
Appendix H: Agricultural Land Assessment

AGR 4 Solar Limited
AGRICULTURAL LAND
CLASSIFICATION REPORT
FOR PRIORY FARM SOLAR ARRAY

Richard Stock BSc.
September 2021

CONTENTS

1.0 INTRODUCTION

2.0 AGROCLIMATIC DATA

3.0 THE SITE

4.0 THE SOILS

5.0 AGRICULTURAL LAND CLASSIFICATION

APPENDIX

1. Schedule of Auger Borings and Soil Pit Descriptions

PLAN

- 1. Soil Survey Locations (W29/1)**
- 2. Agricultural Land Classification (W29/2)**

1. INTRODUCTION

- 1.1 Richard Stock was instructed by Axis to prepare an Agricultural Land Classification report on behalf of AGR 4 Solar Limited for Priory Farm Solar Array, to the east of Great Wymondley, Hertfordshire. The survey area covers approximately 85 hectares.
- 1.2 The report is based on a soil survey which was undertaken between 9th and 11th September 2021 by sampling soil at 80 locations using a 1.2 metre dutch auger and spade and examining two soil profile pits. Further information has been obtained from the MAGIC website and the Soil Survey of England and Wales publications.
- 1.3 The site is located on the west side of the A1(M) approximately 2 km north of Junction 8. It is centred on National Grid Reference TL 222 286 at an average altitude of 94m AOD.
- 1.4 The soil survey details have been interpreted to grade the site in accordance with the Ministry of Agriculture, Fisheries and Food Agricultural Land Classification of England and Wales (Revised Guidelines and Criteria for Grading the Quality of Agricultural Land) published in 1988. The system considers criteria relating to the **climate**, the **site** and the **soil**.

2. AGROCLIMATIC DATA

- 2.1 Agroclimatic data for the site influences the agricultural land classification in respect of growing conditions for crops, and the soil reaction in terms of wetness and drought.
- 2.2 The meteorological office has published agroclimatic data for England and Wales on a five-kilometer grid basis, which can be interpolated to produce data for specific grid points. Although the survey area is over 1km long it is considered that data for the centre of site will be representative of the whole site. The data is shown in the table below.

Grid Reference	TL 222 286
Altitude - ALT	94m
Average Annual Rainfall – AAR (mm)	616
Accumulated Temperature - Jan to June - ATO	1380
Moisture Deficit Wheat - MDMWHT	106
Moisture Deficit Potatoes - MDMPOTS	98
Duration of Field Capacity - FCD	119

- 2.3 The climatic criteria are considered first when classifying land as climate can be overriding irrespective of soil and site conditions. The main parameters used in the assessment of climatic limitation are Average Annual Rainfall (AAR), as a measure of overall wetness, and Accumulated Temperature (ATO, Jan to June), as a measure of the relative warmth of the area.
- 2.4 On the basis of Rainfall and Accumulated Temperature, there is no **climatic** limitation to grade.

3 THE SITE

- 3.1 The site lies on the west side of the A1(M) between Graveley and the villages of Little and Great Wymondley. It comprises 5 gently undulating arable fields lying to the north and south of Graveley Lane. On the north side there are 3 fields which extend from the A1(M) in the east towards Great Wymondley, and on the south side there are 2 fields which extend from the A1(M) in the east towards Little Wymondley.
- 3.2 The site extends to approximately 85 hectares. At the time of survey cereal crops had been harvested from 4 of the fields and peas from the field at the south end. The fields south of Graveley Lane had been cultivated.
- 3.3 All the fields are gently undulating around a central elevation of 94m AOD.
- 3.4 The ground surface generally walked well, but where the land had been cultivated it became sticky after a light shower of rain. The surface stone was predominantly very slight to slight.
- 3.5 On the basis of **site** characteristics relating to gradient, microrelief and flooding there is no limitation to grade.

4 THE SOILS

- 4.1 The soils are described in Soil Survey of England and Wales Bulletin 13 (Soils and Their Use in Eastern England) and identified on the 1:250,000 soil map of England and Wales for Eastern England (Sheet 3). The information given in the Bulletin and maps is limited in several ways and is not a definitive soil description. Firstly, soil patterns in England and Wales are commonly complex and vary greatly in composition. Secondly, the minimum area that can be shown on the map is 0.5 km² and because of this many soil associations include small patches of soils which, at a larger scale, would be correlated with a different map unit. It is therefore noted that within the limitations of the map, the survey area is shown to comprise 3 different Soil Associations. The site is shown as the Hanslope Association.
- 4.2 The Hanslope Association is described as '*Slowly permeable calcareous clayey soils. Some slowly permeable non-calcareous clayey soils. Slight risk of water erosion.*' This association includes soils in the Hanslope and Faulkbourne series, which are similar but the Faulkbourne soils are decalcified in the upper layers.
- 4.3 The soils typically comprise clay or clay loam topsoil overlying slightly stony mottled clay, sometimes with chalk stones at depth. The topsoil is sometimes calcareous but there are significant areas that are decalcified. It is understood that liming is practiced about every 5 years on targeted areas.
- 4.4 The detailed soil survey broadly confirms the published information, particularly in respect of the variable depth to calcareous clay.

5. AGRICULTURAL LAND CLASSIFICATION

- 5.1 The site was graded by applying the survey details to the Ministry of Agriculture, Fisheries and Food Guidelines for Agricultural Land Classification (October 1988).
- 5.2 The current classification system was adopted in 1988 and was a refinement of the previous system. A series of Provisional ALC maps were produced at a scale of 1 inch to 1 mile between 1967 and 1974 based on the earlier classification system and were intended to be for guidance only for strategic planning purposes. A new series of soil maps at a scale of 1:250,000 based on the same information are available on MAGIC, an interactive, geographical information website. The 1:250,000 map for the area suggests that the site falls

- into areas covered by Provisional Grades 2 and 3.
- 5.3 The agricultural land classification system provides a framework for classifying land according to the extent to which it's physical or chemical characteristics impose long-term limitations on agricultural use. The limitations can affect the range of crops that can be grown, the level of yield, the consistency of yield and the cost of obtaining it. The principal factors considered are **Climate, Site and Soil**. These factors, together with interactions between them, form the basis for classifying land into one of five grades. Grade 1 is land of excellent quality and grade 5 is very poor. Grade 3 is divided into sub-grades 3a and 3b since this grade covers about half of England and Wales. The grade or sub-grade is determined by the most limiting factor present.
- 5.4 On this site there is no limitation to grade according to **Climate**.
- 5.5 The assessment of **Site** factors considers the way the topography affects agricultural machinery use and crop production. This site comprises gently undulating land and fundamentally offers no restrictions to agricultural use and cropping potential.
- 5.6 The main **Soil** properties, which may affect cropping potential, are texture, structure, depth, stoniness and chemical fertility. None of the individual properties are limiting to the grade.
- 5.7 The remaining consideration for ALC grading on this site relates to **Interactive** limitations affected by wetness and drought. The soils fall into 2 main soil types determined by the naturally calcareous nature of the soil. The soils are typically medium, sandy or heavy clay loam over slowly permeable clay.
- 5.8 With regard to wetness limitation the ALC grade is determined according to Wetness Class and topsoil texture. The ALC System describes the Wetness Class (WC) graphically by reference to the presence of gleying, the duration of field capacity (FCD) and the depth to a slowly permeable layer (SPL). In this climatic area, where there is gleying above 40cm and a slowly permeable layer above 59cm the profile is wetness class III and deeper than 59cm is Wetness Class II. WC III with non-calcareous medium and sandy clay loam topsoil is grade 3a but if the topsoil is naturally calcareous it is up-lifted to grade 2. Heavy clay loam topsoil in WC III is grade 3b but is up-graded to 3a if it is naturally calcareous. In WC II calcareous and non-calcareous medium and sandy clay loam topsoil are both grade 2. Non-calcareous heavy clay loam in WC II is grade 3a, which is up-lifted to grade 2 if it is naturally calcareous.
- 5.9 Droughtiness is assessed by soil Moisture Balance (MB), which is calculated on the basis of crop-adjusted Available Water Capacity of the soil (AP), and Moisture Deficit (MD). AP gives a measure of the amount of water held in the soil which is available to the crop, and the MD part of the calculation is a crop related variable of the balance between rainfall and potential evapotranspiration. The Moisture Balance is the Available Water Capacity less the Moisture Deficit ($MB = AP - MD$). Moisture balance calculations have been made on representative soil profiles, which confirm a limitation to Grade 2.
- 5.10 The Agricultural Land Classification Plan reference W29/2 shows the distribution of grades 2, and 3a which is summarised in the table below. Within the Grade 3a land there are individual survey locations of grades 2 and 3b which are too small to map independently.

Grade	Hectares	%
2	27.4	32.2
3a	57.6	67.8
Total	85	100

APPENDIX 1

Schedule of Auger Borings and Soil Pit Descriptions

KEY

Colour

		munsell colour
db	dark brown	10YR3/3 and 7.5YR3/3
vdb	very dark brown	10YR2/2
b	brown	10YR4/3 and 7.5YR4/4
lyb	light yellowish brown	10YR6/4
dgb	dark greyish brown	10YR4/2
vdgb	very dark greyish brown	10YR3/2
dyb	dark yellowish brown	10YR4/6
ob	olive brown	2.5y4/3

Mottling and Gleying

0	none
x	few and faint
xx	common
xxx	many
sgmc	severe gley and manganese concretions

Texture

hcl	heavy clay loam
mcl	medium clay loam
scl	sandy clay loam
c	clay

Observations

nc	non calcareous
vs. calc	very slightly calcareous
calc	calcareous
v.calc	very calcareous
ex.calc	extremely calcareous
spl	slowly permeable layer
sgmc	severe gley and manganese concretions

**SCHEDULE OF AUGER BORINGS AND PROFILE PITS
WYMONDLEY SOLAR FARM**

No	grid ref TL	depth cm	colour	texture	Stone %	gley	Observations	wc	alc grade
1	22500	0-28	B	Mcl/scl	5	0	Vs.calc	III	2/3a
	28496	28-70 70	Dyb/yb	c	2	xx	Nc. Firm		
2	22595	0-30	Db	Mcl/scl	5	0	Nc	III	3a
	28513	30-45	Dyb	Hcl	2	0	Nc		
		45-65 65	Dyb/yb	c	0	Xx(x)	Nc Struck stone		
3	22705	0-30	Db	scl	2	0	Nc	III	3a
	28510	30-58	Dyb	Hcl	2	Xx	Nc. firm		
		58-60 60	dyb	c	0	xx	Calc. firm		
4	22688	0-30	Db	scl	2	0	Nc	III	3a
	28598	30-75+	yb	c	2	xxx	Nc. sgmc		
5	22596	0-30	Db	Scl	2	0	Nc	III	3a
	28588	30-45	Dyb	Hcl	2	Xx	Nc. firm		
		45-50	Dyb	C	0	Xxx	Nc. sgmc		
		50-60 60	dyb	c	0	xxx	Calc impenetrable		
6	22499	0-30	Db	Scl	2	X	Nc	III	3a
	28591	30-45 45	dyb	Hcl/c	2	xx	Nc Struck stone		
7	22526	0-25	Db	Scl	2	0	Nc	III	3a
	28678	25-45 45	dyb	c	0	Xxx	Nc Too firm to auger		
8	22601	0-30	Db	mcl	2	0	Nc	III	3a
	28727	30-45	Dyb	c	2	Xxx	Nc. Sgmc		
		45-70+	dyb	c	2	xx	Calc. mn		
9	22594	0-30	Db	Mcl	2	X	Nc	III	3a
	28842	30-50 50	dyb	c	2	xxx	Vs.calc. sgmc Too firm to auger		
10	22501	0-30	Db	Mcl	2	0	Nc	III	3a
	28901	30-40	dyb	Hcl	5	X	Nc. gravelly		
		40-70+		c	0	xxx	Nc. sgmc		
11	22402	0-28	Vdgb	Hcl	1	0	Nc	III	3b
	28911	28-60+	dyb	c	0	xxx	Nc. sgmc		
12	22308	0-30	Vdgb	Hcl	1	0	Calc	III	3a
	28913	30-60+	dyb	c	2	xxx	Calc. sgmc		
13	22298	0-30	Db/dgb	Hcl	2	0	Nc	III	3b
	28812	30-45	Dyb	Hcl	2	X	Nc		
		45-60	Dyb	C	0	Xxx	Nc		
		60-80+	dyb	c	0	xxx	calc		

No	grid ref TL	depth cm	colour	texture	Stone %	gley	Observations	wc	alc grade
14	22399	0-30	Dgb	Scl	2	0	Nc	III	3a
	28811	30-50	Dyb	C	2	Xx	Nc. spl		
		50-70+	dyb	c	0	xx	calc		
15	22486	0-30	Db/dgb	Scl	2	0	Nc	III	3a
	28791	30-50	Dyb	C	2	Xx	Nc. Spl		
		50-70+	dyb	c	2	xx	calc		
16	22384	0-28	Dgb	Scl/mcl	2	0	Calc	II	2
	28700	28-65+	dyb	c	2	x	calc		
17	22295	0-28	Dgb	Scl/mcl	2	0	Calc	II	2
	28695	28-65+	dyb	c	2	x	calc		
18	22296	0-28	Db	Scl/mcl	2	0	Calc	II	2
	28592	28-48	dyb	Scl/mcl	2	x	Calc		
		48					Struck stone		
19	22387	0-28	Dgb	Scl/mcl	2	0	Calc	II	2
	28593	28-65+	dyb	c	2	x	calc		
20	22190	0-28	Db	Scl	2	0	Nc	II	2
	28598	28-75	Dyb	Sc/scl	0	X(x)	Nc. firm		
		75-110	dyb	c	2	Xx(x)	calc		
21	22092	0-28	Db	Hcl/scl	2	0	Calc	II?	2
	28598	28-48	Dyb	c	2	X(x)	Calc		
		48	dyb				Struck stone.		
22	21993	0-25	Vdgb	Hcl/scl	2	0	Nc	II	3a/2
	28592	25-45	dyb	c	2	X(x)	Calc. chalk stones		
		45					impenetrable		
23	21896	0-28	Vdgb	Hcl/scl	2	0	Vs.calc	III	3a
	28587	28-75+	lob	c	2	xxx	Calc. sgmc		
24	21895	0-28	Db	Scl	2	0	Nc	III	3a
	28503	28-45	Dyb	C	2	X	Nc		
		45-55	Dyb	C	2	Xx	Calc		
		55-75+	dyb	c		xxx	Calc. sgmc		
25	21887	0-28	B	Hcl	2	0	Nc	III	3b
	28693	28-40	Dyb/ob	C	2	Xx	Nc. firm		
		40-50	ob	C	0	xx	Calc. firm		
		50					Too dry to auger		
26	21980	0-28	Dgb	Mcl/scl	2	0	Nc	III	3a
	28691	28-50	Ob	C	2	Xxx	Nc. sgmc		
		50-70+	ob	c	0	xxx	Calc. sgmc		
27	22085	0-28	Dgb	Mcl/scl	2	0	Calc	II	2
	28693	28-70	Dyb/ob	c	2	x	Calc		
		70					Too firm to auger		
28	22192	0-28	Db	Scl/hcl	2	0	Calc	II	2
	28698	28-70+	lob	c	2	x	calc		

No	grid ref TL	depth cm	colour	texture	Stone %	gley	Observations	wc	alc grade
29	22207	0-28	Db	Hcl/scl	2	0	Calc	III	3a/2
	28795	28-35	Dyb	Sc	2	X	Nc		
		35-70	Dyb	Sc	0	Xx	Vs.calc. mn spl		
		70+	ob	c	0	xx	calc		
30	22112	0-28	Db	ScI	2	0	Nc	III	3a
	28788	28-58	Dyb/ob	C	0	Xx	Vs.calc. spl		
		58-75+	ob	c	0	xx			
31	22010	0-28	Db	ScI	2	0	Nc	III	3a
	28805	28-55	Dyb/ob	C	0	Xxx	Calc. sgmc		
		55-75+	ob	c	0	xx	Calc.		
32	21909	0-28	Dgb	Hcl	2	0	s.calc	III	3a
	28800	28-60	Dyb/ob	C	2	xx	calc. firm. Spl.		
		60					Too firm to auger		
33	21857	0-25	Vdgb	Mcl/hcl	2	0	Nc	III	3a
	28895	25-40	dyb	c	0	xx	Calc		
		40					Struck stone		
34	21974	0-25	Db/dgb	Mcl/hcl	2	0	Nc	III	3a
	28901	25-40	dyb	c	0	xxx	Nc. Sgmc		
		40					Struck stone		
35	22092	0-28	Db	ScI	2	0	Nc	III	3a
	28907	28-45	Dyb	C	2	Xxx	Nc. sgmc		
		45-70+	ob	c	2	xx	Calc. mn ch stones		
36	22188	0-28	Db	Mcl	2	0	Vs.calc	III	3a/2
	28913	28-45	Dyb	C	2	Xxx	s.calc. sgmc		
		45-65	ob	c	2	x	calc. mn. Ch stones		
		65					struck stone		
37	22188	0-28	Db	mcl	2	0	Nc	III	3a
	29009	28-45	Dyb	mcl	2	X	Nc		
		45-75+	dyb	c		xxx	Nc. sgmc		
38	22089	0-30	Db	Mcl/scl	2	0	Nc	III/II	3a/2
	29003	30-58	Dyb	Mcl/scl	2	X	Nc		
		58-75	dyb	c		xxx	Nc. sgmc		
39	21996	0-30	Db	ScI	2	X	Nc	III	3a
	28998	30-48	Dyb	ScI/sc	2	X	Nc		
		48-65	dyb	c		Xxx	Nc. Sgmc		
		65					Struck stone		
40	21890	0-28	Dgb	ScI/mcl	2	0	Nc	III	3a
	28992	28-70	dyb	c		xx	Nc. Mn. Spl		
		70					Too firm to auger		
41	22386	0-30	Db	ScI	5	0	Nc	II	2
	28395	30-60	dyb	scl	2	x	Nc. Ch stones		
		60					Too dry to auger Assume wc II		

No	grid ref TL	depth cm	colour	texture	Stone %	gley	Observations	wc	alc grade
42	22484 28394	0-28 28-40 40	Db ob	Mcl/scl c	7 7	0 0	Calc Ex.calc Struck stone Assume wcII	II	2
43	22596 28391	0-28 28-40 40-60+	B Dyb dyb	ScI ScI c	2 2	0 X xx	Nc Nc Nc. Mn. spl	III	3a
44	22773 28296	0-28 28-40 40-60 60	Db Dyb dyb	ScI C c	2 2 2	0 Xx xx	Calc Ex.Calc Calc Struck stone. Assume wcIII	III	2
45	22681 28291	0-28 28-60+	b/db dyb	Mcl c	1 2	0 xxx	s.calc calc	III	2/3a
46	22585 28298	0-30 30-45 45-50 50	Db Dyb dyb	ScI ScI c	1 2 2	0 Xx Xxx	Nc Nc. Tight packed s.calc. spl too firm to auger	III	3a
47	22509 28300	0-28 28-45 45	Db dyb	ScI scl	2 2	0 X(x)	Vs.calc Vs.calc Too firm to auger. Assume wcIII	III	2/3a
48	22412 28299	0-30 30-60 60	Db dyb	ScI/mcl ScI/mcl	3 1	0 x	Nc Nc Dry and tight. Assume wcII	II	2
49	22310 28206	0-30 30-55 55	Db dyb	Mcl c	2 2	0 X(x)	Nc Calc Too hard to auger under tree. Assume wII	II	2
50	22205 28204	0-28 28-70 70	Dgb dyb	Hcl/scl c	1 0	0 x	Calc Nc Too hard to auger	II	2
51	22508 28205	0-28 28-40 40	Db dyb	ScI c	2 2	0 xx	Calc Calc Impenetrable. Assume wcII	II	2
52	22598 28207	0-28 28-60+	Db dyb	ScI/mcl c	2 2	0 xx	Calc Calc. firm. Spl	III	2
53	22692 28202	0-28 28-50 50	Db Dyb	ScI c	2 2	0 xxx	Calc Calc. spl Struck stone	III	2

No	grid ref TL	depth cm	colour	texture	Stone %	gley	Observations	wc	alc grade
54	22306	0-28	b/db	Mcl	1	0	Calc	I	1
	28095	28-90	dyb	Mcl	0	0	Calc		
		90-110	dyb	vfsc	0	0	calc		
55	22402	0-30	Vdgb	Hcl/mcl	0	0	Calc	III	3a/2
	28085	30-60	Dyb/ob	c	0	xxx	Calc. sgmc		
		60					Struck stone		
56	22498	0-28	Vdgb	Hcl/mcl	2	0	Calc	II	2
	28098	28-45	ob	c	2	x	Calc		
		45					Struck stone. Assume wcII		
57	22593	0-30	Db	Sc	2	0	Nc	II	2
	28109	30-75	Dyb	Sc	1	X	Nc		
		75-90	dyb	c	1	xx	s.calc		
58	22689	0-28	Db	Mcl/sc	2	0	Nc	III	3a
	28102	28-60	Dyb/ob	c	2	xxx	Nc.severe gley firm		
		60					Struck stone		
59	22692	0-32	Db	Mcl	1	X	Nc	III	3a
	28009	32-65	dyb	c	1	xxx	Nc. Spl		
		65					Struck stone		
60	22600	0-30	Db	Sc	1	0	Nc	III	3a
	28013	30-45	dyb	Sc/sc	1	xx	Nc. Firm mn spl		
		45					Struck stone		
61	22513	0-28	Db	Sc	1	X	Nc	II	2
	28005	28-62	Dyb	Sc	1	X	Nc		
		62-70	Dyb	Sc	1	X	Nc		
		70-90	dyb	Sc/sc		xx	Calc. spl		
62	22411	0-28	Db	Sc	2	X	Nc	III	3a
	28007	28-40	Dyb	Sc	2	X	Nc		
		40-60	Dyb	C		Xx	Nc. Mn. Spl?		
		60+	ob	c		x	calc		
63	22363	0-28	Db	Sc	1	X	Nc	II/III	3a/2
	27904	28-58	Dyb	C/hcl	1	X	Nc. mn		
		58-65	dyb	c	1	xxx	Nc. Sgmc		
		65					impenetrable		
64	22455	0-28	Db	Mcl	2	0	Nc. limed	III	3a
	27914	28-50	dyb	hcl	2	xxx	Nc. Sgmc. Tight		
		50					impenetrable		
65	22554	0-28	Db	Mcl/hcl	2	X	Nc	III	3a/3b
	27900	28-60+	dyb	c	2	xxx	Nc. sgmc		
66	22671	0-28	Db	Mcl/sc	2	X	Nc	III	3a
	27897	28+	dyb	c	2	xxx	Nc. sgmc		
67	22602	0-28	Db	Sc	2	X	Nc	III	3a
	27801	28+	dyb	c	2	xxx	Nc. sgmc		

No	grid ref TL	depth cm	colour	texture	Stone %	gley	Observations	wc	alc grade
68	22508	0-28	Db	Scl	3	X	Limed	III	3a
	27801	28+	dyb	c	2	xxx	Nc. sgmc		
69	22413 27803	0-30	Db	Mcl	2	X	Limed	III	3a
		30-70	Dyb	Mcl	1	X(x)	Calc		
		70+	dyb	c		xxx	Calc. sgmc		
70	22319 27803	0-28	Db	Mcl	2	X	Nc	III	3a
		28-55	Dyb	Hcl	2	X(x)	Nc		
		55-70+	dyb	c		xxx	Nc. Mn. firm		
71	22215 27806	0-28	Db	Scl/mcl	2	0	Nc	III	3a
		28-60	dyb	c	2	xxx	Nc. Sgmc		
		60					Struck stone		
72	22199 27711	0-28	Db	Mcl/scl	2	X	Nc	III	3a
		28-60	Dyb/ob	c	2	xxx	Calc. sgmc		
		60					Struck stone		
73	22294 27706	0-28	Db	Scl/mcl	2	0	Nc	III	3a
		28-60	dyb	c	2	xxx	Nc. Sgmc		
		60					Struck stone		
74	22400 27701	0-28	Db	Scl	1	X	Nc	III	3a
		28-45	Dyb	Scl	1	X	Nc		
		45-70+	dyb	c		xxx	Nc. Sgmc. spl		
75	22488 27691	0-28	Dgb	Mcl/scl	2	0	Calc	III	2
		28-50	ob	c	2	xxx	Calc. mn. Firm		
		50					Struck stone		
76	22584 27686	0-28	Dgb	Scl/mcl	3	0	Vs.calc	III	3a
		26-60+	ob	c	2	xx	Calc. mn. spl		
77	22606 27609	0-28	Dgb	Scl/mcl	2	0	Nc	III	3a
		28-45	Dyb	Mcl	2	X	Nc		
		45+	dyb	c		xxx	Nc. spl		
78	22502 27608	0-28	Dgb	Mcl/scl	2		Nc	II	2
		28-70+	ob	c	2	x	nc		
79	22409 27608	0-28	Dgb	Scl	2	X	Nc	III	3a
		28+	dyb	c	2	xxx	Nc. sgmc		
80	22310 27605	0-28	Db	Scl	1	X	Nc	III	3a
		28-45	Dyb	Scl	1	X	Nc		
		45-70+	dyb	c		xxx	Nc. Sgmc. spl		

SOIL PROFILES

Pit A Auger 20	0-28	dark brown (10yr3/3) non-calcareous medium clay loam to sandy clay loam, with evidence of recent liming. Very slight stone. Occasional earthworm. Friable, moderate medium and fine subangular blocky. Cultivated surface. Good rooting
	28-75	dark yellow brown (10yr3/6) non-calcareous sandy clay loam. Moderate coarse subangular blocky with faint, occasionally common distinct ochreous mottles. Remnant roots. Permeable.
	75-110	Dark yellow brown (10yr4/6) calcareous clay with 2% chalk stones. Common distinct ochreous mottles. Firm, moderate coarse angular blocky with occasional fine fibrous root at depth. <0.5% biopores. Slowly permeable layer.
		Pit ends.
	Wetness	<i>slowly permeable layer from 75cm assigned to Wetness Class II in combination with non-calcareous medium clay loam topsoil is wetness grade 2</i>
	Drought	<i>Calculated to 120cm MB WHT +29, MB POTS +11 Drought grade 2</i>
Overall	Grade 2	

Pit B Auger 74	0-28	Dark brown (10yr3/3) non-calcareous sandy clay loam. Limed. Occasional earthworm. Very slight stone (<2% est.). Friable moderate fine subangular blocky. Cultivated surface. Good rooting.
	28-65	Dark greyish brown to olive brown (10yr4/3 to 2.5y4/3) slightly calcareous clay. Moderate coarse angular blocky. Remnant fine fibrous roots. Very firm <0.5% biopores. Slowly permeable layer. Pit ends.
	Wetness	<i>slowly permeable layer from 28cm assigned to wetness class III in combination with non-calcareous sandy clay loam topsoil is wetness grade 3a</i>
	Drought	<i>Calculated to 120cm MB WHT +16, MB POTS +2 Drought grade 2</i>
	Overall	<i>Grade 3a</i>

PLANS

- 1. Soil Survey Locations (W29/1)**
- 2. Agricultural Land Classification (W29/2)**



CLIENT

AGR 4 Solar Limited

SITE

Priors Farm Solar Array

TITLE

Soil Survey Locations

SCALE NTS

REF W29/1

DATE September 2021

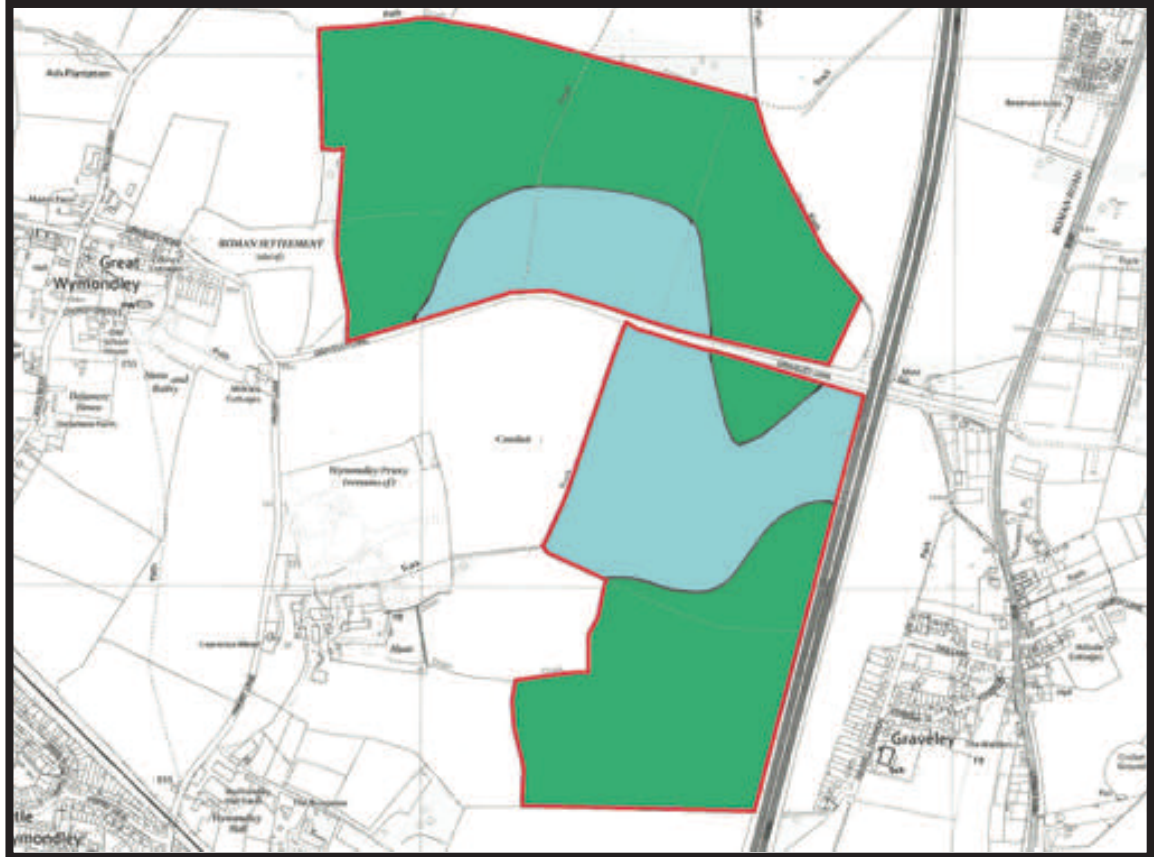


LEGEND

Auger location 

Pit location 

Survey boundary 



CLIENT

AGR 4 Solar Limited

SITE

Prory Farm Solar Array

TITLE

Agricultural Land Classification

SCALE NTS

REF W29/2

DATE September 2021



LEGEND

Grade 2



Grade 3a



Survey boundary

