1396day°

Field Capacity Days (FCD): 137-140 days

Moisture deficit - winter wheat (MDw): 105-106mm

Moisture deficit - potatoes (MDp): 97-98mm

The local climate is moderately warm and dry. The FCD regime is just below the national average for lowland England (150 days). The "key" crop-adjusted moisture deficits are moderately large.

2. AGRICULTURAL LAND QUALITY AND MAIN SOIL CHARACTERISTICS

2.1 Soil survey methods

Fifty-seven soil profiles were examined at regular intervals using Edelman (Dutch) augers and spades at the approximate locations shown on Plan RAC 1, giving an observation density on the agricultural land of about 1 per 3.5ha. Soil physical characteristics were also examined in more detail in three soil inspection pits (close to the location of selected auger borings): the locations of these are also shown on Plan RAC 1.

Texture; significant stoniness; colours (especially gley mottle colours indicating seasonal wetness), density, degree of fissuring and macroporosity (together indicating structural conditions; permeability and rooting opportunities); free calcium carbonate; organic matter content and thickness were assessed for each main soil horizon to 1.2m depth.

Soil Wetness Class (WC) was inferred from the presence or absence of, and depth to, greyish and ochreous gley mottling and/or poorly permeable subsoil layers at least 150mm thick.

2.2 Agricultural Land Classification (ALC) and main limitations

Soil, site and climatic constraints were evaluated mainly by reference to MAFF's 1988 revised guidelines and criteria.

The most extensive limitation is seasonal wetness affecting the land's workability and accessibility for livestock grazing. The wetness limitation derives from moderately to poorly permeable subsoil impeding drainage to different degrees of severity (depending on the depth of occurrence) and causing seasonal waterlogging of the upper soil profile layers. This constraint limits the land mainly to subgrade 3b, but also subgrade 3a and grade where it is less severe.

Slight droughtiness from reduced soil profile moisture holding capacity is a limitation on land to the north. This limitation constrains land to grade 2.

In the south, on land adjacent to the railway, gradients of between 7 and 11° are limiting to subgrade 3b.

Plan RAC 2 shows the extent and distribution of land in the different ALC grades and subgrades. Most of the agricultural land (about 73%) is lower quality in subgrade 3b (about 142ha). The remaining land is higher quality in subgrade 3a (about 33ha: 17%) and grade 2 (about 19ha: 10%).

These findings are based on a semi-detailed examination. Thus if the land were resurveyed in greater detail it is possible that there would be local changes to the grading. However, it is not anticipated that these would be substantial.

2.3 Brief description of the land subgrade

Grade 2

Land in this grade is the least extensive, occurring mainly in the north.

Soil profiles typically comprise dark brown, very slightly stony, sandy loam (occasionally sandy clay loam) topsoils over brown, slightly stony, sandy loam or sandy clay loam upper subsoils over yellowish brown, slightly to moderately stony, similarly-textured or loamy sand and sand lower subsoils. Occasionally, greyish brown, clayey, gleyed and poorly permeable lower subsoils occur below about 700mm.

These soils are well or moderately well drained (WC 1 or 2) and are constrained by a slight droughtiness or wetness/workability limitation.

Subgrade 3a

Land in this subgrade occurs mainly on land to the west, but also on land to the east.

Soil profiles typically comprise dark greyish brown, very slightly stony, heavy clay loam topsoils over brown or brownish grey, stoneless to very slightly stony, clayey upper subsoils over greyish brown, clayey, gleyed and poorly permeable lower subsoils.

These soils are moderately well drained (WC 2) and constrained by a seasonal wetness/workability limitation.

Subgrade 3b

Land in this subgrade is the most extensive.

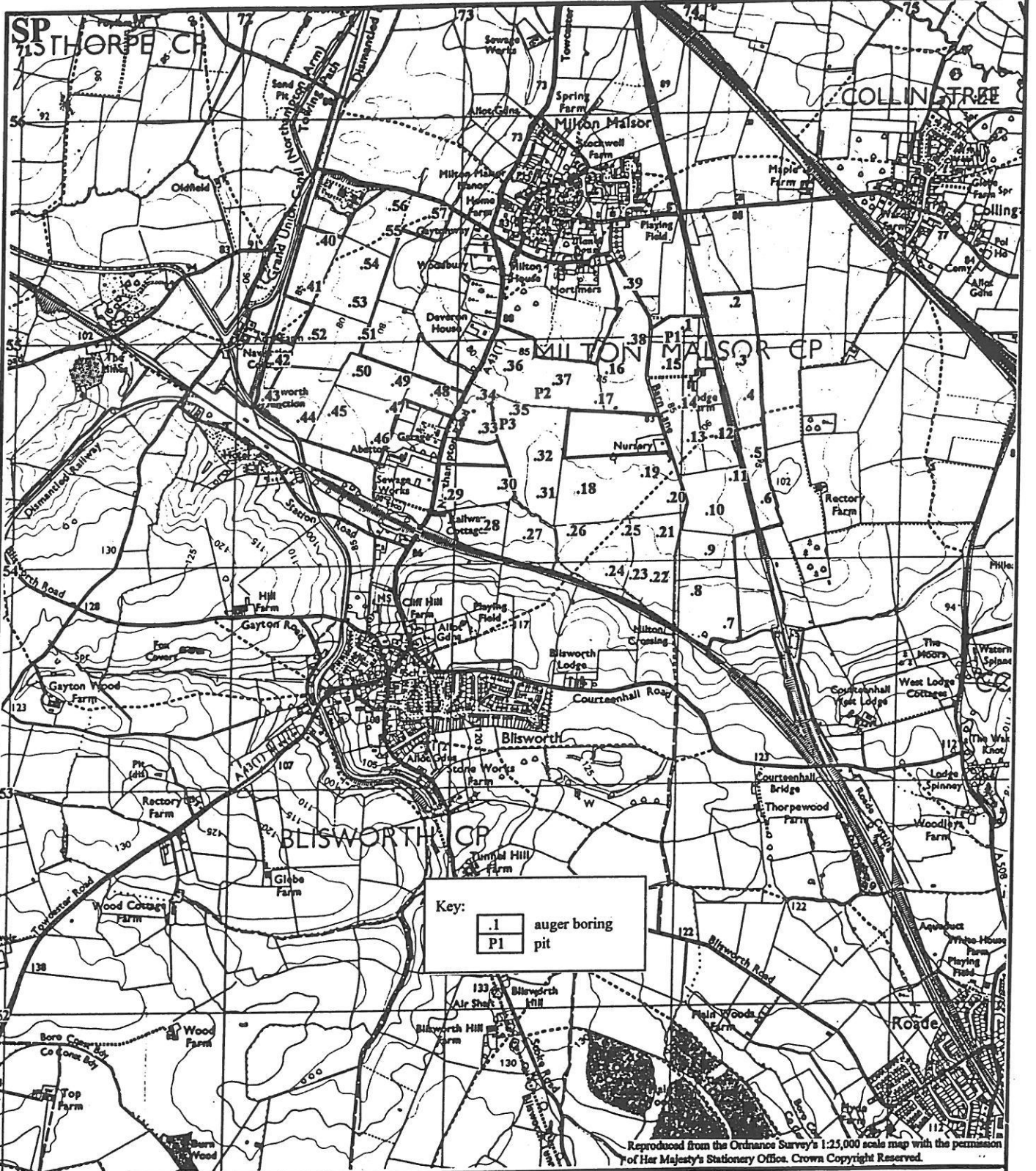
Soil profiles typically comprise dark greyish brown, very slightly stony, clayey (occasionally heavy clay loam) topsoils over greyish brown, predominantly clayey (locally silty clay), gleyed and poorly permeable lower subsoils.

On the higher ground to the east of the railway, soil profiles typically comprise dark greyish brown, non-calcareous, slightly stony, clay or heavy clay loam topsoils over greyish brown, calcareous, slightly stony, clayey, upper subsoils over greyish brown, calcareous, clayey gleyed and poorly permeable lower subsoils containing many chalk stones.

Both these soils types are mainly imperfectly drained (WC 3), occasionally poorly drained (WC 4) and constrained by a moderately severe wetness/workability limitation.

Locally, in the south, on land adjacent to the railway, gradients of between 7 and 11° are limiting to subgrade 3b.

PLANS RAC 1 & 2



Plan RAC 1: Observation Points (approximate locations)

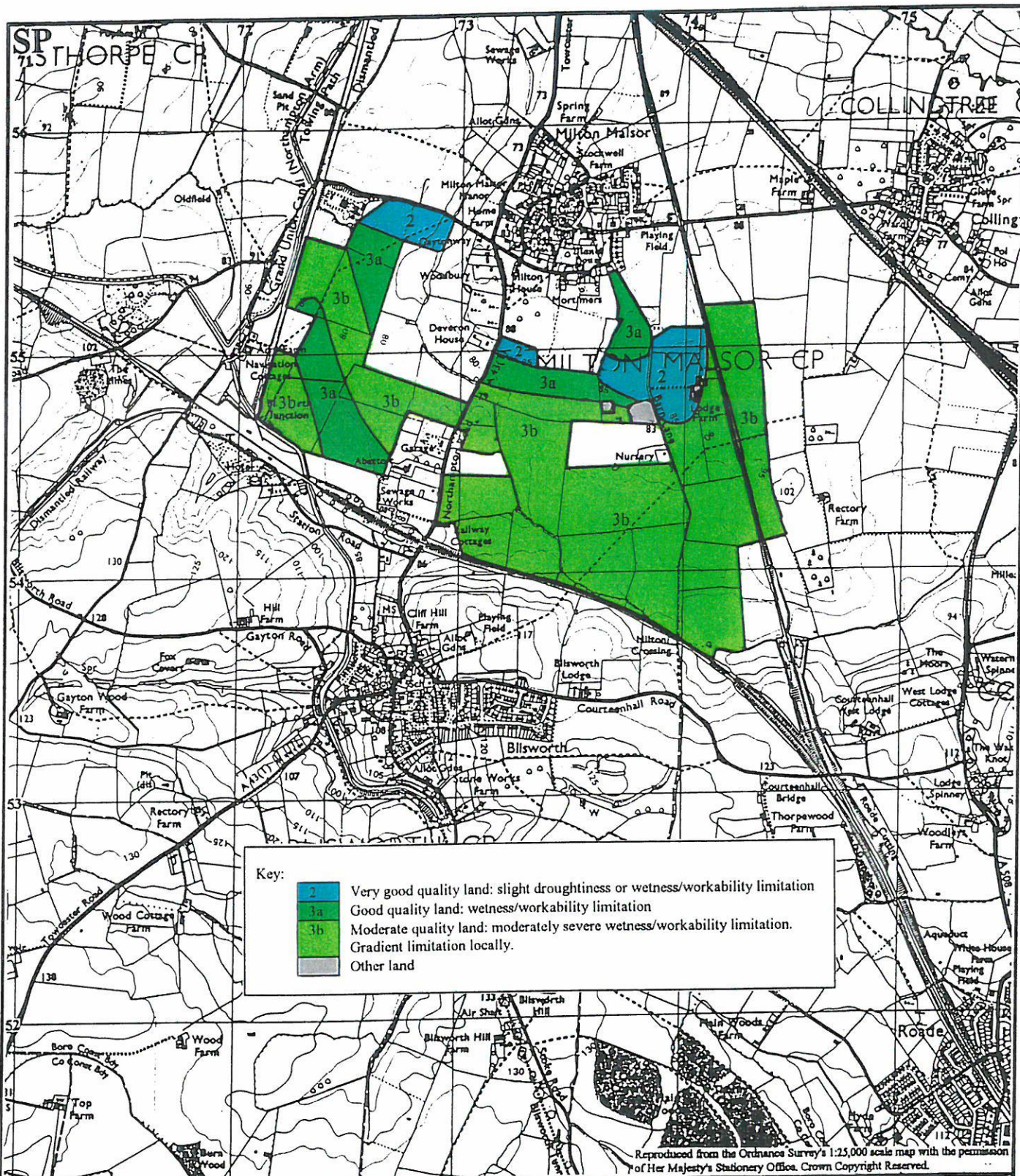
Client: The Barton Willmore Planning Partnership - Reading
 On behalf of: Wilcon Homes Northern Ltd

LAND SOUTH OF MILTON MALSOR

Reading
 Agricultural
 Consultants



Races Farm, Aston Street, Aston Tirrold, Didcot, Oxon.
 OX11 9DJ Tel: (01238) 881818 Fax: (01238) 881811



Plan RAC 2: Agricultural Land Classification (ALC)

Client: The Barton Willmore Planning Partnership - Reading

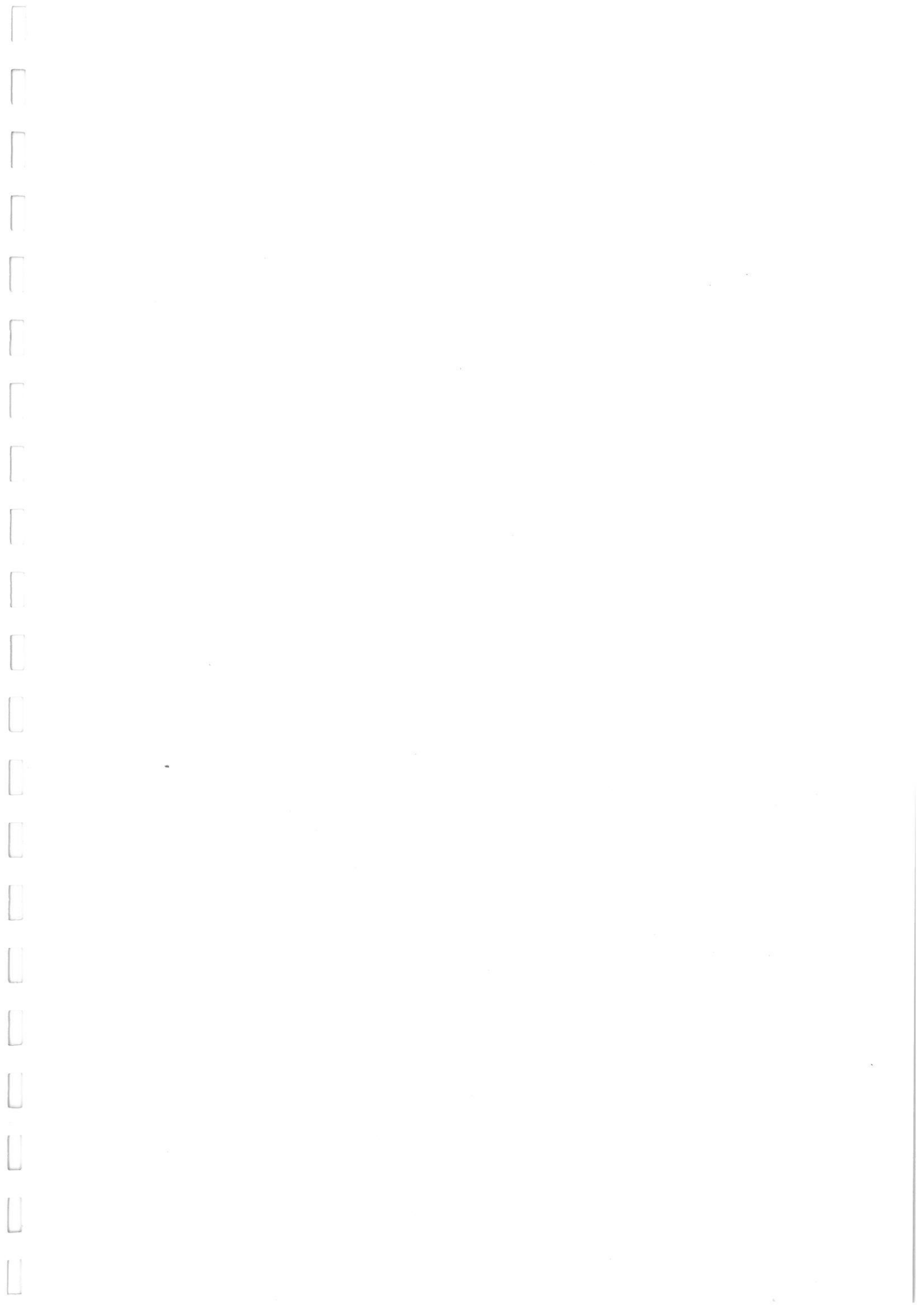
On behalf of: Wilcon Homes Northern Ltd

LAND SOUTH OF MILTON MALSOR

**Reading
Agricultural
Consultants**



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Annex 3: Soil Profile Summaries

Wetness / workability limitations are determined according to the methodology given in Appendix 3 of the ALC guidelines, MAFF 1988
 Droughtiness calculations are made according to the methodology given in Appendix 4 of the ALC guidelines, MAFF 1988.
 Grades are shown for drought, wetness and any other soil or site factors which are relevant. The overall Grade is set by the most limiting factor and shown on the right.

Stone types		
%	TA _v	E _{av}
hard	1	0.5
Chalk	10	7

hard flint & pebble

Climate Data	
MDwheat	106
MDpotato	97
FCD	137

Wetness Class Guidelines	II	III	IV	V
SPL within 80cm, gleying within 40cm	>65cm	37-65cm	<37cm	
SPL within 80cm, gleying at 40-70cm	>47cm	<47cm		
No SPL but gleying within 40cm	coarse subsoil	/	other cases	//
No SPL but gleying within 40-70cm	coarse subsoil	/	other cases	/

Maximum depth of auger penetration is underlined

Site No.	Depth cm	Texture	Colour	Mottle colour	abundance	stone% hard	stone% Chalk	Structure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
1	T 0 40	mCL	10YR4/2			1			71	71	n	n	III	3a	3a	WE
	40 65	C	10YR5/3	och	cff			poor	24	33	y	y				
	65 100	C	10YR5/2	och	cmf			poor	25	7	y	y				
	100 105	SCL	10YR5/4	och	cff				5	0	y	n				
	105 120	C	5GY4/1	och	mfd			poor	11	0	y	y				
								Total	135	110						
								MD	29	13						
								Droughtiness grade(DR)	2	1						
2	T 0 35	hCL	10YR4/2			1		-	62	62	n	n	//	3a	3a	WE
	35 60	C	10YR5/3	och	cff				32	40	y	n				
	<u>60</u> 120	C	10YR5/3	och	cff				48	16	y	n				
								Total	142	118						
								MD	36	21						

														Droughtiness grade(DR)						
														1	1					
3	T	0	32	hZCL	10YR4/2			1	-	60	60	n	n	//	3a	3a	WE			
		32	50	C	10YR5/2	och	cff			29	29	y	n							
		50	70	C	10Y4/1	och	cfđ		poor	14	26	y	y							
		70	80	C	10YR5/3	och	cfđ			8	0	y	n							
		80	100	C	10Y5/1	och	mfp		poor	14	0	y	y							
		100	120	LmS	10YR5/3	och	cff			12	0	y	n							
									Total	137	115									
									MD	31	18									
														Droughtiness grade(DR)						
														1	1					
4	T	0	35	hZCL	10YR4/2			1	-	66	66	n	n	/V	3b	3b	WE			
		35	60	C	10YR5/3	och	cff		poor	27	33	y	y							
		60	85	C	10Y5/1	och	mfp		poor	18	13	y	y							
		85	120	SCL	10YR5/3	och	cff			35	0	y	n							
									Total	145	111									
									MD	39	14									
														Droughtiness grade(DR)						
														1	1					
5	T	0	40	C	10YR4/2			1	-	67	67	n	n	/V	3b	3b	WE			
		40	60	C	10YR5/3	och	cff		poor	20	26	y	y							
		60	120	C	10GY5/1	och	cfđ		poor	42	13	y	y							
									Total	129	106									
									MD	23	9									
														Droughtiness grade(DR)						
														2	2					
6	T	0	32	C	10YR5/2			1	-	54	54	n	n	/V	3b	3b	WE			
		32	75	C	10YR5/3	och	cfđ		poor	41	49	y	y							
		75	120	C	10G5/1	och	mfp		poor	32	0	y	y							
									Total	126	103									
									MD	20	6									

														Droughtiness grade(DR)		2	2				
7	T	0	40	hCL	10YR5/2			1	-	71	71	n	n	IV	3b	3b	WE				
		40	75	C	10YR5/2	och	cfp		poor	31	39	y	y								
		75	120	C	10G5/1	och	mfp		poor	32	0	y	y								
										Total	133	110									
										MD	27	13									
														Droughtiness grade(DR)		2	1				
8	T	0	40	hCL	10YR5/2			1	-	71	71	n	n	IV	3b	3b	WE				
		40	120	C	10YR5/2	och	cfp		poor	62	39	y	y								
										Total	133	110									
										MD	27	13									
														Droughtiness grade(DR)		2	1				
9	T	0	40	hCL	10YR3/2	yellow	mmd	1	-	71	71	n	n	//	3a	3a	WE				
		40	70	C	10YR5/3	och	cmp	1		32	48	y	n								
		70	120	C	10YR3/2	och	cmp	1	poor	35	0	y	y								
										Total	138	119									
										MD	32	22									
														Droughtiness grade (DR)		1	1				
10	T	0	30	hCL	10YR3/2			1	-	53	53	n	n	IV	3b	3b	WE				
		30	55	C	10YR4/2	och	cmd	1	poor	29	32	y	y								
		55	120	C	10YR3/2	och	cmd	10	poor	41	18	y	y								
										Total	124	103									
										MD	18	6									
														Droughtiness grade (DR)		2	2				
11	T	0	30	C	10YR4/2			1	-	51	51	n	n	IV	3b	3b	WE				
		30	70	C	2.5Y3/1	och	mcp	1	poor	40	52	y	y								
		70	120	C	10YR5/6	och	ccp	1		40	0	n	n								
										Total	130	102									
										MD	24	5									
																Sandy Inclusions in SS					

													Droughtiness grade (DR)		2	2				
12	T	0	33	C	10YR4/2	yellow	fmd	1	-	56	56	n	n	///	3b	3b	WE			
		33	60	C	2.5Y3/1	och	mmd	1	poor	29	35	y	y							
		60	85	C	2.5Y3/1	och	ccp	1		20	16	y	n							
		85	120	C	2.5Y3/1	och	mmd	1	poor	24	0	y	y							
										Total	128	106								
										MD	22	9	Sandy Inclusions in SS							
													Droughtiness grade (DR)		2	2				
13	T	0	28	hCL	10YR3/2	grey	fmd	1	-	50	50	n	n	///	3b	3b	WE			
		28	60	C	2.5Y3/1	och	cmd	1		43	51	y	n							
		60	120	C	2.5Y3/1	och	cmd	1	poor	42	13	y	y							
										Total	134	114								
										MD	28	17	Sandy Inclusions in SS							
													Droughtiness grade (DR)		2	1				
14	T	0	30	hCL	10YR3/2			1	-	50	50	n	n	/	2	2	WE			
		30	40	C	2.5Y3/1	och	mmd	1		43	51	y	n							
		40	120	SL	10YR6/8	och	mmd	1		42	13	y	n							
										Total	134	114								
										MD	28	17								
													Droughtiness grade (DR)		2	1				
15	T	0	25	C	10YR3/2	och	fmd	1	-	42	42	n	n	IV	3b	3b	WE			
		25	65	C	2.5Y3/1	och	mmd	1	poor	43	52	y	y							
		65	120	C	10YR6/8	grey	cmp	10		40	7	n	n							
										Total	125	101								
										MD	19	4								
													Droughtiness grade (DR)		2	2				
16	T	0	33	C	10YR3/2	och	fmd	1	-	56	56	n	n	//	3b	3b	WE			
		33	80	C	10YR4/2	och	ccd	1		51	59	y	n							
		80	120	C	10YR4/2	och	ccd	1	poor	28	0	y	y							

									Total	134	114						
									MD	28	17						
									Droughtiness grade (DR)	2	1						
17	T	0	35	C	2.5Y4/3	och	fmd	1	-	59	59	n	n	IV	3b	3b	WE
		35	120	C	10YR5/3	och	cmd	1	poor	68	45	y	y				
									Total	127	104						
									MD	21	7						
									Droughtiness grade (DR)	2	2						
18	T	0	30	C	2.5Y4/3	och	fmd	1	-	51	51	n	n	IV	3b	3b	WE
		30	120	C	10YR5/3	och	cmd	1	poor	74	52	y	y				
									Total	125	102						
									MD	19	5						
									Droughtiness grade (DR)	2	2						
19	T	0	38	C	2.5Y4/3			1	-	64	64	n	n	III	3b	3b	WE
		38	45	C	10YR5/3	och	mmd	1		11	11	y	n				
		45	120	C	10YR5/3	och	cmd	1	poor	55	32	y	y				
									Total	130	107						
									MD	24	10						
									Droughtiness grade (DR)	2	1						
20	T	0	38	hSCL	2.5Y4/3	och	ffd	1	-	64	64	n	n	III	3b	3b	WE
		38	45	SC	10YR5/3	och	cmd	1		10	10	y	n				
		45	120	SC	10YR5/3	och	cmd	1	poor	62	32	y	y				
									Total	136	107						
									MD	30	10						
									Droughtiness grade (DR)	1	2						
21	T	0	30	hSCL	2.5Y4/3		Femns	1	-	51	51	n	n	IV	3b	3b	WE
		30	120	C	10YR5/3	och	cmd	1	poor	99	59	y	y				
									Total	150	110						
									MD	44	13						

														Droughtiness grade (DR)		1	1			
22	T	0	28	hCL	2.5Y4/2			2	-	49	49	n	n	IV	3b	3b	WE			
		28	90	C	10YR5/2	och	mmd	2	poor	56	54	y	y							
		90	120	C	10YR5/1	och	mmd	2	poor	21	0	y	y							
										Total	126	103								
										MD	20	6								
														Droughtiness grade (DR)		2	2			
23	T	0	30	hCL	2.5Y4/2	och	fmd	2	-	53	53	n	n	IV	3b	3b	WE			
		30	120	C	10YR5/2	grey	ccp	2	poor	74	51	y	y							
										Total	127	104								
										MD	21	7								
														Droughtiness grade (DR)		2	2			
24	T	0	30	hCL	2.5Y4/2	och	fmd	2	-	53	53	n	n	IV	3b	3b	WE			
		30	120	C	10YR5/2	och	cmd	2	poor	74	51	y	y							
										Total	127	104								
										MD	21	7								
														Droughtiness grade (DR)		2	2			
25	T	0	38	hCL	2.5Y4/2	och	fmd	2	-	67	67	n	n	IV	3b	3b	WE			
		38	120	C	10YR5/3	och	mmd	2	poor	63	41	y	y							
										Total	131	108								
										MD	25	11								
														Droughtiness grade (DR)		2	2			
26	T	0	30	hCL	10YR4/2			2	-	53	53	n	n	IV	3b	3b	WE			
		30	120	C	10YR4/2	och	mmd	2		86	63	y	y							
										Total	139	116								
										MD	33	19								
														Droughtiness grade (DR)		3a	2			
27	T	0	25	hCL	2.5Y4/2	och	fmd	2	-	44	44	n	n	IV	3b	3b	WE			
		25	120	C	10YR5/2	och	cmd	2	poor	80	57	y	y							

poss disturbed, mixed profile clay and sand
 poss organic t/s

										Total	124	102									
										MD	18	5									
										Droughtiness grade (DR)		1	2								
28	T	0	35	hCL	2.5Y4/2	och	fff	2	-	62	62	n	n	IV	3b	3b	WE				
		35	120	C	10YR5/3	och	cmd	2	poor	67	45	y	y	hill							
										Total	129	106									
										MD	23	9									
										Droughtiness grade (DR)		3a	2								
29	T	0	30	hCL	2.5Y4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE				
		30	120	C	10YR5/3	och	cmd	2	poor	74	51	y	y	top of hill							
										Total	127	104									
										MD	21	7									
										Droughtiness grade (DR)		1	2								
30	T	0	30	C	2.5Y4/2	och	fff	2	-	50	50	n	n	IV	3b	3b	WE				
		30	120	C	10YR5/3	och	cmd	2	poor	74	51	y	y								
										Total	124	101									
										MD	18	4									
										Droughtiness grade (DR)		3a	2								
31	T	0	32	C	2.5Y4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE				
		32	120	C	10YR5/3	och	cmd	2	poor	71	48	y	y								
										Total	124	102									
										MD	18	5									
										Droughtiness grade (DR)		1	2								
32	T	0	30	C	2.5Y4/2			2	-	50	50	n	n	III	3b	3b	WE				
		30	60	C	10YR5/3	och	mmf	5		38	46	y	n								
		60	120	C	10YR5/3	och	mmf	2	poor	41	13	y	y								
										Total	129	109									
										MD	23	12									
										Droughtiness grade (DR)		3a	2								

33	T	0	30	C	10YR4/2			2	-	50	50	n	n	IV	3b	3b	WE	
		30	120	C	10YR4/2	och	mmf	2		41	13	y	y					
										Total	129	109						
										MD	23	12						
										Droughtiness grade (DR)		1	2					
34	T	0	30	C	10YR4/2	och	mmp	2	-	50	50	y	n	III	3b	3b	WE	
		30	50	C	10YR4/2	och	mmp	2		41	13	y	n					
		50	120	C	10YR3/1	och	mmd	2	poor	41	13	y	y					
										Total	129	109						
										MD	23	12						
										Droughtiness grade (DR)		3a	2					
35	T	0	30	C	2.5Y4/2	och	fff	2	-	50	50	n	n	IV	3b	3b	WE	
		30	120	C	10YR5/3	och	mmd	2	poor	74	51	y	y					
										Total	124	101						
										MD	18	4						
										Droughtiness grade (DR)		1	2					
36	T	0	32	hCL	10YR4/2			1	-	57	57	n	n	IV	3b	3b	WE	
		32	105	C	10YR5/2	och	cfp		poor	62	49	y	y					
		105	120	C	10Y5/1	och	cfp		poor	11	0	y	y					
										Total	129	106						
										MD	23	9						
										Droughtiness grade(DR)		2	2					
37	T	0	30	hCL	10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE	
		30	75	C	10YR5/3	och	cfp		poor	44	52	y	y					
		75	120	C	10Y5/1	och	cfp		poor	32	0	y	y					
										Total	128	105						
										MD	22	8						
										Droughtiness grade(DR)		2	2					
38	T	0	30	hCL	10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE	

		30	100	C		10YR5/3	och	cfp		poor	61	52	y	y				
		100	120	C		10Y5/1	och	cfp		poor	14	0	y	y				
										Total	128	105						
										MD	22	8						
										Droughtiness grade(DR)	2	2						
Pit 1	T	0	30	hCL		10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE
		30	75	C		10YR5/3	och	cfp		poor	44	52	y	y				
		75	120	C		10Y5/1	och	cfp		poor	32	0	y	y				
										Total	128	105						
										MD	22	8						
										Droughtiness grade(DR)	2	2						
39	T	0	35	hCL		10YR4/2			1	-	62	62	n	n	I	2	2	WE
		35	120	C		10YR5/3	och	fff			80	56	n	n				
										Total	142	118						
										MD	36	21						
										Droughtiness grade(DR)	1	1						
40	T	0	30	hCL		10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE
		30	65	C		10YR5/3	och	cff	2	poor	36	45	y	y				
		65	120	C		10Y5/1	och	cfp		poor	39	7	y	y				
										Total	128	105						
										MD	22	8						
										Droughtiness grade(DR)	2	2						
41	T	0	40	hCL		2.5Y3/2		Femns	1	-	51	51			III	3b	3b	WE
		40	120	C		2.5Y5/3	och	cfp	1	poor	99	59	y	y				
										Total	150	110						
										MD	44	13						
										Droughtiness grade (DR)	1	1						
42	T	0	35	hCL		2.5Y3/2	och	fmd	1	-	62	62	n	n	IV	3b	3b	WE
		35	50	C		2.5Y3/2	och	mmd	1	poor	19	19	y	y				

Black organic layer at trans

		50	120	C		5Y4/1	och	cmd	1	poor	49	26	y	y				
										Total	130	107						
										MD	24	10						
										Droughtiness grade (DR)		2	1					
43	T	0	38	mCL		2.5Y3/2	och	fmd	1	-	68	68	n	n	III	3a	3a	WE
		38	45	hCL		2.5Y3/2	och	mmd	1		11	11	y	n				
		45	120	C		5Y4/1	och	cmd	1	poor	55	32	y	y				
										Total	134	111						
										MD	28	14						
										Droughtiness grade (DR)		2	1					
44	T	0	30	hCL		2.5Y3/2	och	fff	1	-	53	53	n	n	IV	3b	3b	WE
		30	70	C		2.5Y5/3	och	cfđ	1	poor	40	52	y	y				
		70	120	C		10YR5/2	och	cmd	1	poor	35	0	y	y				
										Total	128	105						
										MD	22	8						
										Droughtiness grade (DR)		2	2					
45	T	0	30	mCL		10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE
		30	50	C		10YR5/3	och	cff	2	poor	26	26	y	y				
		50	120	C		10Y5/1	och	cfđ		poor	49	26	y	y				
										Total	128	105						
										MD	22	8						
										Droughtiness grade(DR)		2	2					
46	T	0	30	C		10YR4/2			1	-	51	51	n	n	IV	3b	3b	WE
		30	55	C	slight	10YR5/2	och	cff		poor	30	33	y	y				
		55	120	C	mod	10YR5/1	och	cff	5		50	23	y	y/n				
										Total	130	106						
										MD	24	9						
										Droughtiness grade(DR)		2	2					
47	T	0	30	hCL		10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE

30	65	C		10YR5/3	och	cff			poor	37	46	y	y			
65	85	C		10YR5/3	och	cf-mf	10			16	8	y	n			
85	120	C		10Y4/1	och	cff			poor	25	0	y	y			
Total										130	107					
MD										24	10					
Droughtiness grade(DR)										2	2					

48	T	0	25	hCL		10YR4/2		1	-	45	45	n	n	IV	3b	3b	WE
		25	90	C		10YR5/3	och	cff		poor	61	59	y	y			
		90	105	C	slight	10YR5/4	och	cf-d			12	0	n	n			
		<u>105</u>	120	C	slight	10YR5/4	och	cf-d			12	0	n	n			
Total										129	103						
MD										23	6						
Droughtiness grade(DR)										2	2						

49	T	0	30	SCL		2.5Y3/2	och	fmp	1	-	51	51	n	n	II	2	2	WE
		30	70	C		2.5Y5/3	och	cff	1		48	63	y	n				
		70	120	SC		2.5Y5/3	och	cff	1		poor	40	0	y	y			
Total										138	114							
MD										32	17							
Droughtiness grade (DR)										1	1							

50	T	0	30	SCL		2.5Y3/2		1	-	51	51	n	n	III	3a	3a	WE
		30	50	C		2.5Y5/3	och	cmd	1		32	32	y	n			
		50	120	C		2.5Y5/3	grey	fmd	1		poor	49	26	y	y		
Total										131	108						
MD										25	11						
Droughtiness grade (DR)										2	1						

51	T	0	30	SZL		2.5Y3/2		1	-	56	56	n	n	III	2	2	WE
		30	50	SCL		2.5Y5/3	och	mff	1		30	30	y	n			
		50	75	SC		2.5Y5/3	grey	fmd	1		poor	20	26	y	y		
		75	120	C		10YR5/3	grey	mmd	1		poor	31	0	y	y		

										Total	137	112						
										MD	31	15						
										Droughtiness grade (DR)		1	1					
52	T	0	30	hCL	10YR4/2				1	-	53	53	n	n	/V	3b	3b	WE
		30	100	C	slight	10YR5/2	och	cff		poor	61	52	y	y				
		100	120	C	mod	10YR5/1	och	cff	5		15	0	y	y/n				
										Total	130	105						
										MD	24	8						
										Droughtiness grade(DR)		2	2					
53	T	0	30	C	10YR4/2				1	-	51	51	n	n	//	3b	3b	WE
		30	50	C	10YR5/3	och	fff				32	32	n	n				
		50	90	SCL	10YR5/3	och	cff			poor	32	26	y	y				
		90	120	C	10Y5/1	och	cfD			poor	21	0	y	y				
										Total	136	109						
										MD	30	12						
										Droughtiness grade(DR)		1	1					
54	T	0	30	SCL	2.5Y3/2				1	-	51	51	n	n	//	2	2	WE DR
		30	120	hSCL	2.5Y5/2	och	mfd		1		69	59	y	n				
										Total	120	110						
										MD	14	13						
										Droughtiness grade (DR)		2	1					
55	T	0	40	SCL	2.5Y3/2				1	-	67	67	n	n	/	1	1	
		40	120	SL	2.5Y5/3				1		91	45	n	n				
										Total	158	112						
										MD	52	15						
										Droughtiness grade (DR)		1	1					
56	T	0	40	SCL	2.5Y3/2				1	-	67	67	n	n	//	1-2	2	WE
		40	120	SC	2.5Y5/3	och	mff		1		84	45	y	n				
										Total	152	112						

									MD	46	15							
									Droughtiness grade (DR)	1	1							
57	T	0	30	ZCL	2.5Y3/2			1	-	56	56	n	n	/	1		1	
		30	50	C	2.5Y5/2			1		32	32	n	n					
		<u>50</u>	120	C	2.5Y5/2	och	mff	10		51	29	y	n					
									Total	139	117							
									MD	33	20							
									Droughtiness grade (DR)	1	1							
58	T	0	35	SCL	2.5Y3/2			1	-	59	59	n	n	//	2		2	WE
		35	70	SC	2.5Y5/2	och	fff	1		42	52	n	n					
		70	120	C	2.5Y5/2	och	fff	1	poor	35	0	n	y					
									Total	136	111							
									MD	30	14							
									Droughtiness grade (DR)	1	1							
59	T	0	30	SCL	2.5Y3/2			1	-	51	51	n	n	///	3a		3a	WE
		30	55	SC	2.5Y5/3	och	mmd	1		35	37	y	n					
		55	120	C	2.5Y5/3	och	cmd	1	poor	45	19	y	y					
									Total	130	107							
									MD	24	10							
									Droughtiness grade (DR)	2	2							
60	T	0	30	SCL	2.5Y3/2			1	-	51	51	n	n	/	1		2	DR
		30	50	SL	2.5Y5/3			1		30	30	n	n					
		50	120	mS	10YR5/8			1		35	14	n	n					
									Total	115	94							
									MD	9	-3							
									Droughtiness grade (DR)	2	2							
61	T	0	40	SCL	2.5Y3/2			1	-	67	67	n	n	/	1		2	DR
		40	75	SL	2.5Y5/3	och	mff	1		42	45	y	n					
		75	120	mS	10YR5/8			1		22	0	n	n					

														Total	132	112				
														MD	26	15				
														Droughtiness grade (DR)	2	1				
62	T	0	30	SCL	2.5Y3/2			1	-	51	51	n	n	/	1	2	DR			
		30	55	SL	2.5Y5/3			1		35	37	n	n							
		55	120	mS	10YR5/8			1		32	10	n	n							
														Total	118	98				
														MD	12	1				
														Droughtiness grade (DR)	2	2				
63	T	0	40	SL	2.5Y3/2			1	-	67	67	n	n	/	1	2	DR			
		40	50	LS	10YR5/7			1		9	9	n	n							
		50	120	mS	7.5YR6/4			1		35	14	n	n							
														Total	111	90				
														MD	5	-7				
														Droughtiness grade (DR)	2	2				
64	T	0	30	SL	2.5Y3/2			3	-	50	50	n	n	/	1	3a	DR			
		30	50	LS	10YR5/7			10		16	16	n	n							
		50	120	mS	10YR5/7			10		32	13	n	n							
														Total	98	79				
														MD	-8	-18				
														Droughtiness grade (DR)	3a	3a				
65	T	0	30	hCL	10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE			
		30	100	C	10YR5/3	och	cff		poor	61	52	y	y							
		100	120	C	slight 10YR5/1	och	cf	5		16	0	y	n							
														Total	130	105				
														MD	24	8				
														Droughtiness grade(DR)	2	2				
66	T	0	45	C	10YR4/2			1	-	76	76	n	n	III	3b	3b	WE			
		45	80	C	10YR5/2	och	cff		poor	28	33	y	y							

		80	120	C	slight	10YR5/1	och	cf	5		32	0	y	n				
										Total	135	108						
										MD	29	11						
										Droughtiness grade(DR)	2	1						
67	T	0	35	hCL		10YR4/2			1	-	62	62	n	n	/	2	2	WE DR
		35	60	C		10YR5/3	och	fff	5		31	38	n	n				
		<u>60</u>	120	C		10YR5/3	och	fff	20		39	13	n	n				
										Total	132	114						
										MD	26	17						
										Droughtiness grade(DR)	2	1						
68	T	0	35	hCL		10YR4/2			1	-	62	62	n	n	/V	3b	3b	WE
		35	60	C		10YR5/2	och	cf		poor	27	33	y	y				
		60	120	C	slight	10Y4/1	och	cmf	2	poor	42	13	y	y				
										Total	131	108						
										MD	25	11						
										Droughtiness grade(DR)	2	1						
69	T	0	32	C		10YR3/2			8	-	50	50	n	n	/V	3b	3b	WE
		32	80	C		10YR5/2	och	cmf	10	poor	40	45	y	y				
		<u>80</u>	120	C	slight	10Y4/1	och	cmf	20	poor	23	0	y	y				
										Total	113	95						
										MD	7	-2						
										Droughtiness grade(DR)	2	2						
70	T	0	35	C		10YR3/2			2	-	58	58	n	n	/V	3b	3b	WE
		35	75	C		10YR5/2	och	cmf	2	poor	36	45	y	y				
		75	85	C		10YR5/1	och	cmf	5		8	0	y	n				
		<u>85</u>	120	C		10YR5/1	och	cmf	20		23	0	y	n				
										Total	125	103						
										MD	19	6						
										Droughtiness grade(DR)	2	2						

71	T	0	35	mCL	10YR4/2			10	-	57	57	n	n	/	1	1	
		35	95	SCL	10YR5/4	och	cmf			68	53	n	n				
		95	120	SCL	10YR5/2	och	cmf			25	0	y	n				
										Total	150	110					
								MD	44	13							
									Droughtiness grade(DR)	1	1						
72	T	0	25	C	10YR4/3			10	-	39	39	n	n	/	1	3a	WK
		25	40	SCL	10YR5/4			20		18	18	n	n				
		40	120	SCL	10YR5/2			20		69	37	y	n				
										Total	126	93					
								MD	20	-4							
									Droughtiness grade(DR)	2	2						
73	T	0	38	mSL	10YR3/2			1	-	64	64	n	n	/	1	3a	DR
		38	60	LmS	10YR4/4			15		15	17	n	n				
		60	120	LmS	10YR4/4			20		29	7	n	n				
										Total	108	89					
								MD	2	-8							
									Droughtiness grade(DR)	3a	2						
74	T	0	38	mSL	10YR3/2			1	-	64	64	n	n	/	1	1	
		38	80	SCL	10YR4/4	och	fff	1		48	48	n	n				
		80	104	SCL	10YR4/1	och	fff	1		24	0	n	n				
		104	120	LmS	10YR4/6			1		10	0	n	n				
								Total	145	112							
								MD	39	15							
									Droughtiness grade(DR)	1	1						
75	T	0	30	mSL	10YR3/1				-	51	51	n	n	/	1	3a	DR
		30	70	LmS	10YR4/1	och	fff			30	36	n	n				
		70	85	mS	10YR4/6	och	fff			8	0	n	n				
		85	120	mS	10YR6/3	och	cff			18	0	y	n				

														Total	106	87				
														MD	0	-10				
														Droughtiness grade(DR)		3a	2			
76	T	0	35	SCL	10YR3/1			2	-	58	58	n	n	/	1	2	DR			
		35	70	SCL	10YR4/1	och	cff	10		39	48	y	n							
		70	120	LmS	10YR4/4					30	0	n	n							
														Total	127	106				
														MD	21	9				
														Droughtiness grade(DR)		2	2			
77	T	0	28	hCL	10YR4/2			1	-	50	50	n	n	///	3b	3b	WE			
		28	50	C	10YR5/3	och	cff			35	35	y	n							
		50	80	C	2.5Y5/3	och	cfp		poor	21	26	y	y							
		80	120	C	10Y5/1	och	mfd		poor	28	0	y	y							
														Total	134	111				
														MD	28	14				
														Droughtiness grade(DR)		2	1			
78	T	0	32	hCL	10YR4/2			1	-	57	57	n	n	IV	3b	3b	WE			
		32	65	C	2.5Y5/3	och	cff			41	53	y	y							
		65	120	C	10Y5/1	och	mfd		poor	39	7	y	y							
														Total	136	116				
														MD	30	19				
														Droughtiness grade(DR)		1	1			
79	T	0	25	SCL	10YR4/3			1	-	42	42	n	n	//	2	2	WE DR			
		25	55	C	7.5YR5/4	och	cff			44	48	n	n							
		55	90	C	10YR5/3	och	cfp		poor	25	20	y	y							
		90	120	C	10Y6/1	och	cfp		poor	21	0	y	y							
														Total	132	110				
														MD	26	13				
														Droughtiness grade(DR)		2	1			

80	T	0	28	SCL	10YR4/3			2	-	47	47	n	n	III	3a	3a	WE	
		28	60	C	10YR5/3	och	cfp			43	51	y	n					
		60	80	C	10YR5/3	och	cfp		poor	14	13	y	y					
		80	120	C	10Y6/1	och	cfp		poor	28	0	y	y					
		Total									132	111						
MD									26	14								
Droughtiness grade(DR)									2	1								
81	T	0	30	hCL	10YR4/3			2	-	53	53	n	n	IV	3b	3b	WE	
		30	60	C	10YR5/3	och	cff		poor	33	39	y	y					
		60	120	C	2.5Y5/3	och	cfp		poor	42	13	y	y					
		Total									128	105						
		MD									22	8						
Droughtiness grade(DR)									2	2								
82	T	0	28	hCL	10YR4/3			2	-	49	49	n	n	III	3b	3b	WE	
		28	60	C	10YR5/3	och	cff			43	51	y	n					
		60	100	C	10YR5/3	och	cff		poor	28	13	y	y					
		100	120	C	2.5Y5/3	och	cfp		poor	14	0	y	y					
		Total									135	114						
MD									29	17								
Droughtiness grade(DR)									2	1								
83	T	0	28	C	10YR4/2			2	-	47	47	n	n	IV	3b	3b	WE	
		28	80	C	2.5Y5/3	och	cfp	5	poor	47	52	y	y					
		80	120	C	2.5Y5/3	och	cfp	10	poor	25	0	y	y					
		Total									119	99						
MD									13	2								
Droughtiness grade(DR)									2	2								
84	T	0	30	C	10YR4/2			2	-	50	50	n	n	IV	3b	3b	WE	
		30	70	SC	2.5Y5/3	och	cfp	5	poor	40	50	y	y					
		70	80	SC	2.5Y5/3	och	cfp	20		8	0	y	n					

		<u>80</u>	120	SC	2.5Y5/3	och	cf	20		32	0	y	n				
									Total	131	100						
									MD	25	3						
									Droughtiness grade(DR)	2	2						
85	T	0	25	C	10YR4/2			2	-	42	42	n	n	IV	3b	3b	WE
		25	95	C	10YR5/3	och	cf		poor	64	59	y	y				
		95	120	C	2.5Y5/3	och	cf		poor	18	0	y	y				
									Total	123	100						
									MD	17	3						
									Droughtiness grade(DR)	2	2						
86	T	0	30	hCL	10YR5/2				-	54	54	n	n	IV	3b	3b	WE
		30	75	C	2.5Y5/3	och	cf		poor	44	52	y	y				
		75	120	C	10Y5/1	och	cmd		poor	32	0	y	y				
									Total	129	106						
									MD	23	9						
									Droughtiness grade(DR)	2	2						
87	T	0	30	hCL	10YR5/2				-	54	54	n	n	IV	3b	3b	WE
		30	55	C	2.5Y5/3	och	cf	10	poor	27	30	y	y				
		55	120	C	10Y5/1	och	mfd		poor	46	20	y	y				
									Total	126	103						
									MD	20	6						
									Droughtiness grade(DR)	2	2						
88	T	0	30	hCL	10YR5/2			2	-	53	53	n	n	IV	3b	3b	WE
		30	60	C	2.5Y5/3	och	mff	2	poor	32	38	y	y				
		60	90	SCL	10YR5/4	och	cf	20		24	12	n	n				
		<u>90</u>	120	SCL	10YR5.4	och	cf	20		24	0	n	n				
									Total	134	103						
									MD	28	6						
									Droughtiness grade(DR)	2	2						

89	T	0	33	hCL	10YR5/2				-	59	59	n	n	IV	3b	3b	WE
		33	68	C	2.5Y6/3	och	cfđ		poor	35	46	y	y				
		68	120	C	10Y5/1	och	cfđ		poor	36	3	y	y				
		Total									130	108					
MD									24	11							
Droughtiness grade(DR)									2	1							
90	T	0	28	hCL	10YR5/2				-	50	50	n	n	//	3a	3a	WE
		28	80	SCL	2.5Y5/3	och	cfđ	10		57	57	y	n				
		80	90	SCL	2.5Y5/2			20		8	0	n	n				
		90	120	C	10Y5/1	och	cfđ		poor	21	0	y	y				
Total									137	108							
MD									31	11							
Droughtiness grade(DR)									1	1							
91	T	0	36	hCL	10YR5/2				-	65	65	n	n	IV	3b	3b	WE
		36	74	C	2.5Y5/3	och	cfđ	5	poor	33	42	y	y				
		74	120	C	10Y5/1	och	cfđ		poor	32	0	y	y				
		Total									130	107					
MD									24	10							
Droughtiness grade(DR)									2	2							
92	T	0	35	hCL	10YR5/2				-	63	63	n	n	IV	3b	3b	WE
		35	65	C	2.5Y5/3	och	cfđ	5	poor	29	37	y	y				
		65	100	SCL	2.5Y5/3	och	cmf	5	poor	27	6	y	y				
		100	120	C	10Y5/1	och	cfđ		poor	14	0	y	y				
Total									132	106							
MD									26	9							
Droughtiness grade(DR)									2	2							
93	T	0	30	hCL	2.5Y4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE
		30	120	C	10YR5/3	och	mmd	2	poor	74	51	y	y				
		30	120	C	10YR5/1	och	mmd	2	poor	127	104	y	y				

														Total	133	104				
														MD	-95	-95				
														Droughtiness grade (DR)		1	2			
94	T	0	33	hCL	2.5Y4/2			2	-	58	58	n	n	///	3b	3b	WE			
		33	65	C	10YR5/3	och	mmd	2	poor	32	41	y	y							
		65	120	C	10YR4/2	och	mmd	2	poor	38	6	y	y							
														Total	128	105				
														MD	-96	-95				
														Droughtiness grade (DR)		1	1			
95	T	0	25	hCL	2.5Y4/2			2	-	44	44	n	n	IV	3b	3b	WE			
		25	45	C	10YR5/3	och	cmd	2	poor	26	26	y	y							
		45	120	C	10YR5/1	och	mmd	2	poor	54	32	y	y							
														Total	124	102				
														MD	-96	-96				
														Droughtiness grade (DR)		1	1			
96	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE			
		30	70	C	10YR5/3	och	mmd	2	poor	39	51	y	y							
		70	120	C	10YR5/1	och	mmd	2	poor	34	0	y	y							
														Total	127	104				
														MD	-96	-96				
														Droughtiness grade (DR)		1	1			
97	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE			
		30	120	C	10YR4/2	och	mmd	2	poor	74	51	y	y							
														Total	127	104				
														MD	-96	-96				
														Droughtiness grade (DR)		1	1			
98	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE			
		30	50	C	10YR5/3	och	mmd	2	poor	26	26	y	y							
		50	120	C	10YR5/1	och	mmd	2	poor	48	26	y	y							

														Total	127	104					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
99	T	0	30	hCL	10YR4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE				
		30	55	C	10YR5/2	och	mmd	2	poor	29	32	y	y								
		55	120	C	10YR5/1	och	mmd	2	poor	45	19	y	y								
														Total	127	104					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
100	T	0	30	hCL	10YR4/2			2	-	53	53	n	n	IV	3b	3b	WE				
		30	120	C	10YR5/1	och	cmd	2	poor	74	51	y	y								
														Total	127	104					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
101	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE				
		30	50	C	10YR5/3	och	mmd	2	poor	26	26	y	y								
		50	120	C	10YR5/1	och	mmd	2	poor	48	26	y	y								
														Total	127	104					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
102	T	0	35	hCL	2.5Y4/2			2	-	62	62	n	n	III	3b	3b	WE				
		35	120	C	10YR5/3	och	mmd	2	poor	67	45	y	y								
														Total	129	106					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
103	T	0	30	C	2.5Y4/2	och	mmd	2	-	50	50	n	n	IV	3b	3b	WE				
		30	120	C	10YR5/2	och	cmd	2	poor	74	51	y	y								
														Total	124	101					
														MD	-96	-96					

													Droughtiness grade (DR)		1	1				
104	T	0	20	C	2.5Y4/2	och	mmd	2	-	33	33	n	n	IV	3b	3b	WE			
		20	120	C	10YR5/2	och	cmd	2	poor	86	64	y	y							
										Total	120	97								
										MD	-96	-96								
													Droughtiness grade (DR)		1	1				
105	T	0	30	hCL	2.5Y4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE			
		30	120	C	10YR5/3	och	mmd	2	poor	74	51	y	y							
										Total	127	104								
										MD	30	7								
													Droughtiness grade (DR)		2	2				
106	T	0	25	hCL	2.5Y4/2	och	fff	2	-	44	44	n	n	IV	3b	3b	WE			
		25	70	C	10YR5/2	och	mmd	2	poor	46	57	y	y							
		70	120	C	10YR5/1	och	mmd	2	poor	34	0	y	y							
										Total	124	102								
													Droughtiness grade (DR)		2	2				
107	T	0	30	hCL	2.5Y4/2	och	mff	2	-	53	53	n	n	IV	3b	3b	WE			
		30	120	C	10YR5/3	och	mmd	2	poor	74	51	y	y							
										Total	127	104								
										MD	27	5								
													Droughtiness grade (DR)		2	2				
108	T	0	30	C	2.5Y4/2	och	mff	2	-	50	50	n	n	IV	3b	3b	WE			
		30	65	C	10YR5/3	och	cmd	2	poor	36	45	y	y							
		65	120	C	10YR5/1	och	cmd	2	poor	38	6	y	y							
										Total	124	101								
										MD	-95	-95								
													Droughtiness grade (DR)		1	1				
109	T	0	30	C	2.5Y4/2			2	-	50	50	n	n	IV	3b	3b	WE			
		30	120	C	10YR5/2	och	mmd	2	poor	74	51	y	y							

														Total	124	101					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
110	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE				
		30	120	SC	10YR5/3	och	mmd	2	poor	80	51	y	y								
														Total	133	104					
														MD	-96	-96					
														Droughtiness grade (DR)		1	1				
111	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE				
		30	50	C	10YR5/3	och	cmd	2	poor	26	26	y	y								
		50	120	C	5Y5/1	och	cmd	2	poor	48	26	y	y								
														Total	127	104					
														MD	30	7					
														Droughtiness grade (DR)		2	2				
112	T	0	30	hCL	2.5Y4/2	och	mmd	2	-	53	53	y	n	III	3b	3b	WE				
		30	50	C	10YR5/3	och	cmd	2		26	26	y	n								
		50	120	C	5Y5/1	och	cmp	2	poor	48	26	y	y								
														Total	127	104					
														MD	30	7					
														Droughtiness grade (DR)		2	2				
113	T	0	30	mCL	2.5Y4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE				
		30	50	C	10YR5/3	och	mmd	2	poor	26	26	y	y								
		50	120	C	5Y5/1	och	mmp	2	poor	48	26	y	y								
														Total	127	104					
														MD	30	7					
														Droughtiness grade (DR)		2	2				
114	T	0	33	mCL	2.5Y4/2	och	fff	2	-	58	58	n	n	IV	3b	3b	WE				
		33	50	C	10YR5/3	och	cmp	2	poor	22	22	y	y								
		50	120	C	5Y5/1	och	cmp	2	poor	48	26	y	y								

										Total	128	105					
										MD	31	8					
										Droughtiness grade (DR)		2	2				
115	T	0	25	hCL	2.5Y4/2	och	fff	2	-	44	44	n	n	IV	3b	3b	WE
		25	45	C	10YR5/3	och	cmp	2	poor	26	26	y	y				
		45	120	C	5Y5/1	och	cmp	2	poor	54	32	y	y				
										Total	124	102					
										MD	27	5					
										Droughtiness grade (DR)		2	2				
116	T	0	30	hCL	2.5Y4/2	och	fff	2	-	53	53	n	n	IV	3b	3b	WE
		30	60	C	10YR5/3	och	cmp	2	poor	32	38	y	y				
		60	120	C	5Y5/1	och	cmp	2	poor	41	13	y	y				
										Total	127	104					
										MD	30	7					
										Droughtiness grade (DR)		2	2				
117	T	0	35	C	2.5Y4/2	och	mmd	2	-	58	58	n	n	IV	3b	3b	WE
		35	50	C	10YR5/3	och	cmd	2	poor	19	19	y	y				
		50	120	C	5Y5/1	och	mcp	2	poor	48	26	y	y				
										Total	126	103					
										MD	29	6					
										Droughtiness grade (DR)		2	2				
118	T	0	20	hCL	2.5Y4/2	och	mmd	2	-	35	35	n	n	IV	3b	3b	WE
		20	50	C	10YR5/3	och	cmd	2	poor	38	38	y	y				
		50	120	C	5Y5/1	och	mcp	2	poor	48	26	y	y				
										Total	122	99					
										MD	25	2					
										Droughtiness grade (DR)		2	2				
119	T	0	30	hCL	2.5Y4/2	och	mmd	2	-	53	53	n	n	IV	3b	3b	WE
		30	90	C	10YR5/3	och	cmd	2	poor	53	51	y	y				

		90	120	C	5Y5/1	och	mcp	2	poor	21	0	y	y				
									Total	127	104						
									MD	30	7						
									Droughtiness grade (DR)	2	2						
120	T	0	30	hCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE
		30	70	C	10YR5/3	och	mmd	2	poor	53	51	y	y				
		70	120	C	10YR5/4	och	mmd	2	poor	21	0	y	y				
									Total	127	104						
									MD	30	7						
									Droughtiness grade (DR)	2	2						
121	T	0	30	mCL	2.5Y4/2			2	-	53	53	n	n	IV	3b	3b	WE
		30	50	C	10YR5/3	och	mmd	2	poor	26	26	y	y				
		50	120	C	5Y5/1	och	mmd	2	poor	48	26	y	y				
									Total	127	104						
									MD	30	7						
									Droughtiness grade (DR)	2	2						
122	T	0	25	hCL	2.5Y4/2			2	-	44	44	n	n	IV	3b	3b	WE
		25	45	C	10YR5/3	och	cmd	2	poor	26	26	y	y				
		45	120	C	5Y5/1	och	cmd	2	poor	54	32	y	y				
									Total	124	102						
									MD	27	5						
									Droughtiness grade (DR)	2	2						
123	T	0	28	mZCL	10YR4/2				-	53	53	n	n	IV	3b	3b	WE
		28	70	C	2.5Y5/3	och	cff		poor	43	55	y	y				
		70	120	C	10Y5/1	och	cfđ		poor	35	0	y	y				
									Total	131	108						
									MD	25	11						
									Droughtiness grade(DR)	2	1						
124	T	0	30	mZCL	10YR4/2				-	57	57	n	n	IV	3b	3b	WE

		30	60	C	2.5Y5/2	och	cff		poor	33	39	y	y				
		60	120	C	10Y5/1	och	cf		poor	42	13	y	y				
									Total	132	109						
									MD	26	12						
									Droughtiness grade(DR)	2	1						
125/P2	T	0	30	mCL	10YR4/2			2	-	53	53	n	n	///	3a	3a	WE
		30	45	C	2.5Y5/3	och	cf			24	24	y	n				
		45	60	C	2.5Y5/3	och	cmd		poor	14	20	y	y				
		60	120	C	10Y5/1	och	mf-mf		poor	42	13	y	y				
									Total	132	109						
									MD	26	12						
									Droughtiness grade(DR)	2	1						
126	T	0	30	hCL	10YR4/2			1	-	53	53	n	n	IV	3b	3b	WE
		30	64	C	2.5Y5/3	och	cf		poor	36	44	y	y				
		64	120	C	10Y5/1	och	cf		poor	39	8	y	y				
									Total	128	105						
									MD	22	8						
									Droughtiness grade(DR)	2	2						
127	T	0	40	C	10YR5/2			1	-	67	67	n	n	//	3b	3b	WE
		40	60	C	10YR5/3	och	cf			24	32	y	n				
		60	65	C	2.5Y5/3	och	cf	20	poor	3	5	y	y				
		65	120	C	2.5Y5/3	och	cf	20	poor	31	5	y	y				
									Total	126	110						
									MD	20	13						
									Droughtiness grade(DR)	2	1						
128	T	0	25	hCL	10YR4/2			1	-	45	45	n	n	IV	3b	3b	WE
		25	50	C	2.5Y5/3	och	cf		poor	33	33	y	y				
		50	120	C	10Y5/1	och	cf		poor	49	26	y	y				
									Total	126	103						

								MD	20	6						
								Droughtiness grade(DR)	2	2						
129	T	0	30	hCL	10YR4/2		1	-	53	53	n	n	IV	3b	3b	WE
		30	50	C	2.5Y5/3	och	mfp	poor	26	26	y	y				
		50	70	C	10Y5/1	och	cfp	poor	14	26	y	y				
		<u>70</u>	120	C	10Y5/1	och	cfp	poor	35	0	y	y				
								Total	128	105						
								MD	22	8						
								Droughtiness grade(DR)	2	2						
130	T	0	30	hCL	10YR4/2		1	-	53	53	n	n	//	3a	3a	WE
		30	70	C	2.5Y5/3	och	cfp		48	64	y	n				
		70	120	C	2.5Y5/3	och	cfp	poor	35	0	y	y				
								Total	136	117						
								MD	30	20						
								Droughtiness grade(DR)	1	1						
131	T	0	30	hCL	10YR4/2		1	-	53	53	n	n	IV	3b	3b	WE
		30	60	C	2.5Y5/3	och	cfp	poor	33	39	y	y				
		60	120	C	10Y5/1	och	cfp	poor	42	13	y	y				
								Total	128	105						
								MD	22	8						
								Droughtiness grade(DR)	2	2						
132	T	0	30	hCL	10YR4/2		1	-	53	53	n	n	IV	3b	3b	WE
		30	55	C	2.5Y5/3	och	cfp	poor	30	33	y	y				
		55	120	C	10Y5/1	och	mfp	poor	46	20	y	y				
								Total	128	105						
								MD	22	8						
								Droughtiness grade(DR)	2	2						
133	T	0	30	hCL	10YR4/2		1	-	53	53	n	n	IV	3b	3b	WE
		30	60	C	2.5Y5/3	och	cfp	poor	33	39	y	y				

		60	90	C	10Y5/1	och	mfd		poor	21	13	y	y				
		90	120	C	10Y4/1	och	cf		poor	21	0	y	y				
									Total	128	105						
									MD	22	8						
									Droughtiness grade(DR)	2	2						
134	T	0	30	hCL	10YR4/2				-	54	54	n	n	IV	3b	3b	WE
		30	70	C	2.5Y5/3	och	cf		poor	40	52	y	y				
		70	120	C	2.5Y5/2	och	mfp		poor	35	0	y	y				
									Total	129	106						
									MD	23	9						
									Droughtiness grade(DR)	2	2						
135	T	0	30	C	10YR4/2				-	51	51	n	n	IV	3b	3b	WE
		30	80	C	2.5Y5/3	och	cf		poor	47	52	y	y				
		80	120	C	2.5Y5/2	och	mfd		poor	28	0	y	y				
									Total	126	103						
									MD	20	6						
									Droughtiness grade(DR)	2	2						
136	T	0	30	C	10YR4/2				-	51	51	n	n	IV	3b	3b	WE
		30	50	C	2.5Y5/3	och	cf		poor	26	26	y	y				
		50	60	C	2.5Y5/3	och	cf			8	16	y	n				
		60	120	C	10Y4/1	och	fmd		poor	42	13	y	y				
									Total	127	106						
									MD	21	9						
									Droughtiness grade(DR)	2	2						
137	T	0	30	C	10YR4/2				-	51	51	n	n	IV	3b	3b	WE
		30	60	C	2.5Y5/3	och	cf		poor	33	39	y	y				
		60	120	C	10YR5/4	och	cf	10		44	15	n	n				
									Total	128	105						
									MD	22	8						

														Droughtiness grade(DR)		2	2				
138	T	0	30	mCL	10YR5/3			2	-	53	53	n	n	IV	3b	3b	WE				
		30	80	C	2.5Y5/3	och	cff	10	poor	43	47	y	y								
		<u>80</u>	120	C	10YR5/4	och	cff	20		26	0	y	y								
										Total	122	100									
										MD	16	3									
														Droughtiness grade(DR)		2	2				
139	T	0	30	mCL	10YR5/3			2	-	53	53	n	n	//	2	2	WE DR				
		30	60	C	10YR5/3	och	fff	10		36	44	n	n								
		60	80	C	2.5Y5/3	och	cfđ			16	16	y	n								
		80	120	C	10YR5/1	och	cff		poor	28	0	y	y								
										Total	133	112									
										MD	27	15									
														Droughtiness grade(DR)		2	1				
140	T	0	30	mCL	10YR5/3			2	-	53	53	n	n	IV	3b	3b	WE				
		30	60	C	2.5Y5/3	och	cff	10	poor	30	35	y	y								
		60	90	C	10Y5/1	och	cff		poor	21	13	y	y								
		<u>90</u>	120	C	10Y5/1	och	cff		poor	21	0	y	y								
										Total	125	101									
										MD	19	4									
														Droughtiness grade(DR)		2	2				
141	T	0	30	mCL	10YR5/3			2	-	53	53	n	n	IV	3b	3b	WE				
		30	60	C	2.5Y5/3	och	cfp	5	poor	31	37	y	y								
		60	90	C	10YR5/1	och	cfp		poor	21	13	y	y								
		<u>90</u>	120	C	10YR5/1	och	cfp		poor	21	0	y	y								
										Total	126	103									
										MD	20	6									
														Droughtiness grade(DR)		2	2				
142	T	0	35	mCL	10YR4/2			2	-	62	62	n	n	//	2	2	WE				

		35	55	mCL	10YR4/3			10		26	29	n	n				
		55	80	C	2.5Y5/2	och	cf		poor	18	20	y	y				
		80	120	C	10YR5/1	och	mff		poor	28	0	y	y				
									Total	134	110						
									MD	28	13						
									Droughtiness grade(DR)	2	1						
143	T	0	30	SCL	10YR4/3			2	-	50	50	n	n	/	1	2	DR
		30	60	SL	7.5YR5/3	och	mmd	2		40	44	y	n				
		60	120	cS	7.5YR5/3	och	mmd	2	poor	24	5	y	n				
									Total	114	99						
									MD	8	2						
									Droughtiness grade(DR)	2	2						
144	T	0	34	SL	10YR4/2			1	-	57	57	n	n	/	1	2	DR
		34	120	LmS	10YR5/4	och	cf	1		56	32	n	n				
									Total	113	89						
									MD	7	-8						
									Droughtiness grade(DR)	2	2						
145	T	0	28	LmS	10YR4/2			1	-	36	36	n	n	/	1	3a	DR
		28	50	LmS	10YR4/3			1		20	20	n	n				
		50	120	LmS	10YR4/3			1		42	18	n	n				
									Total	97	74						
									MD	-9	-23						
									Droughtiness grade(DR)	3a	3a						
146	T	0	30	LmS	10YR4/2			1	-	39	39	n	n	/	1	3a	DR
		30	35	LmS	10YR4/3			1		4	4	n	n				
		35	120	LmS	10YR4/3			1		55	31	n	n				
									Total	98	74						
									MD	-8	-23						
									Droughtiness grade(DR)	3a	3a						

147	T	0	30	SL	10YR4/3	1	-	51	51	n	n	/	1	3a	DR
		30	70	LmS	10YR4/4	1		30	36	n	n				
		<u>70</u>	120	LmS	10YR4/4	1		30	0	n	n				
							Total	110	86						
							MD	4	-11						
							Droughtiness grade(DR)	3a	3a						
148	T	0	25	SL	10YR4/3	1	-	42	42	n	n	/	1	3a	DR
		25	35	LmS	10YR4/4	1		9	9	n	n				
		<u>35</u>	120	LmS	10YR4/4	1		55	31	n	n				
							Total	106	82						
							MD	0	-15						
							Droughtiness grade(DR)	3a	3a						
149	T	0	30	SL	10YR4/3	1	-	51	51	n	n	/	1	3a	DR
		30	60	LmS	10YR4/4	5		23	26	n	n				
		60	75	LmS	10YR5/4	1		9	9	n	n				
		<u>75</u>	120	LmS	10YR5/4	1		27	0	n	n				
							Total	109	85						
							MD	3	-12						
							Droughtiness grade(DR)	3a	3a						
150	T	0	25	SL	10YR4/3	1	-	42	42	n	n	/	1	2	DR
		25	75	SL	10YR5/4	5		62	64	n	n				
		<u>75</u>	120	SL	10YR5/4	1		49	0	n	n				
							Total	153	106						
							MD	47	9						
							Droughtiness grade(DR)	1	2						
151	T	0	30	SL	10YR4/3	1	-	51	51	n	n	/	1	1	
		30	90	SL	10YR5/4	5		71	57	n	n				
		<u>90</u>	120	SL	10YR5/4	1		33	0	n	n				
							Total	154	108						

								MD	48	11						
								Droughtiness grade(DR)	1	1						
152	T	0	10	SL	10YR4/3		1	-	17	17	n	n	/	1	2	DR
	T	<u>10</u>	25	SL	10YR5/4		5		24	24	n	n				
		25	120	SL	10YR5/4		5		109	64	n	n				
								Total	150	105						
								MD	44	8						
								Droughtiness grade(DR)	1	2						
153	T	0	30	LS	10YR4/2		5	-	37	37	n	n	/	1	3a	DR
		30	35	LS	10YR4/4		5		4	4	n	n				
		<u>35</u>	120	LS	10YR4/4		5		53	30	n	n				
								Total	94	72						
								MD	-12	-25						
								Droughtiness grade(DR)	3a	3a						
154	T	0	20	LS	10YR4/3		1	-	26	26	n	n	/	1	3a	DR
	T	<u>20</u>	30	LS	10YR4/4		1		13	13	n	n				
		30	120	LS	10YR4/4		1		59	36	n	n				
								Total	98	74						
								MD	-8	-23						
								Droughtiness grade(DR)	3a	3a						
155	T	0	30	LS	10YR4/2		5	-	37	37	n	n	/	1	3a	DR
		30	58	LS	10YR4/4		5		22	24	n	n				
		<u>58</u>	120	LS	10YR4/4		5		35	10	n	n				
								Total	94	72						
								MD	-12	-25						
								Droughtiness grade(DR)	3a	3a						
156	T	0	28	hZCL	10YR4/2		2	-	52	52	n	n	///	3b	3b	WE
		28	64	C	10YR5/3	och	cmd	1	46	57	y	n				
		64	120	C	10Y5/1	och	cmd	1	poor	39	8	y	y			

														Total	137	117					
														MD	31	20					
														Droughtiness grade(DR)		1	1				
157	T	0	25	C	10YR4/3			2	-	42	42	n	n	///	3b	3b	WE				
		25	40	C	10YR5/3	och	cf	1		24	24	y	n								
		<u>40</u>	64	C	10YR5/3	och	cf	1		27	38	y	n								
		64	120	C	10Y5/1	och	cmd	1	poor	39	8	y	y								
														Total	131	111					
														MD	25	14					
														Droughtiness grade(DR)		2	1				
158	T	0	25	C	10YR4/3			2	-	42	42	n	n	///	3b	3b	WE FL				
		25	45	C	10YR5/3	och	cf	1		32	32	y	n								
		<u>45</u>	64	C	10YR5/3	och	cf	1		19	30	y	n								
		64	120	C	10Y5/1	och	cmd	1	poor	39	8	y	y								
														Total	131	111					
														MD	25	14					
														Droughtiness grade(DR)		2	1				
159	T	0	25	hCL	10YR4/3			2	-	44	44	n	n	///	3b	3b	WE FL				
		25	75	C	10YR5/3	och	cf	1	poor	50	58	y	y								
		75	120	C	10Y5/1	och	mfp	1	poor	31	0	y	y								
														Total	125	102					
														MD	19	5					
														Droughtiness grade(DR)		2	2				
160	T	0	25	C	10YR5/3			2	-	42	42	n	n	//	3b	3b	WE				
		25	50	C	10YR5/3	och	cf	1		40	40	y	n								
		<u>50</u>	120	C	10YR5/3	och	cf	1		55	32	y	n								
														Total	137	113					
														MD	31	16					
														Droughtiness grade(DR)		1	1				

161	T	0	20	C	10YR5/3			2	-	33	33	n	n	//	3b	3b	WE
		<u>20</u>	50	C	10YR5/3	och	cf	1		48	48	y	n				
		50	120	C	10YR5/3	och	cf	1		55	32	y	n				
											Total	136	113				
									MD	30	16						
									Droughtiness grade(DR)	1	1						
162	T	0	25	hCL	10YR4/3			1	-	45	45	n	n	IV	3b	3b	WE
		25	50	SCL	2.5Y5/3	och	cf	1	poor	32	32	y	y				
		50	120	SL	10YR5/2	och	cf	1		76	30	y	n				
											Total	153	106				
									MD	47	9						
									Droughtiness grade(DR)	1	2						
163	T	0	25	mCL	10YR4/2			1	-	45	45	n	n	//	2	3b	FL
		25	70	SCL	10YR5/4	och	cf	1		57	67	n	n				
		70	90	SCL	10YR5/2	och	cf	1	poor	16	0	y	y				
		90	120	SL	10YR5/2	och	cf	40		20	0	y	n				
									Total	138	111						
									MD	32	14						
									Droughtiness grade(DR)	1	1						
164	T	0	25	C	10YR4/2			1	-	42	42	n	n	IV	3b	3b	WE FL
		25	60	C	10YR5/3	och	cf	1	poor	39	45	y	y				
		<u>60</u>	120	C	10YR5/3	och	cf	1	poor	42	13	y	y				
									Total	123	100						
									MD	17	3						
									Droughtiness grade(DR)	2	2						
165	T	0	10	hCL	10YR4/3			1	-	18	18	n	n	IV	3b	3b	WE
		<u>10</u>	25	hCL	10YR4/3			1		27	27	n	n				
		25	50	SCL	2.5Y5/3	och	cf	1	poor	32	32	y	y				

		50	120	SCL	2.5Y5/3	och	cff	1	poor	55	26	y	y				
									Total	132	103						
									MD	26	6						
									Droughtiness grade(DR)	2	2						
166	T	0	10	hCL	10YR4/3			1	-	18	18	n	n	IV	3b	3b	WE FL
	T	10	25	hCL	10YR4/3			1		27	27	n	n				
		25	50	SCL	2.5Y5/3	och	cff	1	poor	32	32	y	y				
		50	120	SCL	2.5Y5/3	och	cff	1	poor	55	26	y	y				
									Total	132	103						
									MD	26	6						
									Droughtiness grade(DR)	2	2						
167	T	0	15	hCL	10YR4/3			1	-	27	18	n	n	IV	3b	3b	WE FL
	T	15	25	hCL	10YR4/3			1		18	27	n	n				
		25	50	SCL	2.5Y5/3	och	cff	1	poor	32	32	y	y				
		50	120	SCL	2.5Y5/3	och	cff	1	poor	55	26	y	y				
									Total	132	103						
									MD	26	6						
									Droughtiness grade(DR)	2	2						
168	T	0	30	C	10YR5/3			1	-	51	51	n	n	IV	3b	3b	WE FL
		30	120	C	2.5Y5/3	och	cfD	1	poor	74	52	y	y				
									Total	125	102						
									MD	19	5						
									Droughtiness grade(DR)	2	2						
169	T	0	30	C	10YR5/3			1	-	51	51	n	n	IV	3b	3b	WE
		30	120	C	2.5Y5/3	och	cfD	1	poor	74	52	y	y				
									Total	125	102						
									MD	19	5						
									Droughtiness grade(DR)	2	2						

170	T	0	25	C	10YR5/3			1	-	42	42	n	n	IV	3b	3b	WE
		<u>25</u>	120	C	2.5Y5/3	och	cf	1	poor	81	58	y	y				
										Total	123	100					
										MD	17	3					
										Droughtiness grade(DR)	2	2					
171	T	0	20	hZCL	10YR4/2			2	-	37	37	n	n	III	3b	3b	WE
		20	45	C	10YR5/3	och	cf	1		40	40	y	n				
		45	120	C	10Y5/1	och	cmd	1	poor	55	32	y	y				
										Total	132	109					
										MD	26	12					
										Droughtiness grade(DR)	2	1					