Norwich Western Link

Environmental Statement

Chapter 13: Geology and Soils

Appendix 13.4: Agricultural Land Classification and Soil Resources, Reading Agricultural

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Contents

1 Introduction

1.1.1 Reading Agricultural Consultants Ltd (RAC) was instructed by WSP to investigate the Agricultural Land Classification (ALC) and soil resources of land within the Norwich Western Link scheme by means of a detailed survey of site and soil characteristics.

1.1.2 Guidance for assessing the quality of agricultural land in England and Wales is set out in the Ministry of Agriculture, Fisheries and Food (MAFF) revised guidelines and criteria for grading the quality of agricultural land1 and summarised in Natural England's Technical Information Note (TIN) 0492.

1.1.3 We have included a summary of key information shown in this document in an accessible format in section 1.1.1. However, some users may not be able to access all technical details that are included in the rest of this document. If you require this document in a more accessible format, please contact norwichwesternlink@norfolk.gov.uk

READING AGRICULTURAL CONSULTANTS

January 2023

WSP

Norwich Western Link: Agricultural Land Classification and Soil Resources

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Contents

1. Introduction

1.1. Reading Agricultural Consultants Ltd (RAC) is instructed by WSP to investigate the Agricultural Land Classification (ALC) and soil resources of land within the Norwich Western Link scheme by means of a detailed survey of site and soil characteristics.

1.2. Guidance for assessing the quality of agricultural land in England and Wales is set out in the Ministry of Agriculture, Fisheries and Food (MAFF) revised guidelines and criteria for grading the quality of agricultural land[1], and summarised in Natural England's Technical Information Note (TIN) 049[2].

1.3. Agricultural land in England and Wales is graded between 1 and 5, depending on the extent to which physical or chemical characteristics impose long-term limitations on agricultural use. The principal physical factors influencing grading are climate, site conditions and soil which, together with interactions between them, form the basis for classifying land into one of the five grades.

1.4. Grade 1 land is excellent quality agricultural land with very minor or no limitations to agricultural use. Grade 2 is very good quality agricultural land, with minor limitations which affect crop yield, cultivations or harvesting. Grade 3 land has moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield, and is subdivided into Subgrade 3a (good quality land) and Subgrade 3b (moderate quality land). Grade 4 land is poor quality agricultural land with severe limitations which significantly restrict the range of crops and/or level of yields. Grade 5 is very poor quality land, with severe limitations which restrict use to permanent pasture or rough grazing.

1.5. Land which is classified as Grades 1, 2 and 3a is defined as the best and most versatile (BMV) agricultural land.

1.6. As explained in Natural England's TIN049, the whole of England and Wales was mapped from reconnaissance field surveys in the late 1960s and early 1970s, to provide general strategic guidance on agricultural land quality for planners. This Provisional Series of maps was published

[1] **MAFF (1988).** *Agricultural Land Classification of England and Wales. Revised guidelines and criteria for grading the quality of agricultural land*. MAFF Publications.

[2] **Natural England (2012).** *Technical Information Note 049 - Agricultural Land Classification: protecting the best and most versatile agricultural land*, Second Edition.

on an Ordnance Survey base at a scale of One Inch to One Mile (1:63,360). The Provisional ALC map shows the land within the scheme as predominantly undifferentiated Grade 3, with some Grade 2 land in the south-west and Grade 4 associated with the River Wensum floodplain. However, TIN049 explains that:

> *"These maps are not sufficiently accurate for use in assessment of individual fields or development sites, and should not be used other than as general guidance. They show only five grades: their preparation preceded the subdivision of Grade 3 and the refinement of criteria, which occurred after 1976. They have not been updated and are out of print. A 1:250 000 scale map series based on the same information is available. These are more appropriate for the strategic use originally intended …"*

1.7. TIN049 goes on to explain that a definitive ALC grading should be obtained by undertaking a detailed survey according to the published guidelines, at an observation density of one boring per hectare. This survey has been undertaken in accordance with the established ALC guidelines.

2. Site and climatic conditions

General features, land form and drainage

2.1. The scheme extends to approximately 160.8ha. Agricultural land within the scheme is predominantly in arable use, with a few smaller areas in permanent grassland. The scheme is generally orientated south-west to north-east and connects Wood Lane (B1535) in the south-west with the Fakenham Road/Broadland Northway (A1270) roundabout in the north-east. Non-agricultural land within the scheme boundary include sections of The Broadway, Breck Road, Western Road, Ringland Lane, Fakenham Road and the Fakenham Road/Broadland Northway roundabout, as well as its associated drainage features, as well as areas of woodland and the River Wensum.

2.2. Topography across the southern and central part of the scheme is typically gently undulating with elevations of between 22m and 58m above Ordnance Datum (AOD). Land in the north slopes gently from the north and south towards the River Wensum. Land within the River Wensum floodplain lies at approximately 8m-9m AOD. There are no gradient restrictions to agricultural land quality within the scheme boundary.

2.3. Agricultural land within the scheme drains primarily drains through the soil profile, with the River Wensum draining land within its local catchment.

Agro-climatic conditions

2.4. Agro-climatic data for four locations within the scheme boundaries have been interpolated from the Meteorological Office's standard 5km grid point dataset and are given in Table 1. The climate is moderately cool and moderately dry. Crop moisture deficits are large. The number of Field Capacity Days (FCD) is smaller than is average for lowland England (150) and is favourable for providing opportunities for agricultural field work.

Table 1: Local agro-climatic conditions

Parameter	Value			
Grid Reference	TG 099 127 (South)	TG 110138 (South central)	TG 122 147 (North central)	TG 142 156 (North)
Elevation	52m	57m	35m	29m
Average Annual Rainfall	635mm	635mm	623mm	631mm
Accumulated Temperatures >0°C	1364 day°	1364 day°	1391 day°	1395 day°
Field Capacity Days	123 days	123 days	121 days	122 days
Average Moisture Deficit, wheat	117mm	117mm	119mm	117mm
Average Moisture Deficit, potatoes	111m	111mm	114mm	113mm

Soil parent material and soil type

2.5. The underlying geology mapped by the British Geological Survey[3] is undifferentiated chalk. Formations include the Lewes Nodular Chalk Formation, the Seaford Chalk Formation, the Newhaven Chalk Formation, the Culver Chalk Formation and the Portsdown Chalk Formation. These formations generally comprise chalk of varying hardness with varied seams of flint and marl.

2.6. Superficial deposits mapped within the scheme boundaries include:

- the Sheringham Cliffs Formation across most of the scheme, comprising sand and gravel;
- alluvium within the River Wensum floodplain, comprising clay, silt, sand and gravel;
- river terrace deposits north of the River Wensum, comprising sand and gravel; and

[3] **British Geological Survey (2023).** *Geology of Britain viewer*, http://mapapps.bgs.ac.uk/geologyofbritain/home.html

- the Lowestoft Formation in the south-west, comprising chalky till, together with outwash sands and gravels, silts and clays.

2.7. Two small areas within the scheme boundaries between Ringland Lane and the River Wensum have no superficial deposits mapped.

2.8. The Soil Survey of England and Wales soil association mapping[4] (1:250,000 scale) shows the Newport 4, the Burlingham 1 and the Adventurers' 2 associations within the scheme boundaries.

2.9. Soils of the Newport 4 association are mapped across most of the scheme. This association is characterised by deep, sandy soils. Profiles are typically well drained and assessed as Wetness Class (WC) I[5].

2.10. The Burlingham 1 association is mapped across an area in the south-west. Soils are characterised by deep, coarse and fine loamy soils with slowly permeable subsoils and slight seasonal waterlogging. The association also includes some deep, well drained, coarse loamy and sandy soils. Profiles are typically assessed as WC II-III, although soils can be improved to WCI-II through drainage. Some component soil series are naturally well drained, and assessed as WC I.

2.11. The Adventurers' 2 association is mapped within the floodplain of the River Wensum. This association is characterised by deep, peat soils over variable subsoils, usually sandy and sometimes gravelly. Profiles are typically well drained, and assessed as WC I where groundwater is adequately controlled.

[4] **Soil Survey of England and Wales (1984).** *Soils of Eastern England* (1:250,000), Sheet 6.

[5] **Hodge et al (1984).** *Soils and Their Use in Eastern England*. Soil Survey of England and Wales Bulletin 13, Harpenden.

3. Agricultural land quality

Soil survey methods

3.1. In total, 130 soil profiles were examined within the scheme boundaries using an Edelman (Dutch) auger at an observation density of approximately one per hectare in accordance with the established recommendations for ALC surveys[2]. Land within the River Wensum floodplain has been surveyed at a higher density as part of a soil resource survey investigating peat reserves in the area. Further details of this survey can be found in the report '*Norwich Western Link: River Wensum Floodplain Soil Resource Survey report*', prepared by RAC in January 2023.

3.2. All agricultural land within the scheme boundaries has been surveyed with the exception of an area to the south of the River Wensum floodplain which was being used for rearing pigs at the time of survey, which restricted access.

3.3. Eight observation pits were excavated to examine subsoil structures, including Pits 7 and 8 where observations were made within open archaeological trenches. The locations of observations are shown on Figure RAC/9430/1. At each observation point the following characteristics were assessed for each soil horizon up to a maximum of 120cm or any impenetrable layer:

- soil texture;
- significant stoniness;
- colour (including localised mottling);
- consistency;
- structural condition;
- free carbonate; and
- depth.

3.4. Four topsoil samples were submitted for laboratory determination of particle size distribution, pH, organic matter content and nutrient contents (P, K, Mg). Results are presented in Appendix 1.

3.5. Soil WC was determined from the matrix colour, presence or absence of, and depth to, greyish and ochreous gley mottling, and slowly permeable subsoil layers at least 15cm thick, in relation to the number of Field Capacity Days at the location.

3.6. Soil droughtiness was investigated by the calculation of moisture balance equations (given in Appendix 2). Crop-adjusted Available Profile Water (AP) is estimated from texture, stoniness and depth, and then compared to a calculated moisture deficit (MD) for the standard crops wheat and potatoes. The MD is a function of potential evapotranspiration and rainfall. Grading of the land can be affected if the AP is insufficient to balance the MD and droughtiness occurs.

Agricultural land classification and site limitations

3.7. Assessment of land quality has been carried out according to the revised ALC guidelines[1]. Soil profiles have been described according to Hodgson[6] which is the recognised source for describing soil profiles and characteristics according to the revised ALC guidelines.

3.8. Agricultural land quality within the scheme is primarily classified as Grade 2, Subgrade 3a and Subgrade 3b. Land within the River Wensum floodplain is restricted to Grade 4. There are three main soil types within the scheme boundary.

Soil Type 1

3.9. The first soil type is the most prevalent. The topsoil comprises dark brown or dark greyish brown (10YR3/3 or 10YR4/2 in the Munsell soil colour charts[7]), loamy sand or sandy loam. Stone content is very slight to moderate, at 5%-25% by volume. The topsoil is friable and has a coarse granular to fine subangular blocky structure.

3.10. The upper subsoil comprises loamy sand or sandy loam. The colour is brown (10YR4/3, 10YR5/3), dark yellowish brown (10YR4/4) or, to a lesser extent, yellowish brown (10YR5/4, 10YR6/4). Stone content is very slight to moderate, at 5%-20%. The upper subsoil is friable and has a coarse granular to fine subangular blocky structure.

3.11. The lower subsoil comprises loamy sand, sandy clay loam, sandy loam or sand. The colour is yellowish brown (10YR5/4, 10YR6/4) or, to a lesser extent, brown (10YR5/3) and light yellowish brown (10YR6/4). Stone content is slight to moderate at 2%-25%. The lower subsoil has a single

[6] **Hodgson, J. M. (Ed.) (1997).** *Soil survey field handbook.* Soil Survey Technical Monograph No. 5, Silsoe.

[7] **Munsell Color (2009).** *Munsell Soil Color Book*. Grand Rapids, MI, USA

grain to coarse granular structure where the texture is sand or loamy sand, and a coarse granular to medium subangular structure where the texture is sandy loam or sandy clay loam.

3.12. Soils with these characteristics are freely draining, and assessed as WC I. Profiles have moderate to large deficits in available water restricting land to Subgrade 3a and 3b from droughtiness.

Soil Type 2

3.13. The second soil type is found in the south-west. The topsoil comprises dark brown or dark greyish brown (10YR3/3 or 10YR4/2), sandy clay loam or sandy loam. Stone content is slight, at 7%-14%. The topsoil has a fine to medium subangular blocky structure and is friable.

3.14. The upper subsoil comprises brown (10YR4/3, 10YR5/3), dark yellowish brown (10YR4/4) or yellowish brown (10YR5/4), sandy clay loam or sandy clay, with a few recordings of clay or sandy loam. Stone content is very slight to slight, at 3%-12%. The upper subsoil mostly has a medium subangular blocky structure and a friable to firm consistency. Sandy and clayey lenses are commonly observed within this horizon.

3.15. The lower subsoil is brown (10YR4/3, 10YR5/3), dark yellowish brown (10YR4/4) or yellowish brown (10YR5/4). This horizon mostly comprises sandy clay with come recordings of clay, sandy clay loam, sandy loam or loamy sand. Stone content is very slight to moderate, at 2%-20%. The lower subsoil mostly has a medium subangular blocky structure and a friable to firm consistency. As observed in the upper subsoil, the lower subsoil commonly contains sandy and clayey lenses. Ferri-manganiferous nodules are often observed within this horizon.

3.16. The lower subsoil at Observations 5 and 11 differs and comprises firm clay which contains common ochreous mottling and ferri-manganiferous nodules. This clay is poorly structured and restricts the downward drainage of water through the soil profile.

3.17. Soils with these characteristics are otherwise freely draining, and assessed as WC I. Profiles are restricted to Grade 2 or Subgrade 3a by droughtiness and have small to moderate deficits in available water throughout the growing season.

3.18. Observations 5 and 11 are assessed as WC II. These profiles are restricted to Grade 2 by soil wetness and to the same extent by droughtiness.

Soil Type 3

3.19. Soils within the River Wensum floodplain comprise a third soil type in terms of ALC. These soils are described within the *Norwich Western Link: River Wensum Floodplain Soil Resource Survey*

report. This report describes two soil types based on the presence or absence of a peaty subsoil horizon.

3.20. Land within this area is restricted to Grade 4 by flood risk. This limitation takes into account the frequency and duration of potential flood events. Soil profiles with a peaty subsoil are also sensitive to disturbance and when managed alongside the potential for flooding are best suited for permanent pasture.

3.21. The ALC distribution within the scheme boundary is shown in Figure RAC/9430/2 and the areas of each grade are given in Table 2.

Table 2: ALC areas

Grade	Description	Area (ha)	% of agricultural land
Grade 2	Very good quality	11.3	8.6
Subgrade 3a	Good quality	18.2	13.9
Subgrade 3b	Moderate quality	95.5	73
Grade 4	Poor quality	5.9	4.5
Total Agricultural		130.9	100
Non-Agricultural		29.9	-

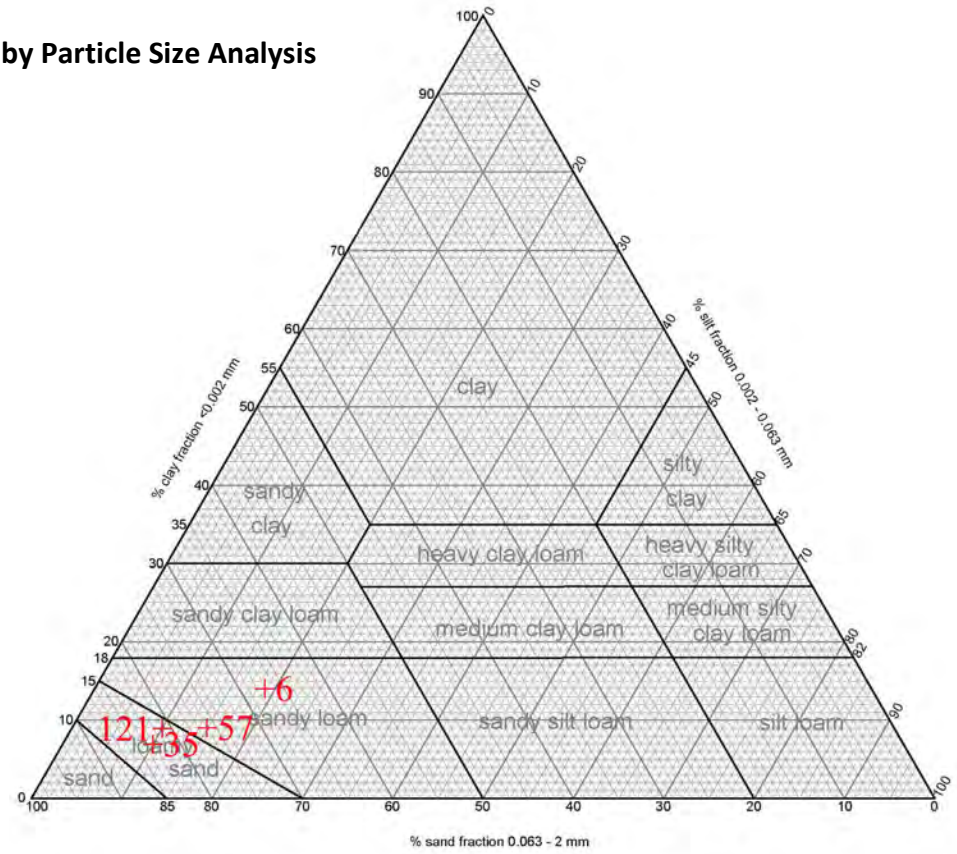
Appendix 1: Laboratory Data

Determinand	6 TS	35/P2 TS	57 TS	121 TS	Units
Sand 2.00-0.063 mm	67	83	76	81	% w/w
Silt 0.063-0.002 mm	19	10	15	10	% w/w
Clay <0.002 mm	14	7	9	9	% w/w
Organic Matter	2.0	1.7	1.7	0.7	% w/w
Texture	Sandy loam	Loamy sand	Sandy loam	Loamy sand	

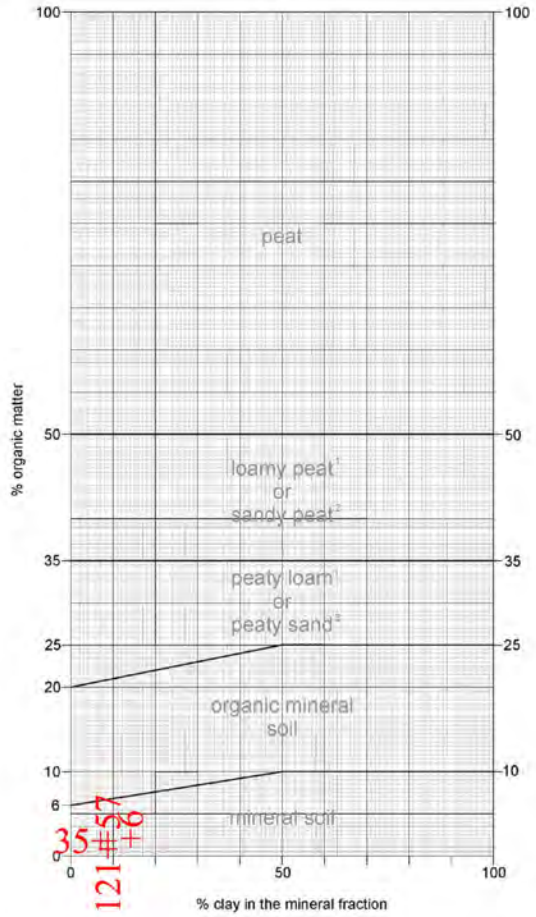
Determinand	6 TS	35/P2 TS	57 TS	121 TS	Units
Soil pH	7.2	8.0	7.9	8.0	
Phosphorus (P)	19.4	57.6	48.4	69.0	Mg/l (av)
Potassium (K)	111	75.3	170	125	Mg/l (av)
Magnesium (Mg)	69.2	31.5	26.3	45.6	Mg/l (av)

Determinand	6 TS	35/P2 TS	57 TS	121 TS	Units
Phosphorus (P)	2	4	4	4	ADAS Index
Potassium (K)	1	1	2-	2-	ADAS Index
Magnesium (Mg)	2	1	1	1	ADAS Index

Soil Texture by Particle Size Analysis



Organic Matter Class



[1] Less than 50% sand in the mineral fraction

[2] 50% sand or more in the mineral fraction

Appendix 2: Soil Profile Summaries and Droughtiness Calculations

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		
%	TAv	EAv
hard	1	0.5
N/A		

Climate Data	
MDwheat	117
MDpotato	111
FCD	123
AAR	635

Wetness Class Guidelines	*II*	*III*	*IV*	*V*
SPL within 80cm, gleying within 40cm	>61cm	<61cm		
SPL within 80cm, gleying at 40-70cm	>40cm	<40cm		
No SPL but gleying within 40cm	coarse subsoil	*I*	other cases	*II*

Climate
1364 D^{o}
Limitation
Grade 1

hard flint & pebble

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	$CaCO_3$	Colour	Mottle colour	abund-ance	stone% hard	stone% N/A	Struct-ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
1	T	0	33	SCL	n	10YR3/3			7			52	52	n	n	*I*	1	**2**	DR
Pit 1		33	58	SCL	n	10YR4/3			10			30	34	n	n				
		58	120	SC	n	10YR5/4	mn	few	5			59	17	n	n				
											Total	**142**	**104**		SC-lenses of sand				
											MB	25	-7						
									Droughtiness grade (DR)			2	2						
2	T	0	29	SCL	n	10YR4/2			14			43	43	n	n	*I*	1	**3a**	DR
		29	70	SC	n	10YR5/4			7			48	57	n	n				
		70	120	SC	n	10YR5/4	mn	few	10			45	0	n	n				
											Total	**136**	**100**		Lenses of SS sand				
											MB	19	-11						
									Droughtiness grade (DR)			2	3a						
3	T	0	30	SCL	n	10YR4/2			12			45	45	n	n	*I*	1	**2**	DR
		30	70	mSL	n	10YR4/3			7			49	56	n	n				
		70	80	LmS	n	10YR5/4			7			6	0	n	n				
		80	120	SC	n	10YR5/4			5			38	0	n	n				

										Total	**138**	**101**		80+ sand and clay					
										MB	21	-10							
									Droughtiness grade (DR)		2	2							
4	T	0	29	SCL	n	10YR3/3			8		46	46	n	n	*I*	1	**2**	DR	
		29	53	SC	n	10YR5/3	mn	few	3		34	35	n	n					
		53	80	SC	Sli	10YR5/3	mn	few	3		26	25	n	n					
		80	120	LmS	n	10YR5/4			10		22	0	n	n					
										Total	**127**	**105**		SC- lenses of sand					
										MB	10	-6							
									Droughtiness grade (DR)		2	2							
5	T	0	30	SCL	n	10YR3/3			8		47	47	n	n	*II*	2	**2**	WE DR	
		30	58	SCL	n	10YR4/4			5		36	40	n	n					
		58	120	C	n	10YR5/3	Femn, gr	com	5	poor	41	15	y	y					
										Total	**125**	**102**		C- few small lenses of sand					
										MB	8	-9							
									Droughtiness grade (DR)		2	2							
6	T	0	34	mSL	n	10YR3/3			10		52	52	n	n	*I*	1	**2**	DR	
		34	65	SC	n	10YR5/3			7		36	43	n	n					
		65	120	SC	n	10YR5/3	mn	few	5		52	7	n	n					
										Total	**141**	**103**		LSS- sand lenses					
										MB	24	-8							
									Droughtiness grade (DR)		2	2							
7	T	0	30	SCL	n	10YR3/3			12		45	45	n	n	*I*	1	**3a**	DR	
		30	60	SC	n	10YR5/4			10		36	41	n	n					
		60	120	SC	n	10YR5/3	mn	few	5		57	14	n	n					
										Total	**139**	**100**							
										MB	22	-11							

									Droughtiness grade (DR)		2	3a							
8	T	0	32	mSL	n	10YR3/3			10		49	49	n	n	*I*	1	**2**	DR	
		32	60	C	n	10YR5/3	mn	few	5		35	43	n	n					
		60	88	SC	n	10YR5/3	mn	com	10		25	14	n	n					
		88	120	SCL	n	10YR5/3	mn	few	10		29	0	n	n					
										Total	**139**	**106**		SC/SCL- sandy/clay lenses					
										MB	22	-5							
									Droughtiness grade (DR)		2	2							
9	T	0	34	mSL	n	10YR3/3			10		52	52	n	n	*I*	1	**2**	DR	
		34	66	SCL	n	10YR4/3			7		37	45	n	n					
		66	120	SC	n	10YR5/4	mn	few	5		51	6	n	n					
										Total	**141**	**103**		SC-many sandy lenses					
										MB	24	-8							
									Droughtiness grade (DR)		2	2							
10	T	0	32	SCL	n	10YR3/3			10		49	49	n	n	*I*	1	**2**	DR	
		32	68	SCL	n	10YR4/3			10		41	49	n	n					
		68	120	SC	n	10YR5/3	Fe	few	7		49	3	n	n					
										Total	**139**	**101**		LSS- many friable sandy lenses					
										MB	22	-10		OM channels in LSS					
									Droughtiness grade (DR)		2	2							
11	T	0	28	SCL	n	10YR3/3			10		43	43	n	n	*II*	2	**2**	WE DR	
		28	50	SCL	n	10YR5/3	Femn	com	5		31	31	y	n					
		50	64	SCL	n	10YR5/3	mn	com	5		13	20	(y)	n					
		64	120	C	n	10YR5/3	Fe/gr	many	2	poor	38	8	y	y					
										Total	**126**	**102**							
										MB	9	-9							
									Droughtiness grade (DR)		2	2							

12	T	0	28	SCL	n	10YR3/3	12		42	42	n	n	/	1	**3a**	DR
		28	78	SCL	n	10YR4/3	12		54	56	n	n				
		78	100	mSL	n	10YR4/4	15		21	0	n	n				
		100	120	mSL	n	10YR5/4	20		18	0	n	n				
								Total	**135**	**98**						
								MB	18	-13						
							Droughtiness grade (DR)		2	3a						
13	T	0	32	mSL	n	10YR3/3	10		49	49	n	n	/	1	**3a**	DR
		32	71	mSL	n	10YR4/3	10		45	52	n	n				
		71	120	LmS	n	10YR5/4	10		27	0	n	n				
								Total	**121**	**101**						
								MB	4	-10						
							Droughtiness grade (DR)		3a	3a						
14	T	0	33	LmS	n	10YR3/3	7		40	40	n	n	/	1	**3b**	DR
		33	80	LmS	n	10YR4/3	12		30	30	n	n				
		80	120	LmS	n	10YR5/4	7		22	0	n	n				
								Total	**92**	**70**						
								MB	-25	-41						
							Droughtiness grade (DR)		3b	3b						
15	T	0	30	mSL	n	10YR3/3	7		48	48	n	n	/	1	**3a**	DR
		30	55	mSL	n	10YR4/3	10		32	34	n	n				
		55	65	mSL	n	10YR5/4	15		9	13	n	n				
		65	120	LmS	n	10YR5/4	15		28	4	n	n				
								Total	**118**	**98**						
								MB	1	-13						
							Droughtiness grade (DR)		3a	3a						

16	T	0	32	mSL	n	10YR3/3			10		49	49	n	n	/	1	**3b**	DR
		32	50	LmS	n	10YR4/4			10		15	15	n	n				
		50	120	LmS	n	10YR5/4			15		36	16	n	n				
										Total	**100**	**80**						
										MB	-17	-31						
									Droughtiness grade (DR)		3a	3b						
17	T	0	33	mSL	n	10YR3/3			12		50	50	n	n	/	1	**3a**	DR
		33	50	mSL	n	10YR4/3			15		22	22	n	n				
		50	120	SCL	n	10YR5/6			15		60	26	n	n				
										Total	**132**	**97**						
										MB	15	-14						
									Droughtiness grade (DR)		2	3a						
18	T	0	33	mSL	n	10YR3/3			12		50	50	n	n	/	1	**3a**	DR
		33	68	mSL	n	10YR4/3			15		39	45	n	n				
		68	120	SCL	n	10YR5/6			15		45	3	n	n				
										Total	**133**	**97**						
										MB	16	-14						
									Droughtiness grade (DR)		2	3a						
19	T	0	33	mSL	n	10YR3/3			12		50	50	n	n	/	1	**3a**	DR
		33	63	mSL	n	10YR4/3			15		34	39	n	n				
		63	120	SC	n	10YR5/4	mn	few	5		54	10	n	n				
										Total	**138**	**98**						
										MB	21	-13						
									Droughtiness grade (DR)		2	3a						
20	T	0	30	mSL	n	10YR3/3			12		45	45	n	n	/	1	**3b**	DR
		30	80	LmS	n	10YR5/4			10		33	33	n	n				
		80	120	LmS	n	10YR5/6			10		22	0	n	n				

								Total	**100**	**78**							
								MB	-17	-33							
							Droughtiness grade (DR)		3a	3b							
21	T	0	34	mSL	n	10YR3/3	10		52	52	n	n	/	1	**3a**	DR	
		34	60	LmS	n	10YR4/3	7		19	22	n	n					
		60	98	LmS	n	10YR5/4	7		21	8	n	n					
		98	120	mSL	n	10YR5/4, 10YR5/6	5		23	0	n	n					
								Total	**116**	**83**							
								MB	-1	-28							
							Droughtiness grade (DR)		3a	3a							
22	T	0	31	mSL	n	10YR3/3	12		47	47	n	n	/	1	**3b**	DR	
		31	80	LmS	n	10YR4/4	12		31	31	n	n					
		80	120	LmS	n	10YR5/6	7		22	0	n	n					
								Total	**101**	**78**							
								MB	-16	-33							
							Droughtiness grade (DR)		3a	3b							
23	T	0	33	mSL	n	10YR3/3	14		49	49	n	n	/	1	**3b**	DR	
		33	60	LmS	n	10YR4/4	10		19	22	n	n					
		60	120	LmS	n	10YR5/6	7		34	8	n	n					
								Total	**102**	**79**							
								MB	-15	-32							
							Droughtiness grade (DR)		3a	3b							
24	T	0	32	mSL	n	10YR3/3	10		49	49	n	n	/	1	**3a**	DR	
		32	84	mSL	n	10YR4/3	10		58	52	n	n					
		84	120	LmS	n	10YR5/4	10		20	0	n	n					
								Total	**127**	**101**							

											MB	10	-10						
										Droughtiness grade (DR)		2	3a						
25	T	0	33	LmS	n	10YR3/3			15			37	37	n	n	*I*	1	**3b**	DR
		33	80	LmS	n	10YR5/4			15			29	29	n	n				
		80	120	LmS	n	10YR5/6			15			21	0	n	n				
											Total	**86**	**66**						
											MB	-31	-45						
										Droughtiness grade (DR)		3b	3b						

Stone types		
%	TAv	EAv
hard	1	0.5
N/A		

Climate Data	
MDwheat	117
MDpotato	111
FCD	123

hard flint & pebble AAR 635

Wetness Class Guidelines	*II*	*III*	*IV*	*V*
SPL within 80cm, gleying within 40cm	>61cm	<61cm		
SPL within 80cm, gleying at 40-70cm	>40cm	<40cm		
No SPL but gleying within 40cm	coarse subsoil	*I*	other cases	*II*

Climate
1364 D^{o}
Limitation
Grade 1

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	$CaCO_3$	Colour	Mottle colour	abund-ance	stone% hard	stone% N/A	Struct-ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
26	T	0	33	LmS	n	10YR3/3			15			37	37	n	n	*I*	1	**3b**	DR
		33	55	LmS	n	10YR4/3			15			16	17	n	n				
		55	120	LmS	n	10YR5/4			20			32	11	n	n				
											Total	**85**	**65**						
											MB	-32	-46						
										Droughtiness grade (DR)		3b	3b						
27	T	0	35	LmS	n	10YR3/3			12			40	40	n	n	*I*	1	**3b**	DR
		35	50	LmS	n	10YR4/3			15			12	12	n	n				
		50	95	LmS	n	10YR5/4			15			23	16	n	n				
		95	120	LmS	n	10YR5/4			15			13	0	n	n				

								Total	**88**	**68**							
								MB	-29	-43							
								Droughtiness grade (DR)	3b	3b							
28	T	0	35	LmS	n	10YR3/3	8		42	42	n	n	/	1	**3b**	DR
		35	60	LmS	n	10YR4/3	10		18	21	n	n				
		60	65	LmS	n	10YR5/4	15		3	4	n	n				
		65	120	LmS	n	10YR5/4	15		28	4	n	n				
								Total	**91**	**70**							
								MB	-26	-41							
								Droughtiness grade (DR)	3b	3b							
29	T	0	35	LmS	n	10YR3/3	12		40	40	n	n	/	1	**3b**	DR
		35	50	LmS	n	10YR4/4	12		12	12	n	n				
		50	120	LmS	n	10YR5/4	20		34	15	n	n				
								Total	**87**	**67**							
								MB	-30	-44							
								Droughtiness grade (DR)	3b	3b							
30	T	0	32	LmS	n	10YR3/3	15		36	36	n	n	/	1	**3b**	DR
		32	52	LmS	n	10YR4/3	15		15	16	n	n				
		52	120	LmS	n	10YR5/4	20		33	13	n	n				
								Total	**84**	**65**							
								MB	-33	-46							
								Droughtiness grade (DR)	3b	3b							
31	T	0	36	LmS	n	10YR3/3	10		42	42	n	n	/	1	**3b**	DR
		36	50	LmS	n	10YR4/3	10		11	11	n	n				
		50	60	LmS	n	10YR5/4	15		5	8	n	n				
		60	120	mSL	n	10YR5/6	15		57	13	n	n				
								Total	**116**	**75**							

									MB	-1	-36						
								Droughtiness grade (DR)		3a	3b						
32	T	0	34	LmS	n	10YR3/3	12			39	39	n	n	/	1	**3b**	DR
		34	60	LmS	n	10YR4/3	12			18	21	n	n				
		60	98	LmS	n	10YR5/4	10			21	8	n	n				
		98	120	SCL	n	10YR5/6	5			21	0	n	n				
									Total	**99**	**68**						
									MB	-18	-43						
								Droughtiness grade (DR)		3a	3b						
33	T	0	35	LmS	n	10YR3/3	15			39	39	n	n	/	1	**3b**	DR
		35	56	LmS	n	10YR4/3	15			15	16	n	n				
		56	120	LmS	n	10YR5/4	15			33	11	n	n				
									Total	**87**	**67**						
									MB	-30	-45						
								Droughtiness grade (DR)		3b	3b						
34	T	0	35	LmS	n	10YR3/3	15			39	39	n	n	/	1	**3b**	DR
		35	56	LmS	n	10YR4/3	15			15	16	n	n				
		56	120	LmS	n	10YR5/4	15			33	11	n	n				
									Total	**87**	**67**						
									MB	-30	-45						
								Droughtiness grade (DR)		3b	3b						
35	T	0	35	LmS	n	10YR3/3	15			39	39	n	n	/	1	**3b**	DR
Pit 2		35	60	LmS	n	10YR4/4	15			17	20	n	n				
		60	120	LmS	n	10YR5/4	15			31	8	n	n				
									Total	**87**	**67**						
									MB	-30	-45						
								Droughtiness grade (DR)		3b	3b						

36	T	0	35	LmS	n	10YR3/3	15		39	39	n	n	/	1	**3b**	DR
		35	58	LmS	n	10YR4/3	10		17	19	n	n				
		58	120	LmS	n	10YR5/4	10		34	10	n	n				
								Total	**90**	**68**						
								MB	-27	-43						
								Droughtiness grade (DR)	3b	3b						
37	T	0	36	LmS	n	10YR3/3	15		40	40	n	n	/	1	**3b**	DR
		36	70	LmS	n	10YR4/3	10		22	28	n	n				
		70	83	LmS	n	10YR5/6	10		7	0	n	n				
		83	120	LmS	n	10YR5/6	15		19	0	n	n				
								Total	**89**	**68**						
								MB	-28	-43						
								Droughtiness grade (DR)	3b	3b						
38	T	0	34	LmS	n	10YR3/3	10		40	40	n	n	/	1	**3b**	DR
		34	56	LmS	n	10YR4/3	10		16	18	n	n				
		56	120	LmS	n	10YR5/6	15		33	11	n	n				
								Total	**90**	**69**						
								MB	-27	-42						
								Droughtiness grade (DR)	3b	3b						
39	T	0	34	SCL	n	10YR4/2	10		52	52	n	n	/	1	**2**	DR
		34	62	SCL	n	10YR4/4	10		33	38	n	n				
		62	120	SCL	n	10YR5/4	5		55	11	n	n				
								Total	**140**	**102**						
								MB	23	-9						
								Droughtiness grade (DR)	2	2						
40	T	0	35	LmS	n	10YR3/3	12		40	40	n	n	/	1	**3b**	DR

		35	60	LmS	n	10YR4/3	7		18	21	n	n					
		60	120	LmS	n	10YR5/6	5		34	9	n	n					
								Total	**93**	**70**							
								MB	-24	-41							
							Droughtiness grade (DR)		3b	3b							
41	T	0	34	LmS	n	10YR3/3	12		39	39	n	n	/	1	**3b**	DR	
		34	70	LmS	n	10YR4/3	12		24	29	n	n					
		70	120	LmS	n	10YR5/6	15		26	0	n	n					
								Total	**89**	**68**							
								MB	-28	-43							
							Droughtiness grade (DR)		3b	3b							
42	T	0	32	LmS	n	10YR4/2	12		37	37	n	n	/	1	**3b**	DR	
		32	55	LmS	n	10YR4/3	15		17	18	n	n					
		55	65	LmS	n	10YR4/4	15		5	8	n	n					
		65	120	LmS	n	10YR5/6	15		28	4	n	n					
								Total	**87**	**67**							
								MB	-30	-44							
							Droughtiness grade (DR)		3b	3b		Grass					
43	T	0	32	LmS	n	10YR4/2	12		37	37	n	n	/	1	**3b**	DR	
		32	120	LmS	n	10YR5/6	10		53	31	n	n					
								Total	**90**	**68**							
								MB	-27	-43							
							Droughtiness grade (DR)		3b	3b							
44	T	0	36	mSL	n	10YR3/3	10		55	55	n	n	/	1	**3a**	DR	
		36	74	LmS	n	10YR4/3	10		25	28	n	n					
		74	120	LmS	n	10YR5/4	10		25	0	n	n					
								Total	**105**	**83**							

								MB	-12	-28							
							Droughtiness grade (DR)		3a	3a							
45	T	0	36	LmS	n	10YR3/3	7		44	44	n	n	/	1	**3b**	DR	
		36	54	LmS	n	10YR4/2	7		14	15	n	n					
		54	74	LmS	n	10YR5/4	5		11	14	n	n					
		74	120	mS	n	10YR5/6	3		22	0	n	n					
								Total	**92**	**73**							
								MB	-25	-38							
							Droughtiness grade (DR)		3b	3b							
46	T	0	35	LmS	n	10YR3/3	10		41	41	n	n	/	1	**3b**	DR	
		35	70	LmS	n	10YR4/3	10		23	29	n	n					
		70	120	LmS	n	10YR5/6	5		29	0	n	n					
								Total	**93**	**70**							
								MB	-24	-41							
							Droughtiness grade (DR)		3b	3b							
47	T	0	34	mSL	n	10YR3/3	12		51	51	n	n	/	1	**3b**	DR	
		34	52	LmS	n	10YR4/3	12		14	14	n	n					
		52	120	LmS	n	10YR5/6	20		33	13	n	n					
								Total	**99**	**79**							
								MB	-18	-32							
							Droughtiness grade (DR)		3a	3b							
48	T	0	35	mSL	n	10YR3/3	12		53	53	n	n	/	1	**3b**	DR	
		35	58	LmS	n	10YR4/3	15		16	18	n	n					
		58	80	LmS	n	10YR5/4	15		11	9	n	n					
		80	120	LmS	n	10YR5/4	15		21	0	n	n					
								Total	**101**	**80**							
								MB	-16	-31							

								Droughtiness grade (DR)		3a	3b						
49	T	0	33	mSL	n	10YR3/3	10			51	51	n	n	/	1	**3a**	DR
		33	60	LmS	n	10YR4/3	10			19	22	n	n				
		60	66	LmS	n	10YR5/6	10			3	5	n	n				
		66	120	SCL	n	10YR5/4	5			51	6	n	n				
									Total	**125**	**84**						
									MB	8	-27						
								Droughtiness grade (DR)		2	3a						
50	T	0	34	mSL	n	10YR3/3	10			52	52	n	n	/	1	**3a**	DR
		34	60	LmS	n	10YR4/3	15			18	20	n	n				
		60	120	SCL	n	10YR5/4	15			51	13	n	n				
									Total	**121**	**86**						
									MB	4	-25						
								Droughtiness grade (DR)		3a	3a						
51	T	0	35	mSL	n	10YR3/3	15			51	51	n	n	/	1	**3b**	DR
		35	75	LmS	n	10YR4/3	15			25	27	n	n				
		75	120	SCL	n	10YR5/4	7			42	0	n	n				
									Total	**118**	**78**						
									MB	1	-33						
								Droughtiness grade (DR)		3a	3b						
52	T	0	35	mSL	n	10YR3/3	12			53	53	n	n	/	1	**3b**	DR
		35	60	LmS	n	10YR4/3	15			17	20	n	n				
		60	120	LmS	n	10YR5/4	15			31	8	n	n				
									Total	**101**	**80**						
									MB	-16	-31						
								Droughtiness grade (DR)		3a	3b						

53	T	0	34	mSL	n	10YR3/3		15			50	50	n	n	*I*	1	**3a**	DR
		34	60	LmS	n	10YR4/3		15			18	20	n	n				
		60	120	SCL	n	10YR5/3		10			54	14	n	n				
										Total	**122**	**84**		SCL-common sand and clayey lenses				
										MB	5	-27						
									Droughtiness grade (DR)		2	3a						
54	T	0	34	mSL	n	10YR3/3		15			50	50	n	n	*I*	1	**3b**	DR
		34	72	LmS	n	10YR4/3		15			24	28	n	n				
		72	120	LmS	n	10YR5/4		15			25	0	n	n				
										Total	**98**	**78**						
										MB	-19	-33						
									Droughtiness grade (DR)		3a	3b						

Stone types		
%	TAv	EAv
hard	1	0.5
N/A		

Climate Data	
MDwheat	119
MDpotato	114
FCD	121
AAR	623

Wetness Class Guidelines	*II*	*III*	*IV*	*V*
SPL within 80cm, gleying within 40cm	>60cm	<60cm		
SPL within 80cm, gleying at 40-70cm	>40cm	<40cm		
No SPL but gleying within 40cm	coarse subsoil	*I*	other cases	*II*

Climate
1391 D^{o}
Limitation
Grade 1

hard flint & pebble

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	$CaCO_3$	Colour	Mottle colour	abund-ance	stone% hard	stone% N/A	Struct-ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
55	T	0	33	mSL	n	10YR4/2			12			50	50	n	n	*I*	1	**3b**	DR
		33	50	LmS	n	10YR4/4			15			13	13	n	n				
		50	60	LmS	n	10YR5/4			15			5	8	n	n				
		60	120	LmS	n	10YR5/4			20			29	7	n	n				
											Total	**98**	**78**						
											MB	-21	-36						
										Droughtiness grade (DR)		3b	3b						

56	T	0	34	mSL	n	10YR4/2	25		44	44	n	n	/	1	**3b**	DR ST
		34	60	LmS	n	10YR4/4	25		16	18	n	n				
		60	120	LmS	n	10YR5/4	25		28	7	n	n				
								Total	**88**	**69**		Not representative of the field local corner of high stone				
								MB	-31	-45		Some large stone ST>2cm. 17%				
							Droughtiness grade (DR)		3b	3b					3b	
57	T	0	30	mSL	n	10YR4/2	15		44	44	n	n	/	1	**3b**	DR
		30	54	LmS	n	10YR4/3	15		18	19	n	n				
		54	70	LmS	n	10YR5/6	20		8	12	n	n				
		70	120	LmS	n	10YR5/6	20		25	0	n	n				
								Total	**94**	**74**						
								MB	-25	-40						
							Droughtiness grade (DR)		3b	3b						
58	T	0	30	LmS	n	10YR4/2	12		35	35	n	n	/	1	**3b**	DR
		30	40	LmS	n	10YR4/3	15		8	8	n	n				
		40	70	LmS	n	10YR5/6	20		17	22	n	n				
		70	120	LmS	n	10YR5/6	20		25	0	n	n				
								Total	**84**	**65**						
								MB	-35	-49						
							Droughtiness grade (DR)		3b	3b						
59	T	0	34	LmS	n	10YR4/3	10		40	40	n	n	/	1	**3b**	DR
		34	55	LmS	n	10YR4/6	10		16	17	n	n				
		55	82	LmS	n	10YR5/6	10		15	12	n	n				
		82	120	mSL	n	10YR6/4	10		38	0	n	n				
								Total	**108**	**70**						
								MB	-11	-44						
							Droughtiness grade (DR)		3a	3b						

60	T	0	32	LmS	n	10YR4/2	10		38	38	n	n	/	1	**3b**	DR
		32	50	LmS	n	10YR5/6	10		15	15	n	n				
		50	120	LmS	n	10YR5/6	15		36	16	n	n				
								Total	**89**	**68**						
								MB	-30	-46						
							Droughtiness grade (DR)		3b	3b						
61	T	0	35	LmS	n	10YR4/2	7		43	43	n	n	/	1	**3b**	DR
		35	52	LmS	n	10YR4/3	10		13	14	n	n				
		52	120	LmS	n	10YR5/6	20		33	13	n	n				
								Total	**89**	**70**						
								MB	-30	-44						
							Droughtiness grade (DR)		3b	3b						
62	T	0	35	LmS	n	10YR4/2	12		40	40	n	n	/	1	**3b**	DR
		35	55	LmS	n	10YR5/6	10		15	16	n	n				
		55	120	LmS	n	10YR5/6	10		35	12	n	n				
								Total	**91**	**69**						
								MB	-28	-45						
							Droughtiness grade (DR)		3b	3b						
63	T	0	30	LmS	n	10YR4/2	10		35	35	n	n	/	1	**3b**	DR
		30	50	LmS	n	10YR4/4	10		16	16	n	n				
		50	120	LmS	n	10YR5/6	10		38	16	n	n				
								Total	**90**	**68**						
								MB	-29	-46						
							Droughtiness grade (DR)		3b	3b						
64	T	0	30	LmS	n	10YR4/2	10		35	35	n	n	/	1	**3b**	DR
		30	56	LmS	n	10YR4/3	10		20	21	n	n				

		56	120	LmS	n	10YR5/6	10		35	11	n	n					
								Total	**90**	**68**							
								MB	-29	-46							
							Droughtiness grade (DR)		3b	3b							
65	T	0	34	LmS	n	10YR3/3	12		39	39	n	n	/	1	**3b**	DR	
		34	67	LmS	n	10YR4/4	15		21	26	n	n					
		67	120	SCL	n	10YR5/3	3		51	4	n	n					
								Total	**112**	**69**							
								MB	-7	-45							
							Droughtiness grade (DR)		3a	3b							
66	T	0	32	LmS	n	10YR3/3	7		39	39	n	n	/	1	**3b**	DR	
		32	72	LmS	n	10YR4/3	5		28	33	n	n					
		72	120	mSL	n	10YR5/4	3		51	0	n	n					
								Total	**118**	**72**							
								MB	-1	-42							
							Droughtiness grade (DR)		3a	3b							
67	T	0	34	LmS	n	10YR3/3	5		42	42	n	n	/	1	**3b**	DR	
		34	62	LmS	n	10YR4/4	5		21	24	n	n					
		62	120	LmS	n	10YR5/6	7		33	7	n	n					
								Total	**95**	**73**							
								MB	-24	-41							
							Droughtiness grade (DR)		3b	3b							
68	T	0	35	LmS	n	10YR3/3	5		43	43	n	n	/	1	**3b**	DR	
Pit 3		35	70	LmS	n	10YR4/3	7		24	30	n	n					
		70	120	LmS	n	10YR5/6	3		29	0	n	n					
								Total	**96**	**73**		LSS-LmS/S					
								MB	-23	-41							

							Droughtiness grade (DR)		3b	3b								
69	T	0	33	LmS	n	10YR3/3	7		40	40	n	n	/	1	**3b**	DR		
		33	78	LmS	n	10YR5/4, 10YR4/3	7		30	31	n	n						
		78	120	mS	n	10YR5/6	3		20	0	n	n						
								Total	**91**	**71**								
								MB	-28	-43								
							Droughtiness grade (DR)		3b	3b								
70	T	0	33	LmS	n	10YR3/3	10		39	39	n	n	/	1	**3b**	DR		
		33	70	LmS	n	10YR5/4	5		26	32	n	n						
		70	120	mS	n	10YR5/6	3		24	0	n	n						
								Total	**89**	**71**								
								MB	-30	-43								
							Droughtiness grade (DR)		3b	3b								
71	T	0	36	LmS	n	10YR3/3	7		44	44	n	n	/	1	**3b**	DR		
		36	72	LmS	n	10YR5/4	5		25	29	n	n						
		72	120	LmS	n	10YR5/6	2		28	0	n	n						
								Total	**97**	**73**								
								MB	-22	-41								
							Droughtiness grade (DR)		3b	3b								
72	T	0	33	LmS	n	10YR3/3	7		40	40	n	n	/	1	**3b**	DR		
		33	50	LmS	n	10YR4/4	7		14	14	n	n						
		50	120	LmS	n	10YR5/6	5		40	17	n	n						
								Total	**95**	**72**								
								MB	-24	-42								
							Droughtiness grade (DR)		3b	3b								
73	T	0	33	LmS	n	10YR3/3	5		41	41	n	n	/	1	**3b**	DR		

		33	60	LmS	n	10YR4/4	5		20	23	n	n					
		60	110	LmS	n	10YR5/6	3		29	9	n	n					
		110	120	mS	n	10YR5/6	3		5	0	n	n					
								Total	**95**	**73**							
								MB	-24	-41							
							Droughtiness grade (DR)		3b	3b							
74	T	0	36	LmS	n	10YR3/3	5		45	45	n	n	/	1	**3b**	DR	
		36	58	LmS	n	10YR4/3	10		16	18	n	n					
		58	80	mSL	n	10YR5/3	2		24	18	n	n					
		80	120	mSL	n	10YR5/4	5		42	0	n	n					
								Total	**126**	**80**							
								MB	7	-34							
							Droughtiness grade (DR)		2	3b							
75	T	0	34	LmS	n	10YR3/3	7		41	41	n	n	/	1	**3b**	DR	
		34	76	LmS	n	10YR5/4	7		28	30	n	n					
		76	120	mS	n	10YR5/4	5		21	0	n	n					
								Total	**90**	**72**							
								MB	-29	-42							
							Droughtiness grade (DR)		3b	3b							
76	T	0	33	LmS	n	10YR3/3	7		40	40	n	n	/	1	**3b**	DR	
		33	80	LmS	n	10YR5/3	5		32	32	n	n					
		80	120	mSL	n	10YR5/4, 10YR5/6	3		43	0	n	n					
								Total	**115**	**72**							
								MB	-4	-42							
							Droughtiness grade (DR)		3a	3b							
77	T	0	33	LmS	n	10YR3/3	7		40	40	n	n	/	1	**3b**	DR	
		33	62	LmS	n	10YR4/3	7		21	24	n	n					

		62	120	LmS	n	10YR5/4	5		33	7	n	n					
								Total	**94**	**71**							
								MB	-25	-43							
							Droughtiness grade (DR)		3b	3b							
78	T	0	33	LmS	n	10YR3/3	7		40	40	n	n	/	1	**3b**	DR	
		33	70	LmS	n	10YR4/4	7		26	31	n	n					
		70	106	LmS	n	10YR5/4	5		21	0	n	n					
		106	120	SCL	n	10YR5/3	2		14	0	n	n					
								Total	**100**	**71**							
								MB	-19	-43							
							Droughtiness grade (DR)		3a	3b							
79	T	0	34	LmS	n	10YR3/3	12		39	39	n	n	/	1	**3b**	DR	
		34	60	LmS	n	10YR5/4	12		18	21	n	n					
		60	86	LmS	n	10YR5/6	12		14	8	n	n					
		86	120	LmS	n	10YR5/6	15		18	0	n	n					
								Total	**89**	**68**							
								MB	-30	-46							
							Droughtiness grade (DR)		3b	3b							
80	T	0	34	LmS	n	10YR3/3	7		41	41	n	n	/	1	**3b**	DR	
		34	40	LmS	n	10YR5/4	20		4	4	n	n					
		40	120	LmS	n	10YR5/6	20		42	22	n	n					
								Total	**87**	**68**							
								MB	-32	-46							
							Droughtiness grade (DR)		3b	3b							
81	T	0	34	LmS	n	10YR3/3	7		41	41	n	n	/	1	**3b**	DR	
		34	60	LmS	n	10YR4/3	7		19	22	n	n					
		60	120	LmS	n	10YR5/6	5		34	9	n	n					

								Total	**95**	**72**						
								MB	-24	-42						
							Droughtiness grade (DR)		3b	3b						
82	T	0	34	LmS	n	10YR3/3	20		36	36	n	n	/	1	**3b**	DR
		34	60	LmS	n	10YR4/3	15		18	20	n	n				
		60	85	LmS	n	10YR5/4	15		13	8	n	n				
		85	120	LmS	n	10YR5/4	15		18	0	n	n				
								Total	**85**	**64**						
								MB	-34	-50						
							Droughtiness grade (DR)		3b	3b						
83	T	0	33	LmS	n	10YR3/3	12		38	38	n	n	/	1	**3b**	DR
		33	65	LmS	n	10YR4/3	7		23	27	n	n				
		65	120	SC	n	10YR5/3	3		53	7	n	n				
								Total	**114**	**72**						
								MB	-5	-42						
							Droughtiness grade (DR)		3a	3b						
84	T	0	31	LmS	n	10YR3/3	12		36	36	n	n	/	1	**3b**	DR
		31	56	LmS	n	10YR4/3	15		18	20	n	n				
		56	110	LmS	n	10YR5/4	10		29	11	n	n				
		110	120	mS	n	10YR5/4	7		5	0	n	n				
								Total	**88**	**67**						
								MB	-31	-47						
							Droughtiness grade (DR)		3b	3b						
85	T	0	32	LmS	n	10YR3/3	12		37	37	n	n	/	1	**3b**	DR
		32	50	LmS	n	10YR4/3	10		15	15	n	n				
		50	72	LmS	n	10YR5/6	10		12	16	n	n				
		72	120	SCL	n	10YR5/6	10		43	0	n	n				

								Total	**107**	**68**						
								MB	-12	-46						
							Droughtiness grade (DR)		3a	3b						
86	T	0	34	LmS	n	10YR3/3	12		39	39	n	n	/	1	**3b**	DR	
		34	56	LmS	n	10YR5/6	10		16	18	n	n					
		56	87	LmS	n	10YR5/6	10		17	11	n	n					
		87	120	mS	n	10YR5/6	7		15	0	n	n					
								Total	**88**	**69**						
								MB	-31	-45						
							Droughtiness grade (DR)		3b	3b						
87	T	0	34	LmS	n	10YR3/3	15		38	38	n	n	/	1	**3b**	DR	
		34	65	LmS	n	10YR4/3	15		20	24	n	n					
		65	93	LmS	n	10YR6/2, 10YR5/4	15		14	4	n	n					
		93	120	mSL	n	10YR5/4	5		28	0	n	n					
								Total	**101**	**66**		93+ few clay lenses					
								MB	-18	-48							
							Droughtiness grade (DR)		3a	3b							
88	T	0	30	LmS	n	10YR3/3	15		34	34	n	n	/	1	**3b**	DR	
		30	50	LmS	n	7.5YR4/3	15		16	16	n	n					
		50	120	LmS	n	10YR5/4	15		36	16	n	n					
								Total	**85**	**65**		Lots of small stone					
								MB	-34	-49							
							Droughtiness grade (DR)		3b	3b							
89	T	0	32	LmS	n	10YR3/3	7		39	39	n	n	/	1	**3b**	DR	
		32	45	LmS	n	10YR4/3	10		11	11	n	n					
		45	120	LmS	n	10YR5/4	15		40	20	n	n					
								Total	**90**	**69**							

								MB	-29	-45								
							Droughtiness grade (DR)		3b	3b								
90	T	0	34	LmS	n	10YR3/3	12		39	39	n	n	/	1	**3b**	DR		
		34	64	LmS	n	10YR4/3	10		21	25	n	n						
		64	120	SCL	n	10YR5/3	5		53	9	n	n						
								Total	**113**	**72**								
								MB	-6	-42								
							Droughtiness grade (DR)		3a	3b								
91	T	0	33	LmS	n	10YR3/3	15		37	37	n	n	/	1	**3b**	DR		
		33	52	LmS	n	10YR4/4	10		15	16	n	n						
		52	120	SCL	n	10YR5/4	7		63	25	n	n						
								Total	**115**	**78**								
								MB	-4	-36								
							Droughtiness grade (DR)		3a	3b								
92	T	0	36	LmS	n	10YR3/3	12		42	42	n	n	/	1	**3b**	DR		
Pit 4		36	60	LmS	n	10YR4/3	20		15	18	n	n						
		60	90	LmS	n	10YR5/6	20		15	7	n	n						
		90	120	mS	n	10YR5/6	7		14	0	n	n						
								Total	**86**	**67**		36-90cm lots small stone						
								MB	-33	-47								
							Droughtiness grade (DR)		3b	3b								
93	T	0	32	LmS	n	10YR3/3	23		33	33	n	n	/	1	**3b**	DR		
		32	40	LmS	n	10YR4/3	20		6	6	n	n						
		40	120	LmS	n	10YR5/6	20		42	22	n	n						
								Total	**80**	**61**		Locally high TS stone ST>2cm. 13%			3a			
								MB	-39	-53								
							Droughtiness grade (DR)		3b	3b								

94	T	0	32	LmS	n	10YR3/3		15			36	36	n	n	*I*	1	**3b**	DR
		32	60	LmS	n	10YR4/3		10			20	23	n	n				
		60	82	LmS	n	10YR5/4		7			12	8	n	n				
		82	109	LmS	n	10YR6/4		7			15	0	n	n				
		109	120	mS	n	10YR6/4		5			5	0	n	n				
										Total	**89**	**67**		Grass				
										MB	-30	-47						
									Droughtiness grade (DR)		3b	3b						

Stone types		
%	TAv	EAv
hard	1	0.5
N/A		

Climate Data	
MDwheat	117
MDpotato	113
FCD	122

Wetness Class Guidelines	*II*	*III*	*IV*	*V*
SPL within 80cm, gleying within 40cm	>61cm	<61cm		
SPL within 80cm, gleying at 40-70cm	>40cm	<40cm		
No SPL but gleying within 40cm	coarse subsoil	*I*	other cases	*II*

Climate
1395 D°
Limitation
Grade 1

hard flint & pebble

AAR 631

Maximum depth of auger penetration is underlined

Site No.		Depth cm		Texture	$CaCO_3$	Colour	Mottle colour	abund-ance	stone% hard	stone% N/A	Struct-ure	APwheat mm	AP potato mm	Gley	SPL	WC	Wetness grade WE	Final Grade	Limiting Factor(s)
95	T	0	30	ohCL		10YR3/2			10			76	76	n	n	*III-IV*	3b	**4**	FL
		30	45	hCL		10YR3/2			10			22	22	n	n				
		45	55	LmS		10YR5/1			20			6	7	n	n				
		55	120	LmS		10YR5/1			25			30	11	n	n				
											Total	**134**	**116**		Wetness assessed in line with Table 11				
											MB	17	3		River Wensum floodplain- EAFZ3				
									Droughtiness grade (DR)			2	2						
96	T	0	33	ohCL	calc	10YR3/2			5			88	88	n	n	*III-IV*	3b	**4**	FL
		33	70	PL		10YR2/1			0			82	100	n	n				
		70	105	PL		10YR2/1			0			63	0	n	n				
		105	120	LmS		10YR4/1			10			8	0	n	n				

									Total	**241**	**188**		Wetness assessed in line with Table 11					
									MB	124	75		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1							
97	T	0	35	ohCL	calc	10YR3/2	10			89	89	n	n	*III-IV*	3b	**4**	FL	
		35	62	PL		10YR2/1	0			62	73	n	n					
		62	70	mSL		10YR5/1	15			8	10	n	n					
		70	120	LmS		10YR5/1	20			25	0	n	n					
									Total	**183**	**172**		Wetness assessed in line with Table 11					
									MB	66	59		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1							
98	T	0	25	ohCL	sli	10YR3/2	3			68	68	n	n	*III-IV*	3b	**4**	FL	
		25	100	PL		10YR2/1	0			158	122	n	n					
		100	120	PL		10YR2/1	0			36	0	n	n					
									Total	**261**	**189**		Wetness assessed in line with Table 11					
									MB	144	76		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1							
99	T	0	7	oLmS		10YR3/1	10			0	0	n	n	*III-IV*	3a	**4**	FL DR	
	T	7	15	LmS		10YR5/3, 10YR6/3	25			8	8	n	n					
		15	120	LmS		10YR5/1	25			57	39	n	n					
									Total	**65**	**47**		Wetness assessed in line with Table 11					
									MB	-52	-66		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		4	4							
100	T	0	30	LmS		10YR3/3	20			32	32	n	n	*III-IV*	3a	**4**	FL	
		30	120	LmS		10YR5/1	25			46	28	n	n					
									Total	**78**	**60**		Wetness assessed in line with Table 11					
									MB	-39	-53		River Wensum floodplain- EAFZ3					

									Droughtiness grade (DR)		3b	3b							
101	T	0	20	oSCL	mod	10YR3/3	Fe	many	20		45	45	n	n	*III-IV*	3b	**4**	FL	
		20	40	SCL	mod	10YR4/1	Fe	com	25		23	23	n	n					
		40	120	LmS		10YR5/1			25		39	21	n	n					
										Total	**108**	**89**		Wetness assessed in line with Table 11					
										MB	-9	-24		River Wensum floodplain- EAFZ3					
									Droughtiness grade (DR)		3a	3a							
102	T	0	25	ohCL		10YR3/3	Fe	com	0		70	70	n	n	*III-IV*	3b	**4**	FL	
		25	70	ohCL		10YR2/1			0		110	126	n	n					
		70	100	LP		10YR2/1			0		78	0	n	n					
		100	120	mSL		10YR5/1			25		17	0	n	n					
										Total	**275**	**196**		Wetness assessed in line with Table 11					
										MB	158	83		River Wensum floodplain- EAFZ3					
									Droughtiness grade (DR)		1	1							
103	T	0	30	oSCL		10YR3/2	Fe	com	3		82	82	n	n	*III-IV*	3b	**4**	FL	
		30	35	SCL		10YR4/2			20		6	6	n	n					
		35	120	LmS		10YR5/1			25		43	25	n	n					
										Total	**131**	**112**		Wetness assessed in line with Table 11					
										MB	14	-1		River Wensum floodplain- EAFZ3					
									Droughtiness grade (DR)		2	2							
104	T	0	23	oSCL		10YR3/2	Fe	com	10		58	58	n	n	*III-IV*	3b	**4**	FL	
		23	80	PL		10YR2/1			0		127	127	n	n					
		80	120	LmS		10YR5/1			25		19	0	n	n					
										Total	**204**	**185**		Wetness assessed in line with Table 11					
										MB	87	72		River Wensum floodplain- EAFZ3					
									Droughtiness grade (DR)		1	1							

105	T	0	24	oSCL	10YR3/2	5		64	64	n	n	*III-IV*	3b	**4**	FL
		24	50	PL	10YR2/1	0		70	70	n	n				
		50	60	omSL	10YR3/1	10		14	21	n	n				
		60	120	LmS	10YR5/1	25		28	7	n	n				
							Total	**176**	**162**		Wetness assessed in line with Table 11				
							MB	59	49		River Wensum floodplain- EAFZ3				
						Droughtiness grade (DR)		1	1						
106	T	0	25	oLmS	10YR3/2	15		0	0	n	n	*III-IV*	3a	**4**	FL DR
		25	30	LmS	10YR6/2	25		4	4	n	n				
		30	120	LmS	10YR3/1	25		46	28	n	n				
							Total	**50**	**32**		Wetness assessed in line with Table 11				
							MB	-67	-81		River Wensum floodplain- EAFZ3				
						Droughtiness grade (DR)		4	4						
107	T	0	22	ohCL	10YR3/2	0		62	62	n	n	*III-IV*	3b	**4**	FL
		22	80	LP	10YR2/1	0		176	168	n	n				
		80	120	LP	10YR3/1	0		104	0	n	n				
							Total	**342**	**230**		Wetness assessed in line with Table 11				
							MB	225	117		River Wensum floodplain- EAFZ3				
						Droughtiness grade (DR)		1	1						
108	T	0	25	ohCL	10YR3/2	0		70	70	n	n	*III-IV*	3b	**4**	FL
		25	50	LP	10YR2/1	0		88	88	n	n				
		50	63	LP	10YR3/1	0		34	46	n	n				
		63	120	LmS	10YR3/1	25		26	5	n	n				
							Total	**218**	**208**		Wetness assessed in line with Table 11				
							MB	101	95		River Wensum floodplain- EAFZ3				
						Droughtiness grade (DR)		1	1						

109	T	0	24	ohCL	10YR3/2			0		67	67	n	n	*III-IV*	3b	**4**	FL	
		24	80	LP	10YR2/2			0		169	161	n	n					
		80	120	LmS	10YR5/2			10		22	0	n	n					
									Total	**258**	**228**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	141	115							
								Droughtiness grade (DR)		1	1							
110	T	0	22	ohCL	10YR3/2			0		62	62	n	n	*III-IV*	3b	**4**	FL	
		22	45	LP	10YR2/1			0		81	81	n	n					
		45	60	mSL	10YR5/2			20		15	18	n	n					
		60	120	LmS	10YR5/1			25		28	7	n	n					
									Total	**185**	**167**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	68	54							
								Droughtiness grade (DR)		1	1							
111	T	0	23	ohCL	10YR3/2			10		58	58	n	n	*III-IV*	3b	**4**	FL	
		23	50	LP	10YR2/1			0		95	95	n	n					
		50	120	LmS	10YR5/2			25		32	14	n	n					
									Total	**185**	**167**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	68	54							
								Droughtiness grade (DR)		1	1							
112	T	0	25	SCL	10YR4/2			5		41	41	n	n	*III-IV*	3b	**4**	FL	
		25	65	SCL	10YR5/4			5		50	57	n	n					
		65	85	SC	10YR5/4, 10YR6/4	Fe	com	10		18	7	n	n					
		85	120	SC	10YR6/4	Fe	com	20		28	0	n	n					
									Total	**137**	**105**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	20	-9							
								Droughtiness grade (DR)		2	2							

113	T	0	40	oSCL	10YR3/2			0		112	112	n	n	*III-IV*	3b	**4**	FL	
		40	120	SCL	10YR5/4			20		69	37	n	n					
									Total	**181**	**149**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	64	36							
								Droughtiness grade (DR)		1	1							
114	T	0	30	oLmS	10YR3/2			10		0	0	n	n	*III-IV*	3a	**4**	FL DR	
		30	50	LmS	10YR4/2			15		16	16	n	n					
		50	120	LmS	10YR5/2			25		32	14	n	n					
									Total	**48**	**30**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	-69	-83							
								Droughtiness grade (DR)		4	4							
115	T	0	22	ohCL	10YR3/2	Fe	com	0		62	62	n	n	*III-IV*	3b	**4**	FL	
Pit 5		22	60	LP	10YR2/1			0		124	133	n	n					
		60	120	PL	10YR2/1			0		108	27	n	n					
									Total	**294**	**222**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	177	109							
								Droughtiness grade (DR)		1	1							
116	T	0	20	ohCL	10YR3/2	Fe	com	2		55	55	n	n	*III-IV*	3b	**4**	FL	
		20	110	PL	10YR2/1			0		189	135	n	n					
		110	120	LmS	10YR2/1			20		5	0	n	n					
									Total	**249**	**190**		Wetness assessed in line with Table 11 River Wensum floodplain- EAFZ3					
									MB	132	77							
								Droughtiness grade (DR)		1	1							
117	T	0	25	ohCL	10YR3/2	Fe	com	2		69	69	n	n	*III-IV*	3b	**4**	FL	
		25	80	ohCL	10YR2/1			0		130	126	n	n					
		80	120	PL	10YR2/1			0		72	0	n	n					

										Total	**271**	**195**		Wetness assessed in line with Table 11					
										MB	154	82		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1								
118	T	0	23	ohCL		10YR3/2	Fe	com	2		63	63	n	n	*III-IV*	3b	**4**	FL	
		23	120	PL		10YR2/1			0		199	127	n	n					
										Total	**262**	**190**		Wetness assessed in line with Table 11					
										MB	145	77		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1								
119	T	0	25	ohCL		10YR3/2	Fe	com	2		69	69	n	n	*III-IV*	3b	**4**	FL	
		25	80	PL		10YR2/1			0		122	122	n	n					
		80	90	LmS		10YR4/1			10		5	0	n	n					
		90	120	LmS		10YR5/1			25		14	0	n	n					
										Total	**209**	**190**		Wetness assessed in line with Table 11					
										MB	92	77		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1								
Pit 6	T	0	20	oSCL		10YR3/2	Fe	com	2		55	55	n	n	*III-IV*	3b	**4**	FL	
		20	52	PL		10YR2/1	Fe	few	0		85	86	n	n					
		52	60	mSL		10YR4/1			10		8	11	n	n					
		60	120	LmS		10YR5/1			25	Total	**28**	**7**		Wetness assessed in line with Table 11					
										MB	**175**	**159**		River Wensum floodplain- EAFZ3					
								Droughtiness grade (DR)		1	1								
120	T	0	35	mSL	mod	10YR4/2			10		54	54	n	n	*I*	1	**3a**	DR	
		35	53	LmS	mod	10YR5/6			10		14	15	n	n					
		53	120	LmS	mod	10YR5/4			7		38	14	n	n					
										Total	**105**	**83**							
										MB	-12	-30							

							Droughtiness grade (DR)		3a	3a							
121	T	0	32	LmS	mod	10YR4/2	10		38	38	n	n	/	1	**3b**	DR	
		32	60	LmS	mod	10YR5/6	12		20	23	n	n					
		60	82	LmS	mod	10YR5/4	15		11	8	n	n					
		82	120	LmS	mod	10YR5/4	15		20	0	n	n					
								Total	**89**	**68**							
								MB	-28	-45							
							Droughtiness grade (DR)		3b	3b							
122	T	0	30	LmS	mod	10YR4/2	12		35	35	n	n	/	1	**3b**	DR	
		30	60	LmS	mod	10YR5/6	12		21	24	n	n					
		60	120	LmS	mod	10YR5/4	15		31	8	n	n					
								Total	**87**	**67**							
								MB	-30	-46							
							Droughtiness grade (DR)		3b	3b							
123	T	0	30	mSL	mod	10YR4/2	12		45	45	n	n	/	1	**3b**	DR	
		30	120	LmS	mod	10YR5/3	15		52	31	n	n					
								Total	**97**	**76**		Mostly small SS stone					
								MB	-20	-37							
							Droughtiness grade (DR)		3a	3b							
124	T	0	33	mSL	mod	10YR4/2	15		48	48	n	n	/	1	**3b**	DR	
Pit 7		33	57	LmS	sli	10YR5/3	15		17	19	n	n					
		57	120	LmS	sli	10YR5/4	15		33	10	n	n					
								Total	**98**	**77**		Archaeology trench					
								MB	-19	-36							
							Droughtiness grade (DR)		3a	3b							
125	T	0	35	LmS	n	10YR4/2	10		41	41	n	n	/	1	**3b**	DR	

Pit 8		35	62	LmS	n	10YR5/3	10		19	22	n	n					
		62	120	LmS	n	10YR5/4	10		32	7	n	n					
								Total	**92**	**70**		Archaeology trench					
								MB	-25	-43		Varied stone locally					
								Droughtiness grade (DR)	3b	3b							
126	T	0	35	LmS	n	10YR3/3	10		41	41	n	n	/	1	**3b**	DR	
		35	65	LmS	n	10YR4/3	10		20	25	n	n					
		65	120	LmS	n	10YR5/4	10		30	4	n	n					
								Total	**92**	**70**							
								MB	-25	-43							
								Droughtiness grade (DR)	3b	3b							
127	T	0	34	mSL	n	10YR3/3	12		51	51	n	n	/	1	**3b**	DR	
		34	60	LmS	n	10YR4/3	15		18	20	n	n					
		60	120	LmS	n	10YR5/4	15		31	8	n	n					
								Total	**100**	**79**							
								MB	-17	-34							
								Droughtiness grade (DR)	3a	3b							
128	T	0	35	LmS	n	10YR3/3	10		41	41	n	n	/	1	**3b**	DR	
		35	66	LmS	n	10YR4/4	10		21	25	n	n					
		66	120	LmS	n	10YR5/6	5		31	3	n	n					
								Total	**93**	**70**							
								MB	-24	-43							
								Droughtiness grade (DR)	3b	3b							
129	T	0	30	mSL	n	10YR3/3	10		46	46	n	n	/	1	**3a**	DR	
		30	62	mSL	n	10YR3/3	15		37	41	n	n					
		62	102	SC	n	10YR4/4, 10YR4/6	7		37	11	n	n					

		102	120	SCL	n	10YR4/4, 10YR4/6	5		17	0	n	n						
								Total	**138**	**99**								
								MB	21	-14								
								Droughtiness grade (DR)	2	3a								
130	T	0	34	LmS	n	10YR3/3	7		41	41	n	n	*I*	1	**3b**	DR		
		34	72	LmS	n	10YR5/4	10		25	30	n	n						
		72	120	LmS	n	10YR5/6	10		26	0	n	n						
								Total	**93**	**71**								
								MB	-24	-42								
								Droughtiness grade (DR)	3b	3b								

Appendix 3: Site Photographs

Pit 1: Pit wall

Pit 1: Topsoil

Pit 1: Subsoil

Pit 1: Subsoil

Pit 3: Pit wall

Pit 3: Topsoil

Pit 3: Upper subsoil

Pit 3: Lower subsoil

Pit 4: Pit wall

Pit 4: Topsoil

Pit 4: Upper subsoil

Pit 4: Lower subsoil

Pit 5: Overview

Pit 5: Pit wall

Pit 5: Topsoil

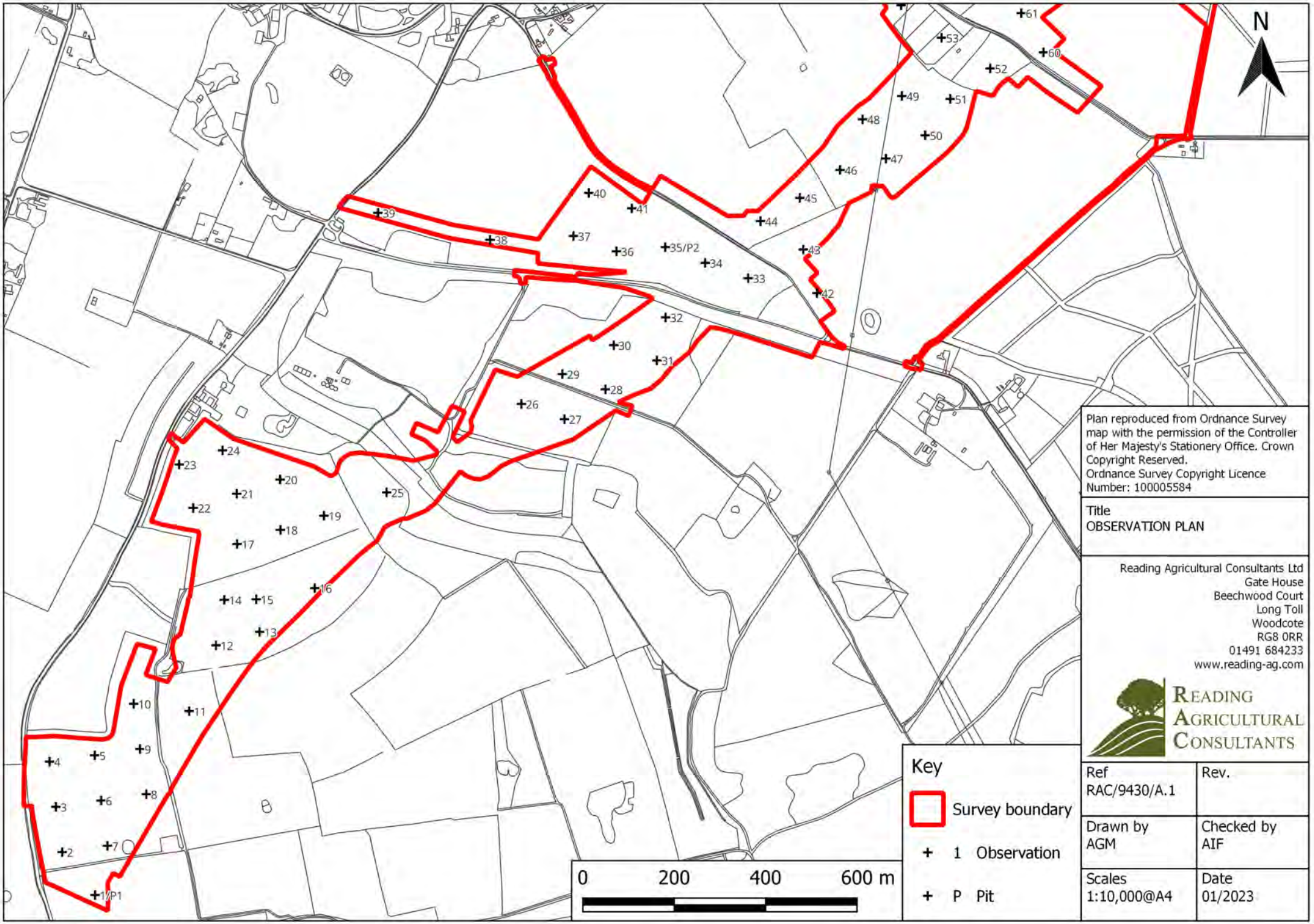
Pit 5: Peaty subsoil

Pit 6: Overview

Pit 6: Peaty subsoil

Pit 6: Peaty subsoil

Pit 7: Archaeology trench



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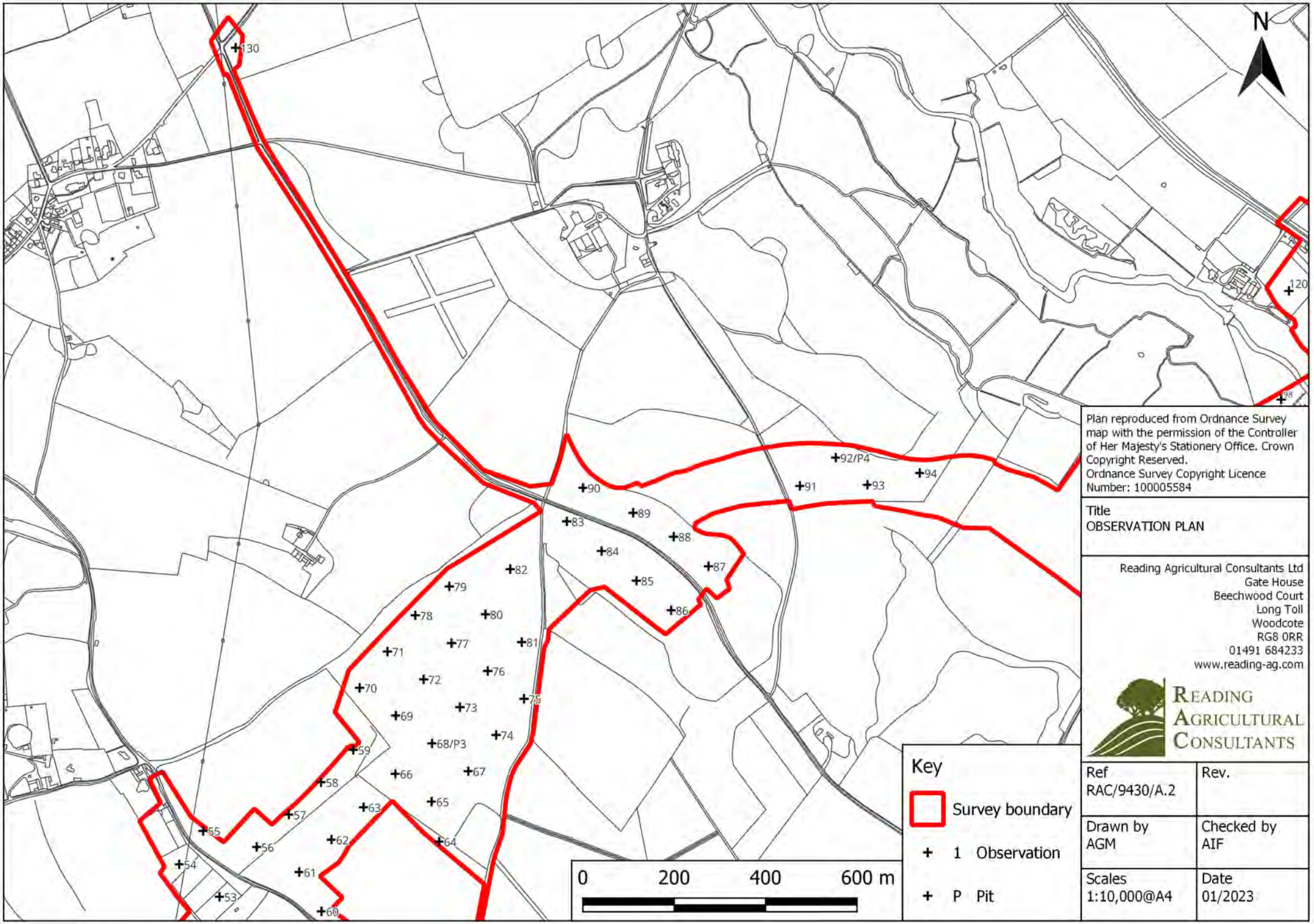

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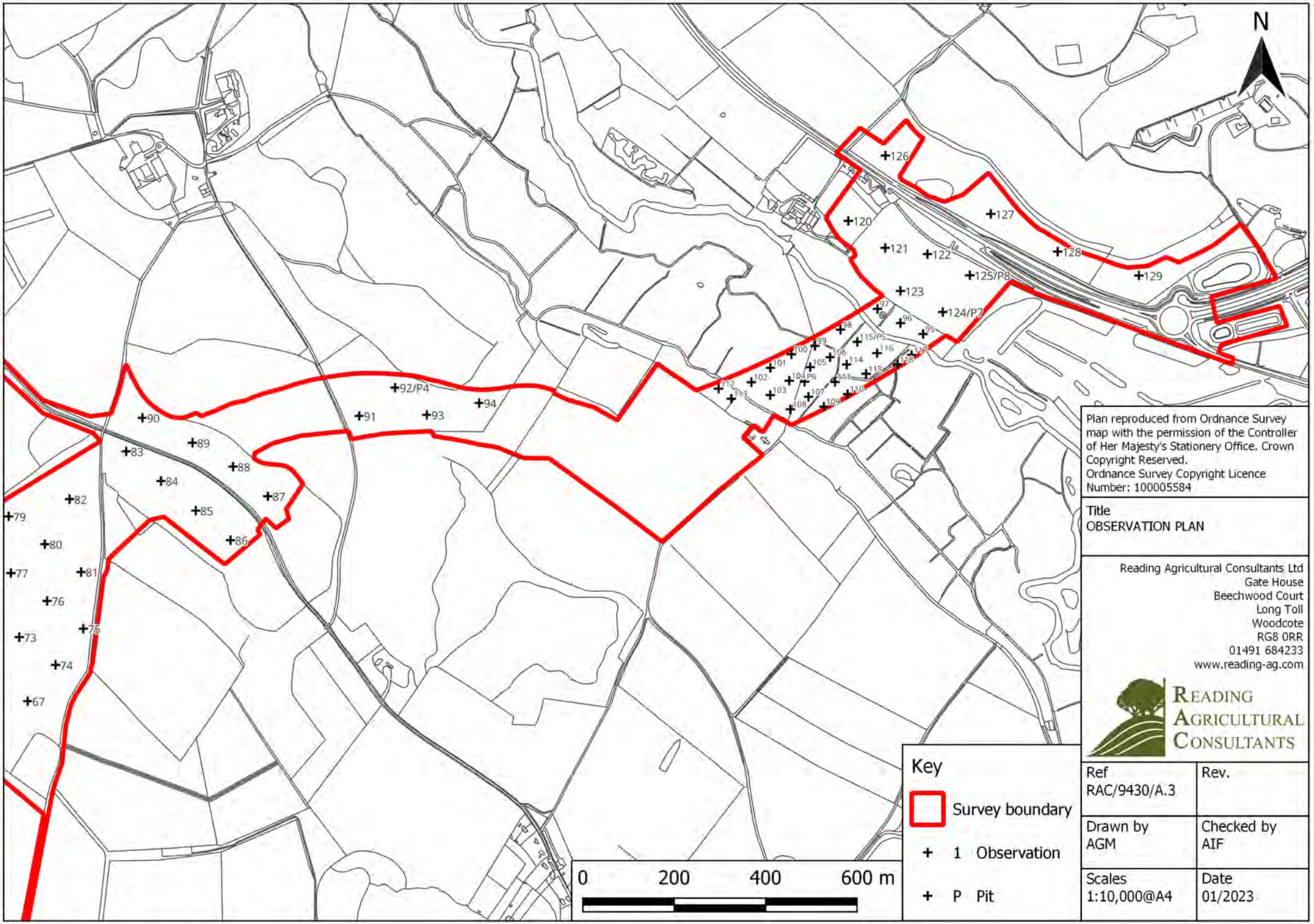

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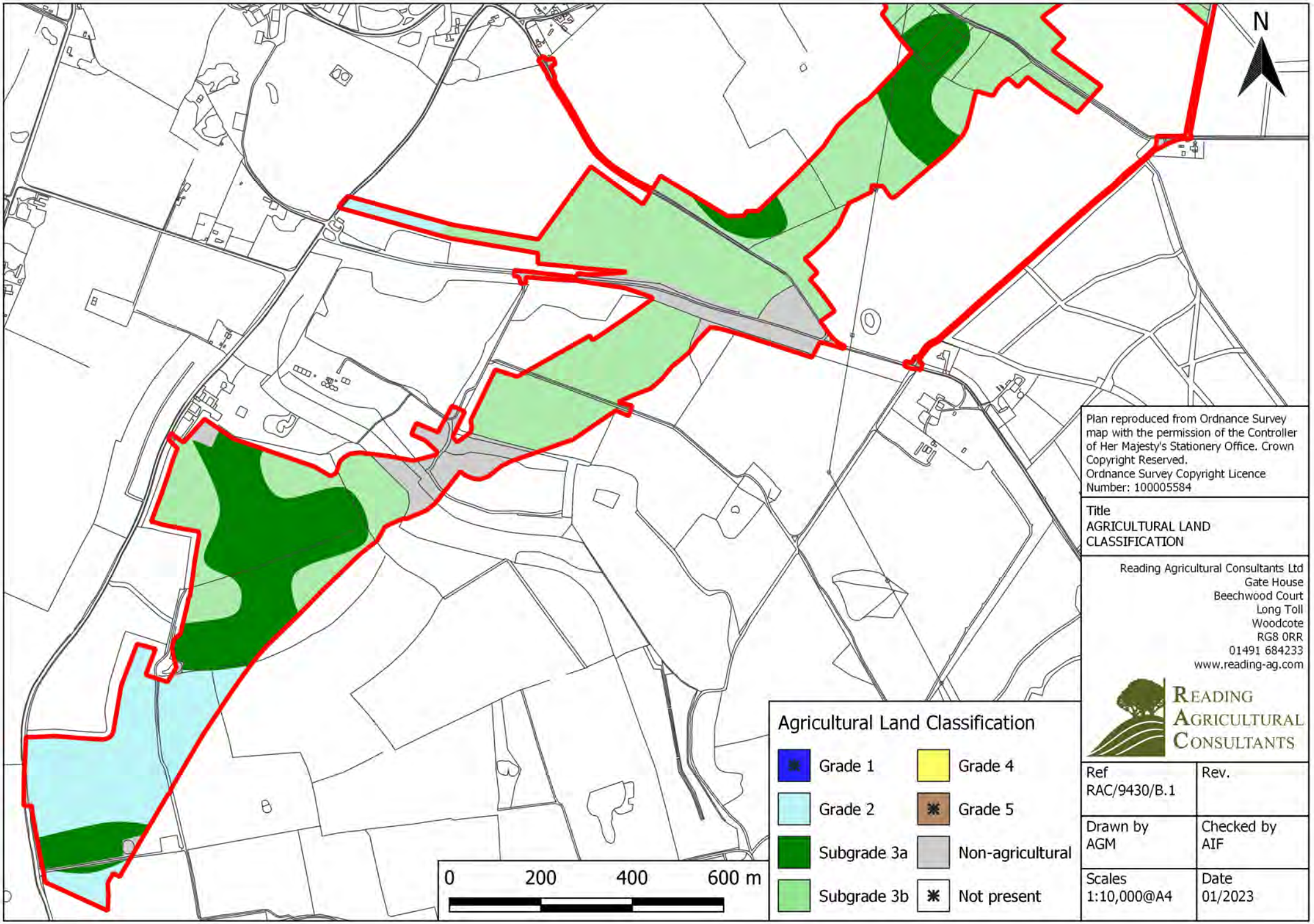

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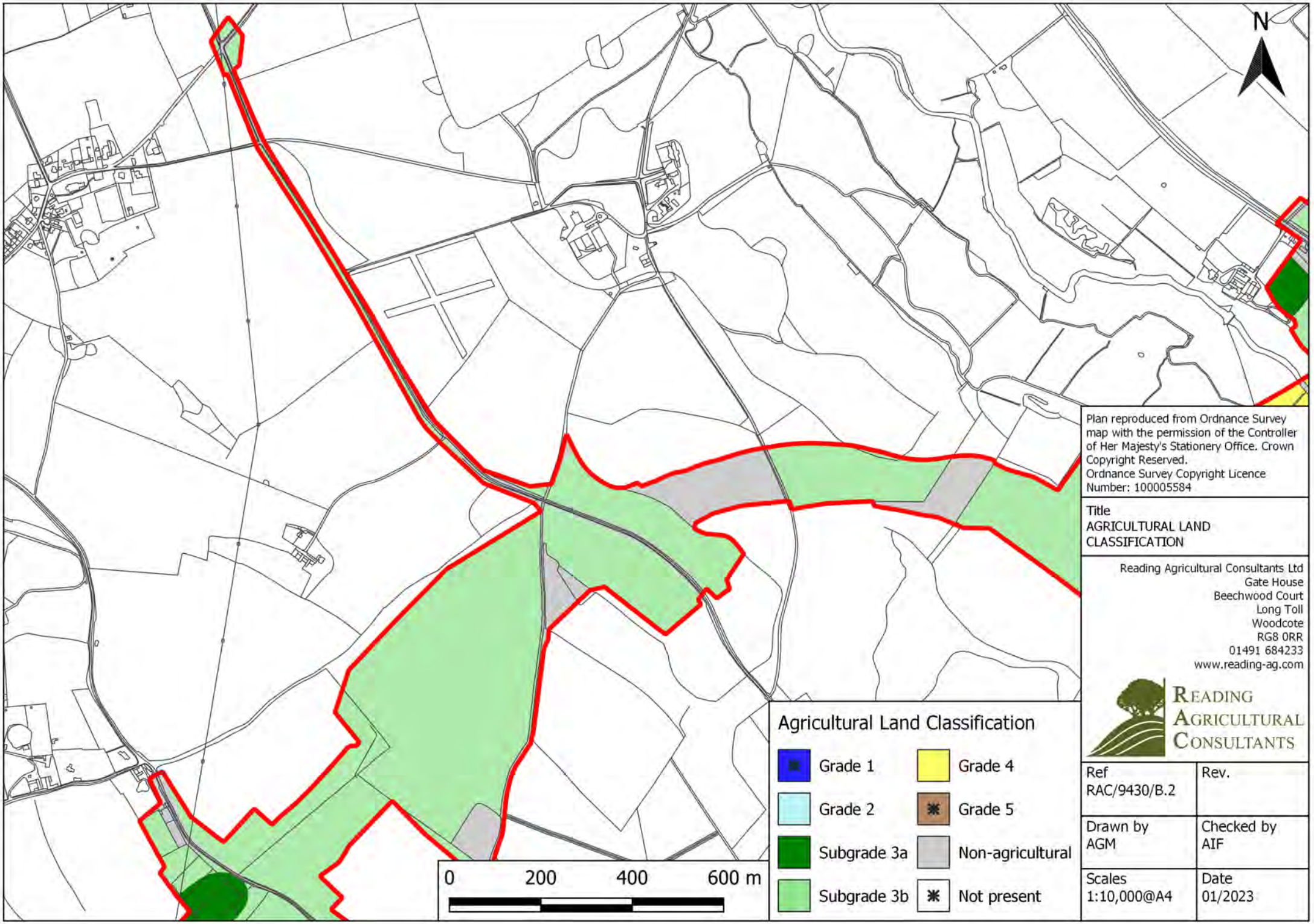

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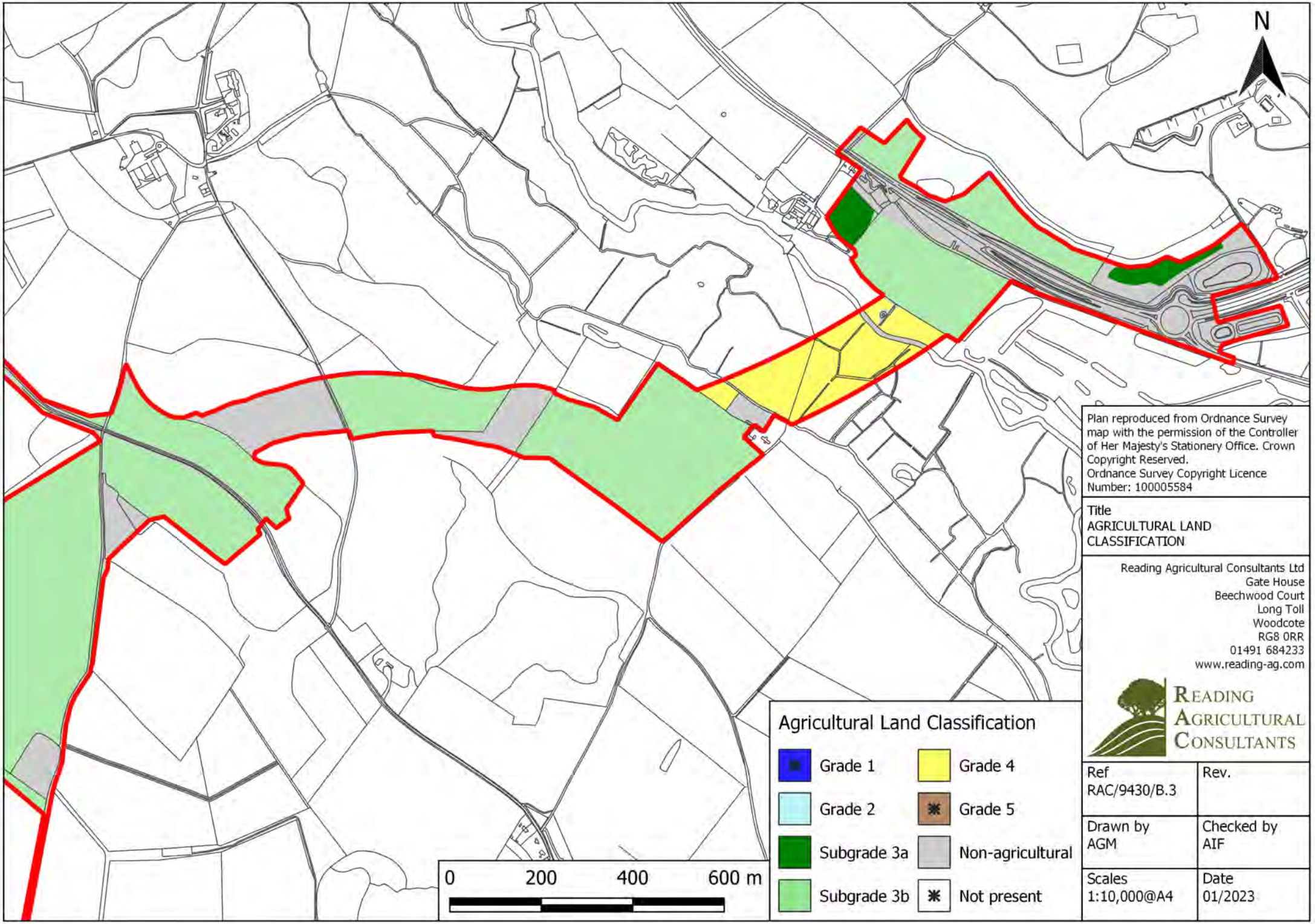

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