

Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 9.10: Wintering Bird Survey Report

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Annexes

Annex number	Annex title
A	Desk study
В	Figures





Glossary

Term	Meaning
The Applicant	SolarFive Ltd
The Project	Botley West Solar Farm

Abbreviations

Abbreviation	Meaning		
BAP	Biodiversity Action Plan		
BoCC	Birds of Conservation Concern		
вто	British Trust for Ornithology		
CIEEM	Chartered Institute of Ecology and Environmental Management		
ESRI	Environmental Systems Research Institute		
GIS	Geographic Information System		
NERC	Natural Environment and Rural Communities		
PDA	Personal Digital Assistant		
SPA	Special Protection Areas		
WBS	Wintering Bird Survey		





1 Introduction

1.1 Overview

- 1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive).
- 1.1.2 The purpose of this technical report is to present the methodology and results of the desk study for the Project. The results of this report have been used to inform Chapter 9: Ecology and Nature Conservation in Volume 1 of the ES [EN010147/APP/6.3].

1.2 Legislation

- 1.2.1 Relevant legislation and policy guidance are referred to throughout this report where appropriate. Their context and application are explained in the relevant sections of this report.
- 1.2.2 The relevant articles of legislation are:
 - The Conservation of Habitats and Species Regulations (Amendment) (EU Exit) 2019;
 - The Wildlife and Countryside Act 1981 (as amended);
 - The Natural Environment and Rural Communities (NERC) Act 2006; and
- 1.2.3 All birds, their nests and eggs are afforded protection under the Wildlife and Countryside Act 1981, as updated by the Countryside and Rights of Way Act 2000. It is an offence to:
 - Intentionally kill, injure, or take any wild bird;
 - Intentionally take, damage, or destroy the nest of any wild bird while it is in use or being built; and
 - Intentionally take or destroy the egg of any wild bird.
- 1.2.4 Reference is not made to species afforded special protection under Schedule 1 of the Wildlife and Countryside Act (1981) as the protection measures only apply to these species within the breeding season.





2 Methodology

2.1 Desk Study

Search Area

2.1.1 The desk study obtained records of relevant bird species within a 2 km radius of the Site boundary.

Data Request

- 2.1.2 A data request was made to Thames Valley Environmental Records Centre (TVERC) as part of the ecology desk study, the full results of which are presented in Appendix 9.1 of Volume 3 of the ESature Conservation. The results of the desk study pertaining to birds are presented in Appendix A.
- 2.1.3 Records requested included species designated as being of principal importance for conservation in England under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 (S41 species), legally protected species and bird species listed on the Birds of Conservation Concern (BoCC) 5 (Stanbury et al., 2021) Red list (species of high conservation concern) and Amber list (species of moderate conservation concern).
- 2.1.4 The legal and conservation status of the species for which records were received was determined using the Spreadsheet of Conservation Designations for UK Taxa (Joint Nature Conservation Committee (JNCC), 2018).

2.2 Field survey

- 2.2.1 The wintering bird surveys were based on a transect / 'walkover' methodology as outlined in Bibby et al. (2000) and Gilbert et al. (1998).
- 2.2.2 The transect route was designed to cover the area boundaries, predominantly all field margins and areas of high-value habitat (e.g., woodland edges, treelines, and hedgerows), to include all areas of the site within 50-100m, where possible.
- 2.2.3 On each visit, the route was walked at a slow pace with start and finish times noted. All birds seen and heard were recorded directly onto an ArcGIS base map using ESRI software on hand-held PDA devices, with a 1:10,000 scale Ordnance Survey base map of the study area (and adjacent land). A fresh map was used for each survey. Survey routes were mapped, and the direction walked alternated on each visit, to ensure that all areas were covered at various times of morning across the duration of the survey.
- 2.2.4 Registrations of birds were recorded using standard British Trust for Ornithology (BTO) one and two-letter species codes. All bird species were recorded and mapped across the whole site boundary, where accessible. Due to the size of the site, it was split into smaller areas (1-16 and Denman's Farm) and numbered accordingly.





2.2.5 Surveys for wintering birds were undertaken between October 2022 – March 2023, and October 2023 – March 2024, during optimal conditions over the dates shown in Table 1.

Table 1: Wintering bird survey dates 2022, 2023 and 2024.

2022 - 2023			Vi	sit		
Area	1	2	3	4	5	6
1	31/10/22	10/11/22	01/12/22	24/01/23	10/02/23	08/03/23
2	31/10/22	17/11/22	08/12/22	25/01/23	10/02/23	08/03/23
3 & 4	31/10/22	18/11/22	15/12/22	26/01/23	21/02/23	14/03/23
5	24/10/22	18/11/22	20/12/22	21/01/23	22/02/23	13/03/23
6	22/10/22	19/11/22	22/12/22	15/01/23	12/02/23	12/03/23
7	29/10/22	20/11/22	19/12/22	21/01/23	18/02/23	19/02/23
8	30/10/22	13/11/22	16/12/22	17/01/23	20/02/23	15/03/23
9	28/10/22	29/11/22	20/12/22	20/01/23	22/02/23	23/03/23
10 & 12	24/10/22	28/11/22	15/12/22	24/10/23	10/02/23	21/03/23
11	27/10/22	24/11/22	08/12/22	23/01/23	08/02/23	20/03/23
13	21/10/22	25/11/22	22/12/22	16/01/23	07/02/23	16/03/23
14	19/10/22	02/11/22	14/12/22	05/01/23	03/02/23	01/03/23
15	N/A	N/A	N/A	25/01/23	23/02/23	21/03/23
16	N/A	N/A	N/A	N/A	N/A	N/A
Denman's Farm	18/10/22	09/11/22	28/12/22	31/01/23	22/02/23	15/03/23
	023 - 2024 Visit					
2023 - 2024			Vi	sit		
2023 - 2024 Area	1	2	Vi	sit 4	5	6
	1 18/10/23	2 28/11/23			5 26/02/24	6 28/03/24
Area			3	4		
Area 1	18/10/23	28/11/23	3 20/12/23	4 25/01/24	26/02/24	28/03/24
Area 1 2	18/10/23 19/10/23	28/11/23 10/11/23	3 20/12/23 13/12/23	4 25/01/24 29/01/24	26/02/24 16/02/24	28/03/24 01/03/24
Area 1 2 3 & 4	18/10/23 19/10/23 27/10/23	28/11/23 10/11/23 23/11/23	3 20/12/23 13/12/23 20/12/23	25/01/24 29/01/24 24/01/24	26/02/24 16/02/24 23/02/24	28/03/24 01/03/24 08/03/24
Area 1 2 3 & 4 5	18/10/23 19/10/23 27/10/23 19/10/23	28/11/23 10/11/23 23/11/23 17/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23	25/01/24 29/01/24 24/01/24 10/01/24	26/02/24 16/02/24 23/02/24 23/02/24	28/03/24 01/03/24 08/03/24 11/03/24
Area 1 2 3 & 4 5 6	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23	25/01/24 29/01/24 24/01/24 10/01/24 09/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24
Area 1 2 3 & 4 5 6 7	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24
Area 1 2 3 & 4 5 6 7 8	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23 21/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23 17/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23 17/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24 10/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24 28/03/24
Area 1 2 3 & 4 5 6 7 8 9	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23 21/10/23 10/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23 17/11/23 28/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23 17/12/23 21/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24 09/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24 16/02/24 05/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24 28/03/24 04/03/24
Area 1 2 3 & 4 5 6 7 8 9 10 & 12	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23 21/10/23 10/10/23 27/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23 17/11/23 28/11/23 09/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23 17/12/23 21/12/23 06/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24 09/01/24 10/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24 16/02/24 05/02/24 20/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24 28/03/24 04/03/24 11/03/24
Area 1 2 3 & 4 5 6 7 8 9 10 & 12 11	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23 21/10/23 10/10/23 27/10/23 28/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23 17/11/23 28/11/23 09/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23 17/12/23 21/12/23 06/12/23 12/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24 09/01/24 10/01/24 16/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24 16/02/24 05/02/24 20/02/24 23/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24 28/03/24 04/03/24 11/03/24 19/03/24
Area 1 2 3 & 4 5 6 7 8 9 10 & 12 11 13	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23 21/10/23 10/10/23 27/10/23 28/10/23 23/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23 17/11/23 28/11/23 09/11/23 29/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23 17/12/23 21/12/23 06/12/23 12/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24 10/01/24 10/01/24 16/01/24 21/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24 16/02/24 05/02/24 20/02/24 23/02/24 13/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24 28/03/24 04/03/24 11/03/24 19/03/24 21/03/24
Area 1 2 3 & 4 5 6 7 8 9 10 & 12 11 13 14	18/10/23 19/10/23 27/10/23 19/10/23 21/10/23 25/10/23 21/10/23 10/10/23 28/10/23 23/10/23 10/10/23	28/11/23 10/11/23 23/11/23 17/11/23 15/11/23 08/11/23 17/11/23 28/11/23 09/11/23 29/11/23 07/11/23	3 20/12/23 13/12/23 20/12/23 07/12/23 08/12/23 01/12/23 17/12/23 21/12/23 06/12/23 12/12/23 04/12/23	4 25/01/24 29/01/24 24/01/24 10/01/24 09/01/24 10/01/24 10/01/24 10/01/24 16/01/24 21/01/24 12/01/24	26/02/24 16/02/24 23/02/24 23/02/24 19/02/24 07/02/24 16/02/24 05/02/24 20/02/24 23/02/24 13/02/24 29/02/24	28/03/24 01/03/24 08/03/24 11/03/24 13/03/24 05/03/24 28/03/24 04/03/24 11/03/24 19/03/24 21/03/24 22/03/24

2.2.6 On completion of the surveys, analysis maps were produced for each species afforded special protection or of conservation interest, consisting of





- all registrations recorded during the surveys. From the species maps, the number of birds present during each survey visit was calculated.
- 2.2.7 The wintering bird survey was completed by suitably experienced professional ornithologists and the assessment was carried out by RPS senior ecological staff with expertise in the assessment of site sensitivity for birds and Environmental Impact Assessments.

2.3 Assessment Criteria

- 2.3.1 The assessment of the wintering bird community at Botley West focuses on species that are afforded special statutory protection, or those included on one, or more, of the lists of species of conservation interest, these include:
 - Species listed on Annex 1 of the EC Birds Directive (Directive 2009/147/EC);
 - Species listed under Section 41 of the NERC Act (2006);
 - Species included in the Birds of Conservation Concern (BoCC) Red and Amber Lists for the UK (Stanbury et al., 2021); and
 - Species occurring in nationally, regionally, or locally important numbers.
- 2.3.2 Annex 1 species are those for which the UK Government are required to take special measures, including the designation of Special Protection Areas (SPAs), to ensure the survival and reproduction of these species throughout their area of distribution.
- 2.3.3 The NERC Act (2006) list of Species of Principal Importance is used to guide decision-makers such as public bodies, including local and regional authorities, in implementing their duty under Section 41 of the Act; under Section 41 every public authority (e.g., a local authority or local planning authority) must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity. In addition, with regard to those species on the list of Species of Principal Importance prepared under Section 41, the Secretary of State must:
 - Take such steps as appear to the Secretary of State to be reasonably practicable to further the conservation of the living organisms and types of habitats included in any list published under this section; or
 - b. Promote the taking by others of such steps.
- 2.3.4 Species listed on the BoCC Red List are those that have declined in numbers by 50% over the last 25 years, those that have shown a historical population decline between 1800 and 1995 and species that are of global conservation concern. The 70 species on the Red List are of the most urgent conservation concern.
- 2.3.5 Species listed on the BoCC Amber List, of which there are currently 103, include those that have shown a moderate decline in numbers (25%-49%) over the last 25 years and those with total populations of less than 300 breeding pairs. Also included are those species which represent a significant proportion (greater than 20%) of the European breeding or wintering population, those for which at least 50% of the British population





- is limited to ten sites or less, and those of unfavourable conservation status in Europe.
- 2.3.6 The remaining species are placed on the Green List, indicating that they are of low conservation priority.
- 2.3.7 Reference is not made to species afforded special protection under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended) as the protection measures only apply to these species within the breeding season.

Assumptions and limitations of the assessment

- 2.3.8 It should be noted that whilst every effort has been made to provide a comprehensive description of the site, no investigation can ensure the complete characterisation and prediction of the natural environment.
- 2.3.9 The majority of ecological data remains valid for only short periods due to the inherently transient nature of the subject. The survey results contained in this report are considered accurate for up to three years, assuming no significant considerable changes to the site conditions. A site verification walkover could be required within that time to determine whether the site had changed.
- 2.3.10 Area 15 was added mid-way through the 2022/2023 survey season, as a result only 3 months of data is available. A full data set was collected for the 2023/2024 period.
- 2.3.11 Area 16 is a new addition for 2023-2024, therefore, only one season of data is included in this report.
- 2.3.12 Large numbers of pheasant and red-legged partridge have been omitted from some sections of the 2023/2024 results in this report as large numbers had been released for recreational shooting purposes and therefore give an unrealistic view of the numbers.

Study area

- 2.3.13 The study area for the field survey comprises all areas within the boundary of The Project. The survey area was predominantly agricultural with associated hedgerows, small areas of adjoining woodland, and riparian habitat following the River Evenlode.
- 2.3.14 Due to the size of the site, it was split into smaller areas (1-16 and Denman's Farm) and numbered accordingly. Areas 3 and 4 were surveyed separately in 2023 but as a whole in 2024. The survey area locations can be seen in Appendix.





3 Field results

Area 1 2022-2023 and 2023-2024

- 3.1.1 A total of 46 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 March 2023 and October 2023 March 2024. These were all common and widespread species, typical of the habitat types found in Area 1.
- 3.1.2 Flocks of fieldfare, linnet, starling, and yellowhammer, which are Red Listed, and flocks of redwing and woodpigeon, which are Amber Listed, were recorded using the arable fields for foraging and cover.
- 3.1.3 Red List species including grey partridge and marsh tit, and Amber List species such as black-headed gull, dunnock, kestrel, lesser black-backed gull, mallard, meadow pipit, reed bunting, rook, song thrush, sparrowhawk, stock dove and wren were all observed foraging and loafing within the boundary of Area 1.
- 3.1.4 Three Annex 1 species: merlin, peregrine and red kite were recorded within the Area 1 boundary; hunting, and foraging, however, they had no other interaction with the site.
- 3.1.5 A summary of the species recorded, together with their peak and mean counts is provided in Table 2 below and their locations are shown in Figures 1.1A to 1.1F and 2.1A to 2.1F in Appendix B.

Table 2: Area 1 Survey summary data: October 2022 – March 2023, October 2023 - March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	5	10.8	Magpie	4	1.8
Black-headed gull	5	0.8	Mallard	2	0.3
Blue tit	10	19.7	Marsh tit	1	0.2
Buzzard	1	0.8	Meadow pipit	15	13.5
Carrion crow	23	9.2	Merlin	1	0.2
Chaffinch	12	10.3	Peregrine	1	0.2
Chiffchaff	1	0.2	Pied wagtail	3	0.5
Collard dove	1	0.2	Red kite	2	0.3
Dunnock	2	5.6	Redwing	65	27.8
Fieldfare	325	153.7	Reed bunting	1	0.7
Goldcrest	6	3.8	Robin	1	4.8
Goldfinch	45	7.5	Rook	3	0.5
Great spotted woodpecker	1	0.3	Skylark	85	37.5
Great tit	6	7	Song thrush	2	6.2
Green woodpecker	1	0.2	Sparrowhawk	1	0.2
Grey partridge	2	0.8	Starling	185	74.3
Jackdaw	35	7.2	Stock dove	2	0.7
Jay	1	1.2	Stonechat	2	0.3
Kestrel	2	0.3	Treecreeper	1	0.7





Species	Peak Count	Mean Cour	nt Species	Peak Count	Mean Count
Lesser black- backed gull	7	1.2	Woodpigeon	350	277.3
Linnet	150	67.3	Wren	2	5.8
Long-tailed tit	12	11.3	Yellowhammer	65	28.5

3.1.6 Of the 46 species recorded, 25 species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 3 below.

Table 3: Area 1 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Grey partridge	-	-	Red
Kestrel	-	-	Amber
Lesser black-backed gull	-	-	Amber
Linnet	-	•	Red
Marsh tit	-	•	Red
Peregrine		-	<u> </u>
Red kite		-	<u> </u>
Redwing	-	-	Amber
Rook	-	-	Amber
Skylark	-	=	Red
Song thrush	-	•	Amber
Starling	-	■	Red
Woodpigeon	-	<u>-</u>	Amber
Wren	-	<u>-</u>	Amber
Yellowhammer	-	•	Red
Mallard	-	<u>-</u>	Amber
Meadow pipit	-	<u>-</u>	Amber
Merlin	•	<u>-</u>	Red
Reed bunting	-	-	Amber
Sparrowhawk	-	-	Amber
Stock dove	-	-	Amber
Yellowhammer	-		Red





Area 2 2022-2023 and 2023-2024

- 3.1.7 A total of 45 species were recorded within the boundary of the area during the winter bird surveys between October 2022 March 2023 and October 2023 March 2024.
- 3.1.8 Golden plover, an Annex 1 species, and lapwing, a Red List species, were recorded in December 2022.
- 3.1.9 Mixed flocks of linnet and yellowhammer, which are Red Listed, and reed bunting and rook, which are Amber Listed were recorded foraging in January and February 2023.
- 3.1.10 Flocks of fieldfare, linnet and starling, which are Red listed, and redwing and woodpigeon, which are Amber Listed, were recorded using the arable fields for foraging and cover during the March 2023 survey.
- 3.1.11 Red List species corn bunting, greenfinch, grey partridge, house sparrow, marsh tit, mistle thrush, skylark, and yellowhammer, and Amber List species dunnock, kestrel, meadow pipit, reed bunting, rook, song thrush, sparrowhawk, stock dove, and wren were all observed foraging and loafing within the boundary of Area 2.
- 3.1.12 Three additional Annex 1 species: golden plover, peregrine and red kite were recorded flying over the Area 2 boundary; hunting, and foraging, however, they had no other interaction with the site.
- 3.1.13 A summary of the species recorded, together with their peak and mean counts is provided in Table 4 below and their locations are shown in 1.2A to 1.2F and 2.2A to 2.2F Appendix B.

Table 4: Area 2 Survey summary data – October 2022 - March 2023, October 2023 - March 2024

Species	Peak Count	Mean Coun	t Species	Peak Count	Mean Count
Blackbird	2	5.7	Lesser redpoll	1	0.2
Blue tit	5	7.8	Long-tailed tit	12	702
Buzzard	2	1.3	Magpie	9	3.2
Carrion crow	37	9.3	Marsh tit	1	0.5
Chaffinch	45	15.0	Meadow pipit	9	3.2
Dunnock	1	3.8	Mistle thrush	1	0.2
Fieldfare	280	92.7	Peregrine	1	0.3
Goldcrest	5	1.7	Red kite	2	1.8
Great spotted			Redwing	128	37.7
woodpecker	1	0.2			
Golden plover	63	20.5	Reed bunting	1	0.2
Great tit	4	1.8	Robin	1	4.5
Greenfinch	1	0.2	Rook	152	49.0
Green woodpecker	1	0.3	Skylark	149	42.8
Grey partridge	11	1.8	Song thrush	3	4.3
House sparrow	4	1.0	Starling	147	33.2
Jackdaw	350	158.7	Stock dove	17	6.2
Jay	1	0.2	Treecreeper	1	0.3
Kestrel	1	0.3	Woodpigeon	392	90.5





Species	Peak Count	Mean Coun	t Species	Peak Count	Mean Count
Lapwing	255	42.5	Wren	1	1.8
Linnet	153	63.2	Yellowhammer	170	36.2

3.1.14 Twenty-five species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 5 below.

Table 5: Area 2 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Corn Bunting	-	•	Red
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Golden plover	•	-	<u>-</u>
Greenfinch	-	-	Red
Grey partridge	-		Red
House sparrow	-	•	Red
Kestrel	-	-	Amber
Lapwing	-	•	Red
Linnet	-		Red
Marsh tit	-	•	Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Peregrine	•	-	-
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-		Red
Song thrush	-	•	Amber
Starling	<u>-</u>	•	Red
Stock dove	<u>-</u>	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-	•	Red

Areas 3 and 4 2022-2023 and 2023-2024

- 3.1.15 A total of 54 species were recorded within the boundary of the area during the winter bird surveys between October 2022 March 2023 and October 2023 March 2024.
- 3.1.16 Golden plover, an Annex 1 species, were using the arable fields for foraging.
- 3.1.17 Flocks of fieldfare, linnet, skylark, and starling, which are Red Listed were recorded using the area for winter foraging. Corn bunting, greenfinch, grey





- partridge, herring gull, house sparrow, marsh tit, mistle thush, woodcock and yellowhammer were also recorded using the arable fields and hedgerows for foraging and cover.
- 3.1.18 Black-headed gull, meadow pipit, redwing, rook and flocks of woodpigeon, which are Amber Listed species, were recorded using the arable fields for foraging, while bullfinch, dunnock, kestrel, sparrowhawk, stock dove and wren, were recorded using the area for loafing, hunting and foraging within the hedgerows.
- 3.1.19 Two additional Annex 1 species, peregrine and red kite, were recorded flying over the Area 3 and 4 boundaries, hunting and foraging. However they had no other interaction with the site.
- 3.1.20 A summary of the species recorded, together with their peak and mean counts is provided in Table 6 below and their locations are shown in Figures 1.3A to 1.1F and 2.1A to 2.1F in Appendix B.

Table 6: Areas 3 and 4 Survey summary data – October 2022 - March 2023, October 2023 - March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	2	6	Linnet	175	57.5
Black-headed gull	18	6.8	Long-tailed tit	15	6.5
Blue tit	6	18	Magpie	9	5.7
Bullfinch	2	0.3	Mallard	2	0.3
Buzzard	1	2	Marsh tit	1	0.3
Carrion crow	19	11	Meadow pipit	39	7.7
Chaffinch	35	17.5	Mistle thrush	1	0.3
Chiffchaff	1	0.2	Peregrine	1	0.2
Corn bunting	75	16.8	Pied wagtail	9	2.3
Dunnock	12	10.8	Raven	3	0.5
Fieldfare	150	105.5	Red kite	7	2.8
Goldcrest	5	2.2	Redwing	61	17.5
Golden plover	11	1.8	Reed bunting	3	1
Goldfinch	95	38.5	Robin	1	8.5
Great spotted woodpecker	1	0.2	Rook	46	13.3
Great tit	8	8.5	Skylark	85	95.6
Green woodpecker	1	0.2	Song thrush	4	4.5
Greenfinch	1	0.5	Sparrowhawk	1	0.3
Grey partridge	8	2	Starling	313	114.7
Herring gull	1	0.2	Stock dove	11	2.2
House sparrow	1	0.2	Stonechat	2	1.2
Jackdaw	300	84.2	Treecreeper	1	0.3
Jay	1	0.3	Woodcock	1	0.3
Kestrel	1	1.2	Woodpigeon	400	130.2
Lapwing	18	3	Wren	2	9.7
Lesser black- backed gull	38	6.3	Yellowhammer	42	21.2





3.1.21 Thirty species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 7 below.

Table 7: Areas 3 and 4 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull		-	Amber
Bullfinch			Amber
Corn bunting	-		Red
Dunnock	-		Amber
Fieldfare	-	-	Red
Golden plover	•	-	-
Greenfinch	-	-	Red
Grey partridge	-	•	Red
Herring gull	-		Red
House sparrow	-	•	Red
Kestrel	-	-	Amber
Lapwing	-	•	Red
Linnet	-	•	Red
Mallard	-	-	Amber
Marsh tit	-	•	Red
Meadow pipit	-	-	Amber
Peregrine		-	
Red kite		-	
Redwing	-	<u>-</u>	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-	•	Red
Song thrush	-	•	Amber
Sparrowhawk	-	-	Amber
Starling	-	•	Red
Stock dove	-	-	Amber
Woodcock	-	-	Red
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-	•	Red

Area 5 2022-2023 and 2023-2024

- 3.1.22 A total of 50 species were recorded within the boundary of the area during the winter bird surveys between October 2022 March 2023 and October 2023 March 2024.
- 3.1.23 Kingfisher and Red kite, which are Annex 1 species, were recorded within the boundary of Area 5.





- 3.1.24 Flocks of woodpigeon, redwing and rook, which are Amber Listed species, and lesser black-backed gull, meadow pipit, and stock dove, were recorded using the arable fields for foraging and cover. Bullfinch, dunnock, grey wagtail, meadow pipit, song thrush, stock dove, reed bunting, and wren were recorded within the hedgerows of the area, with kestrel and sparrowhawk using the area for hunting and loafing.
- 3.1.25 Flocks of fieldfare, which are a Red List species, as well as greenfinch, grey partridge, herring gull, linnet, marsh tit, mistle thrush, skylark, starling, and yellowhammer, were all recorded using the fields and hedgerows for feeding and shelter.
- 3.1.26 Two other Annex 1 species, peregrine and red kite, were regularly recorded flying over Area 5, both hunting and foraging, however they had no other interaction with the site.
- 3.1.27 A summary of the species recorded, together with their peak and mean counts is provided in Table 8 below and their locations are shown in Figures 1.4A to 1.4F and 2.4A to 2.4F in Appendix B.

Table 8: Area 5 Survey summary data – October 2022 - March 2023, October 2023 - March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	17	8.5	Lesser Redpoll	8	1.3
Black-headed gull	52	9.2	Linnet	1	0.3
Blue tit	16	17.3	Long-tailed tit	5	4.7
Bullfinch	1	0.8	Magpie	2	1.7
Buzzard	1	0.3	Marsh tit	1	0.5
Carrion crow	14	6	Meadow pipit	8	2.5
Chaffinch	110	24.8	Mistle thrush	2	0.8
Chiffchaff	1	0.3	Nuthatch	2	0.5
Coal tit	2	0.2	Pied wagtail	15	5.7
Dunnock	14	8	Red kite	2	1.8
Fieldfare	180	52.5	Redwing	53	36.5
Goldcrest	2	1.2	Reed bunting	2	0.5
Goldfinch	30	7.5	Robin	1	10.5
Great spotted woodpecker	1	0.3	Rook	168	41
Great tit	4	8	Siskin	4	0.8
Green woodpecker	1	0.6	Skylark	15	10.7
Greenfinch	6	2.7	Song thrush	2	6.8
Grey partridge	2	1.8	Sparrowhawk	1	0.2
Grey wagtail	1	0.3	Starling	6	2.2
Herring gull	9	2	Stock dove	35	9.7
Jackdaw	110	30.3	Treecreeper	1	0.3
Jay	1	0.8	Woodpigeon	544	206.3
Kestrel	1	0.5	Wren	2	7.3
Kingfisher	1	1	Yellowhammer	19	6.2
Lesser black-backed gull	7	6.2			





3.1.28 Twenty-eight species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 9 below.

Table 9: Area 5 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Bullfinch	-	-	Amber
Dunnock	-		Amber
Fieldfare	-	-	Red
Greenfinch	-	-	Red
Grey partridge	-	•	Red
Grey Wagtail	-	-	Amber
Herring gull	-	-	Red
Kestrel	-	-	Amber
Kingfisher		-	-
Lesser black-backed gull	-	-	Amber
Linnet	-	•	Red
Marsh tit	-	-	Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-		Red
Snipe	-	-	Amber
Song thrush	-	•	Amber
Sparrowhawk	-	-	Amber
Starling	-	•	Red
Stock dove	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-		Red

Area 6 2022-2023 and 2023-2024

- 3.1.29 A total of 59 species were recorded within the boundary of the area during the winter bird surveys between October 2022 March 2023 and October 2023 March 2024. These were all common and widespread species, typical of the habitat types found in Area 6.
- 3.1.30 Flocks of lesser black-backed gull, rook and woodpigeon, which are Amber Listed, with black-headed gull, greylag goose, grey wagtail, meadow pipit





- redwing and stock dove were recorded using the arable fields for foraging as well as utilising the trees, hedges and ditches. Bullfinch, dunnock, green sandpiper, kestrel, reed bunting, song thrush, sparrowhawk and wren, and were observed utilising the trees, hedges and ditches.
- 3.1.31 A rookery (of which rooks are Amber Listed) was recorded as being active from February 2023 onwards in the northern area of Area 6.
- 3.1.32 Red Listed species including corn bunting, greenfinch, grey partridge, house sparrow, mistle thrush and yellowhammer were observed within the boundary of Area 6, with flocks of linnet, skylark, and starling recorded using the arable fields to forage in 2022-2023.
- 3.1.33 Flocks of herring gull and skylark, which are Red listed species, using the arable fields to forage, with fieldfare, greenfinch, grey partridge, house sparrow, linnet, marsh tit, mistle thrush, starling and yellowhammer recorded utilising the arable fields, trees, hedges and ditches fields for cover and to forage in 2023-2024.
- 3.1.34 One Annex 1 species, red kite, was regularly recorded flying over Area 6, foraging and flying over, however they had no other interaction with the site.
- 3.1.35 A summary of the species recorded, together with their peak and mean counts is provided in Table 10 below and their locations are shown in Figures 1.5A to 1.5F and 2.5A to 2.5F in Appendix B.

Table 10: Area 6 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	3	14	Lesser black-backed gull	600	108.8
Black-headed gull	50	12.7	Lesser Redpoll	3	0.5
Blue tit	6	23.8	Linnet	90	15.7
Bullfinch	1	0.3	Long-tailed tit	6	10.8
Buzzard	4	1.7	Magpie	6	6.5
Carrion crow	11	6.8	Marsh tit	1	0.3
Chaffinch	75	20.7	Meadow pipit	12	8.2
Chiffchaff	1	0.3	Mistle thrush	4	1
Coal tit	1	0.3	Nuthatch	1	0.2
Collared dove	2	0.8	Pied wagtail	17	4.8
Corn bunting	1	0.2	Raven	2	0.3
Dunnock	2	18.3	Red kite	4	3.2
Fieldfare	55	15.2	Redwing	83	25.5
Firecrest	1	0.3	Reed bunting	11	3.5
Goldcrest	2	1.2	Robin	2	14.2
Goldfinch	17	7	Rook	300	148.5
Great spotted woodpecker	1	1.5	Siskin	3	0.8
Great tit	3	5.2	Skylark	72	49.3
Green sandpiper	1	0.2	Song thrush	14	7.7
Green woodpecker	1	1.5	Sparrowhawk	1	0.3
Greenfinch	15	5.5	Starling	68	21.5
Grey partridge	10	1.8	Stock dove	12	11.7





Species	Peak Count	Mean Coun	t Species	Peak Count	Mean Count
Grey wagtail	1	0.3	Stonechat	1	0.2
Greylag goose	12	2.2	Treecreeper	2	0.5
Herring gull	150	26.2	Woodcock	2	0.5
House sparrow	6	2.8	Woodpigeon	260	156.7
Jackdaw	200	65.3	Wren	2	12.8
Jay	5	2	Yellowhammer	22	13
Kestrel	1	0.5			

3.1.36 Thirty-one species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 11 below.

Table 11: Area 6 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Bullfinch	-	-	Amber
Corn bunting	-	•	Red
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Green sandpiper	-	-	Amber
Greenfinch	-	-	Red
Grey partridge	-		Red
Grey Wagtail	-	-	Amber
Greylag goose	-	-	Amber
Herring gull	-	-	Red
House sparrow	-		Red
Kestrel	-	-	Amber
Lesser black-backed gull	-	-	Amber
Linnet	-		Red
Marsh tit	-	-	Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-	•	Red
Song thrush	-	•	Amber
Sparrowhawk	-	-	Amber
Starling	-		Red
Stock dove	-	-	Amber
Woodcock	-	-	Red
Woodpigeon	-	-	Amber





Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Wren	-	-	Amber
Yellowhammer	-	•	Red

Area 7 2022-2023 and 2023-2024

- 3.1.37 A total of 53 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2022 to March 2023.
- 3.1.38 Red Listed species included greenfinch, house sparrow, linnet, mistle thrush, skylark, starling, and yellowhammer, were all recorded throughout Area 7 with the exception of flocks of fieldfare, which were recorded using the arable fields for foraging.
- 3.1.39 Flocks of redwing and woodpigeon, which are Amber Listed, were recorded using the arable fields for feeding, with bullfinch, dunnock, grey wagtail, kestrel, mallard, meadow pipit, moorhen, reed bunting, rook, snipe, song thrush, stock dove, tawny owl and wren also recorded within the boundary of Area 7.
- 3.1.40 A single observation for Dartford warbler, which are Amber Listed, was recorded in a hedgerow in the centre of Area 7. This is a very unusual record for this area.
- 3.1.41 Red kite, an Annex 1 species, was regularly recorded flying over Area 7, foraging and flying over, however they had no other interaction with the site. Another Annex 1 species, kingfisher was recorded along the river on a single occasion, and a pair of golden plover were recorded in the arable fields.
- 3.1.42 A summary of the species recorded, together with their peak and mean counts is provided in Table 12 below and their locations are shown in Figures 1.6A to 1.6F and 2.6A to 2.6F in Appendix B.

Table 12: Area 7 Survey summary data – October 2022 - March 2023, October 2023 - March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	6	6.3	Magpie	3	2
Blue tit	7	16	Mallard	3	1.5
Bullfinch	2	0.3	Meadow pipit	21	5.3
Buzzard	2	0.5	Mistle thrush	2	0.8
Carrion crow	7	3	Moorhen	2	0.5
Chaffinch	15	10.2	Mute swan	2	0.5
Coal tit	4	1.6	Pied wagtail	3	0.8
Dartford warbler	1	0.2	Raven	1	0.2
Dunnock	3	7.7	Red kite	4	1.7
Fieldfare	175	33.2	Redwing	135	104.7
Goldcrest	7	3	Reed bunting	6	2
Golden plover	2	0.3	Robin	7	7.7





Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Goldfinch	25	9	Rook	75	25.2
Great tit	7	9	Siskin	45	11
Green woodpecker	1	0.5	Skylark	25	10.7
Greenfinch	3	1.2	Snipe	2	0.3
Grey heron	3	0.5	Song thrush	3	1.7
Grey wagtail	2	0.5	Sparrowhawk	1	0.3
House sparrow	5	0.8	Starling	4	1.8
Jack snipe	1	0.2	Stock dove	3	0.8
Jackdaw	45	14.8	Tawny owl	1	0.3
Jay	2	0.8	Treecreeper	1	0.3
Kestrel	2	0.3	Woodpigeon	325	72.8
Kingfisher	1	0.3	Wren	8	4.5
Linnet	50	10.2	Yellowhammer	12	3.9
Long-tailed tit	12	15.5			

3.1.43 Twenty-nine species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 13 below.

Table 13: Area 7 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Bullfinch	-	-	Amber
Dartford warbler	-	-	Amber
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Golden plover	•	-	<u>-</u>
Greenfinch	-	-	Red
Grey Wagtail	-	-	Amber
House sparrow	-	•	Red
Kestrel	-	-	Amber
Kingfisher	•	-	<u>-</u>
Linnet	-	•	Red
Mallard	-	-	Amber
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Moorhen	-	-	Amber
Red kite	•	-	<u>-</u>
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-		Red
Snipe	-	-	Amber
Song thrush	-		Amber
Sparrowhawk	-	-	Amber





Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Starling	-		Red
Stock dove	-	-	Amber
Tawny owl	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-	•	Red

Area 8 2022-2023 and 2023-2024

- 3.1.44 A total of 50 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.45 Flocks of linnet, skylark, and yellowhammer, which are Red Listed, with fieldfare, and greenfinch, grey partridge, skylark and yellowhammer were frequently recorded using the arable fields for foraging and cover.

 Greenfinch, house sparrow, marsh tit, and mistle thrush were recorded in the trees and hedgerows.
- 3.1.46 Flocks of redwing, stock dove, and woodpigeon, which are Amber Listed, were recorded using the arable fields for feeding, with bullfinch, dunnock, kestrel, meadow pipit, redwing, reed bunting, rook, song thrush, sparrowhawk, and wren also recorded within the boundary of Area 8.
- 3.1.47 One Annex 1 species, red kite, was regularly recorded over Area 8, foraging and flying over, however they had no other interaction with the site.
- 3.1.48 A summary of the species recorded, together with their peak and mean counts is provided in Table 14 below and their locations are shown in Figures 1.7A to 1.7F and 2.7A to 2.7F in Appendix B.

Table 14: Area 8 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Cour	t Species	Peak Count	Mean Count
Blackbird	3	7.3	Magpie	2	1.3
Blue tit	3	14	Marsh tit	2	0.5
Brambling	3	2.3	Meadow pipit	9	4.3
Bullfinch	2	0.7	Mistle thrush	5	2.3
Buzzard	2	1.7	Nuthatch	1	0.3
Carrion crow	14	4.3	Pied wagtail	2	0.8
Chaffinch	324	108.2	Raven	2	0.8
Chiffchaff	1	0.2	Red kite	4	2.2
Coal tit	2	1	Redwing	60	20.5
Dunnock	13	7.7	Reed bunting	22	5
Fieldfare	59	15.8	Robin	2	8.8
Goldcrest	1	1.3	Rook	1	0.3
Goldfinch	15	12.3	Siskin	2	0.2





Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Great spotted woodpecker	1	1.2	Skylark	174	60.8
Great tit	2	3.2	Song thrush	5	4.3
Green woodpecker	1	1	Sparrowhawk	1	0.2
Greenfinch	20	7	Starling	104	28.5
Grey partridge	1	0.2	Stock dove	85	19
House sparrow	2	1.7	Stock dove	60	12.7
Jackdaw	135	28.5	Stonechat	2	0.3
Jay	4	2.2	Treecreeper	1	1.8
Kestrel	2	1.3	Woodpigeon	317	114.5
Lesser redpoll	1	0.3	Wren	2	8.5
Linnet	525	647.3	Yellowhammer	190	65
Long-tailed tit	6	3			

3.1.49 Twenty-three species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 15 below.

Table 15: Area 8 Conservation status of recorded birds – October 2022 - March 2023, October 2023 - March 2024

Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Bullfinch	-	-	Amber
Dunnock	-	I	Amber
Fieldfare	-	-	Red
Greenfinch	-	-	Red
Grey partridge	-	•	Red
House sparrow	-		Red
Kestrel	-	-	Amber
Linnet	-		Red
Marsh tit	-	-	Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-		Red
Song thrush	-		Amber
Sparrowhawk	-	-	Amber
Starling	-		Red
Stock dove	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-		Red





Area 9 2022-2023 and 2023-2024

- 3.1.50 A total of 61 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.51 Flocks of foraging fieldfare, lapwing, linnet, skylark and starling, which are Red Listed species, were recorded in Area 9. Greenfinch, grey partridge, house sparrow, lapwing, linnet, marsh tit, mistle thrush, skylark and yellowhammer were also recorded foraging in this area.
- 3.1.52 Flocks of black-headed gull and woodpigeon, which are Amber Listed species, as well as common gull, dunnock, greylag goose, kestrel, lesser black-backed gull, mallard, meadow pipit, moorhen, redwing, reed bunting, rook, snipe, song thrush, sparrowhawk, stock dove, wood pigeon and wren were observed using the arable fields and hedgerows for foraging and cover.
- 3.1.53 A single great white egret, which is Amber Listed, was observed foraging in the north of Area 9 in October 2022. This is an unusual record for the county.
- 3.1.54 One Annex 1 species, red kite, was regularly recorded flying over Area 8, foraging and flying over, however they had no other interaction with the site.
- 3.1.55 A summary of the species recorded, together with their peak and mean counts is provided in Table 16 below and their locations are shown in Figures 1.8A to 1.8F and 2.8A to 2.8F in Appendix B.

Table 16: Area 9 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Cour	nt Species	Peak Count	Mean Count
Blackbird	4	6	Linnet	130	34.3
Black-headed gull	155	26.5	Long-tailed tit	15	10.8
Blue tit	6	14.7	Magpie	5	3.8
Buzzard	3	1.3	Mallard	22	6.8
Canada goose	2	0.3	Marsh tit	1	0.3
Carrion crow	11	6.7	Meadow pipit	5	7
Chaffinch	81	16.8	Mistle thrush	1	0.7
Chiffchaff	1	0.7	Moorhen	1	0.8
Common gull	4	0.8	Mute swan	21	3.5
Dunnock	2	5.8	Pied wagtail	19	3.3
Egyptian goose	8	1.7	Raven	3	1.2
Feral pigeon	60	10	Red kite	4	1.8
Fieldfare	200	111.5	Redwing	33	13.7
Goldcrest	5	1.3	Reed bunting	3	1
Goldfinch	64	23	Robin	1	7
Great spotted woodpecker	1	0.5	Rook	6	1.2
Great tit	14	6.8	Siskin	40	7
Great white egret	1	0.2	Skylark	51	23.3
Green woodpecker	1	0.3	Snipe	1	0.3
Greenfinch	12	2.5	Song thrush	10	10
Grey heron	2	0.5	Sparrowhawk	1	0.5





Grey partridge	4	1.2	Starling	600	306
Greylag goose	4	0.7	Stock dove	14	2.7
Herring gull	15	2.7	Stonechat	2	1
House sparrow	5	0.8	Treecreeper	2	0.3
Jackdaw	26	6.8	Woodpigeon	70	46
Jay	4	2.2	Wren	2	10.5
Kestrel	2	0.5	Wren	1	8.3
Lapwing	44	13.2	Yellowhammer	8	3
Lesser black- backed gull	40	6.7			

3.1.56 Thirty-one species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 17 below.

Table 17: Area 9 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Common gull	-	-	Amber
Dunnock	-		Amber
Fieldfare	-	-	Red
Great white egret	-	-	Amber
Greenfinch	-	-	Red
Grey partridge	-		Red
Greylag goose	-	-	Amber
House sparrow	-		Red
Kestrel	-	-	Amber
Lapwing	-		Red
Lesser black-backed gull	-	-	Amber
Linnet	-		Red
Mallard	-	-	Amber
Marsh tit	-	-	Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Moorhen	-	-	Amber
Red kite		-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-	•	Red
Snipe	-	-	Amber
Song thrush	-	•	Amber
Sparrowhawk	-	-	Amber
Starling	-	•	Red





Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Stock dove	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-	•	Red

Areas 10 and 12 2022-2023 and 2023-2024

- 3.1.57 A total of 66 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.58 Four Annex 1 species were recorded in Areas 10 and 12. Golden plover, kingfisher, and little egret were observed foraging adjacent to the river. Red kite, was regularly recorded foraging and flying over, however they had no other interaction with the site.
- 3.1.59 Flocks of fieldfare, lapwing, skylark and starling, which are Red Listed species, were recorded foraging across Areas 10 and 12. Greenfinch, grey partridge, herring gull, linnet, mistle thrush, woodcock, and yellowhammer, which are Red Listed species, were also recorded throughout the area.
- 3.1.60 Flocks of black-headed gull, greylag goose, redwing, stock dove, and woodpigeon, which are Amber Listed species, were recorded foraging across Areas 10 and 12. Common gull, dunnock, green sandpiper, kestrel, lesser black-backed gull, mallard, meadow pipit, moorhen, reed bunting, rook, shelduck, snipe, song thrush, sparrowhawk and wren were recorded using the arable fields and hedgerows throughout the area.
- 3.1.61 A flock of 76 (feral) snow geese were recorded using the arable fields for foraging and loafing. This is an unusual record, but a feral population is known for the county, cerntred around Farmoor resevoir, and have been present for several years.
- 3.1.62 Flocks of mallard were recorded near the river, however, large numbers had been released in the Areas for recreational shooting purposes.
- 3.1.63 A summary of the species recorded, together with their peak and mean counts is provided in Table 18 below and their locations are shown in Figures 1.9A to 1.9F and 2.9A to 2.9F in Appendix B.

Table 18: Areas 10 and 12 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Cou	nt Species	Peak Count	Mean Count
Blackbird	4	7.2	Linnet	9	1.5
Black-headed gull	290	61.8	Little egret	3	0.7
Blue tit	6	10	Long-tailed tit	49	8.5
Buzzard	2	1.5	Magpie	7	1.7
Canada goose	15	2.8	Mallard	65	23
Carrion crow	33	12.8	Mandarin duck	6	1.7





Species	Peak Count	Mean Coun	t Species	Peak Count	Mean Count
Chaffinch	9	7.7	Meadow pipit	12	6.5
Chiffchaff	1	0.7	Mistle thrush	2	0.8
Common gull	6	1	Moorhen	1	0.7
Cormorant	3	0.5	Mute swan	55	44.2
Dunnock	2	5.7	Pied wagtail	5	1.5
Egyptian goose	2	0.7	Raven	1	0.5
Fieldfare	250	139.2	Red kite	3	1.8
Goldcrest	9	1.8	Redwing	105	31.2
Golden plover	2	0.3	Reed bunting	5	4.7
Goldfinch	150	45.2	Robin	1	5.2
Great spotted woodpecker	1	0.8	Rook	120	8.3
Great tit	12	4.2	Shelduck	1	0.5
Green sandpiper	1	0.3	Siskin	2	0.5
Green woodpecker	1	0.5	Skylark	88	33.3
Greenfinch	9	2.2	Snipe	8	2
Grey heron	6	2.2	Snow goose	76	12.6
Grey partridge	2	0.8	Song thrush	2	4.3
Greylag goose	75	17.5	Sparrowhawk	1	0.2
Herring gull	5	0.8	Starling	180	78.7
House sparrow	7	1.2	Stock dove	70	25.3
Jackdaw	48	26.7	Stonechat	2	1.5
Jay	2	1.2	Wood duck	2	1.2
Kestrel	2	0.5	Woodcock	1	0.2
Kingfisher	1	0.5	Woodpigeon	284	113.2
Lapwing	35	5.8	Wren	2	13
Lesser black-backed	3	0.5	Yellowhammer	4	2.8

3.1.64 Thirty-three species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 19 below.

Table 19: Areas 10 and 12 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Common gul	-	-	Amber
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Golden plover	•	-	-
Green sandpiper	-	-	Amber
Greenfinch	-	-	Red
Greylag goose	-	-	Amber
Herring gull	-	-	Red
House sparrow	-		Red





Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Kestrel	-	-	Amber
Kingfisher		-	<u>-</u>
Lapwing	-		Red
Lesser black-backed gull	-	-	Amber
Linnet	-		Red
Little egret	•	-	-
Mallard	-	-	Amber
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Moorhen	-	-	Amber
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-		Red
Snipe	-	-	Amber
Song thrush	-		Amber
Starling	-		Red
Stock dove	-	-	Amber
Woodcock	-	-	Red
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-		Red

Area 11 2022-2023 and 2023-2024

- 3.1.65 A total of 59 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.66 Flocks of fieldfare, linnet, skylark, and starling were regularly recorded using the arable fields with greenfinch, grey partridge, mistle thrush, skylark, starling and yellowhammer also using this area. These are all Red Listed species.
- 3.1.67 Flocks of Amber Listed species including greylag goose, meadow pipit, redwing and woodpigeon, were regularly recorded using the arable fields with black-headed gull, mallard, meadow pipit, moorhen, snipe and stock dove also present. Dunnock, kestrel, reed bunting, rook, song thrush, sparrowhawk and wren were all observed using the trees and hedgerows throughout Area 11.
- 3.1.68 One Annex 1 species, red kite, was regularly recorded flying over Areas 10 and 12, foraging and flying over, however they had no other interaction with the site.





- 3.1.69 One further Annex 1 species was recorded in Area 11. Kingfisher was recorded along the river.
- 3.1.70 A summary of the species recorded, together with their peak and mean counts is provided in Table 20 below and their locations are shown in Figures 1.10A to 1.10F and 2.10A to 2.10F in Appendix B.

Table 20: Area 11 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Barnacle goose	3	0.5	Linnet	225	110.7
Blackbird	3	9.3	Long-tailed tit	20	7.8
Blackcap	1	0.3	Magpie	5	1.7
Black-headed gull	85	14.2	Mallard	10	5.2
Blue tit	7	13.8	Mandarin duck	2	0.3
Bullfinch	1	0.3	Meadow pipit	75	13.5
Buzzard	2	1.8	Mistle thrush	1	0.3
Canada goose	4	1.3	Moorhen	3	1.8
Carrion crow	150	28.7	Mute swan	4	0.7
Chaffinch	225	50.2	Pied wagtail	11	2.5
Chiffchaff	9	1.7	Raven	2	1.3
Cormorant	1	0.3	Red kite	3	2
Dunnock	3	7.3	Redwing	110	41
Feral pigeon	15	2.5	Reed bunting	4	2.7
Fieldfare	225	110.2	Robin	11	5.3
Goldcrest	3	1.2	Rook	1	0.2
Goldfinch	28	8.2	Siskin	5	0.8
Great spotted woodpecker	1	0.5	Skylark	250	50.8
Great tit	5	9.3	Snipe	1	0.2
Green woodpecker	1	0.2	Song thrush	2	2.2
Greenfinch	4	3.3	Sparrowhawk	1	0.2
Grey heron	1	0.3	Starling	325	97.2
Grey partridge	2	0.3	Stock dove	3	1.5
Greylag goose	65	12.7	Stonechat	2	0.3
Jackdaw	275	50.7	Wood duck	4	2.3
Jay	2	0.8	Woodpigeon	225	88.7
Kestrel	2	0.7	Wren	2	8.5
Kingfisher	1	0.3	Yellowhammer	17	6.7
Lesser black-backed gull	7	1.3			

3.1.71 Twenty-eight species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 21 below.





Table 21: Area 11 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Bullfinch	-	-	Amber
Dunnock	-		Amber
Fieldfare	-	-	Red
Greenfinch	-	-	Red
Grey partridge	-	-	Red
Greylag goose	-	-	Amber
Kestrel	-	-	Amber
Kingfisher	•	-	-
Lesser black-backed gull	-	-	Amber
Linnet	-		Red
Mallard	-	-	Amber
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Moorhen	-	-	Amber
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-		Red
Snipe	-	-	Amber
Song thrush	-		Amber
Sparrowhawk	-	-	Amber
Starling	-		Red
Stock dove	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-		Red

Area 13 2022-2023 and 2023-2024

- 3.1.72 A total of 65 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.73 Flocks of Red Listed species including fieldfare, linnet, starling, skylark and yellowhammer with skylark, were recorded foraging in the arable fields in Area 13. Greenfinch, grey partridge, herring gull and mistle thrush were also recorded using the arable fields, hedgerows and trees for foraging and cover.





- 3.1.74 Flocks of Amber Listed species including black-headed gull, mallard, redwing, rook, stock dove, woodpigeon were regularly recorded using the arable fields for foraging. Bullfinch, dunnock, meadow pipit, song thrush, sparrowhawk and wren were observed using the trees and hedgerows, while grey wagtail, mallard, moorhen, shelduck, and teal were recorded adjacent to the river.
- 3.1.75 One Annex 1 species, red kite, was regularly recorded flying over Areas 10 and 12, foraging and flying over, however they had no other interaction with the site. A single golden plover was recorded calling in the arable fields.
- 3.1.76 A summary of the species recorded, together with their peak and mean counts is provided in Table 22 below and their locations are shown in Figures 1.11A to 1.11F and 2.11A to 2.11F in Appendix B.

Table 22: Area 13 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Cour	t Species	Peak Count	Mean Count
Barn owl	1	03	Linnet	216	41.5
Blackbird	3	15	Little owl	2	0.2
Black-headed gull	165	30.2	Long-tailed tit	11	10.3
Blue tit	7	23.5	Magpie	3	1.3
Bullfinch	1	0.2	Mallard	45	32.5
Buzzard	2	1.3	Mandarin duck	3	0.5
Canada goose	11	3.2	Meadow pipit	5	1.7
Carrion crow	30	35.5	Mistle thrush	1	0.2
Chaffinch	28	15	Moorhen	1	0.5
Chiffchaff	1	1.8	Mute swan	3	1.2
Cormorant	1	0.2	Pied wagtail	2	0.7
Dunnock	3	7.8	Raven	2	0.8
Egyptian goose	2	0.8	Red kite	5	3.8
Feral pigeon	150	46.7	Redwing	322	77.5
Fieldfare	250	155.2	Reed bunting	3	1.5
Goldcrest	2	2.3	Robin	1	12.5
Golden plover	1	0.3	Rook	160	42.5
Goldfinch	50	19.7	Shelduck	3	0.5
Great spotted woodpecker	1	0.8	Siskin	2	0.2
Great tit	17	12.2	Skylark	30	15.7
Green woodpecker	1	0.7	Song thrush	5	12.2
Greenfinch	3	1.8	Sparrowhawk	1	0.2
Grey heron	4	2	Starling	255	60
Grey partridge	2	0.7	Stock dove	30	27.5
Grey wagtail	2	0.3	Stonechat	3	0.8
Greylag goose	2	0.5	Teal	1	0.2
Herring gull	5	1.3	Wigeon	19	3.3
Jackdaw	500	170.5	Wood duck	2	0.3
Jay	1	0.3	Woodpigeon	460	300.8
Kestrel	1	0.3	Wren	2	11.5
Lesser black-	3	0.5	Yellowhammer	36	11.3





Species	Peak Count	Mean Count Species	Peak Count	Mean Count
backed gull				

3.1.77 Thirty-one species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 23 below.

Table 23: Area 13 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Bullfinch	-	-	Amber
Dunnock	-	I	Amber
Fieldfare	-	-	Red
Golden plover	•	-	
Greenfinch	-	-	Red
Grey partridge	-	-	Red
Grey wagtail	-	-	Amber
Greylag goose	-	-	Amber
Herring gull	-	I	Red
Kestrel	-	-	Amber
Lesser black-backed gull	-	-	Amber
Linnet	-		Red
Mallard	-	-	Amber
Meadow pipit	-	-	Amber
Moorhen	-	-	Amber
Red kite	•	-	-
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Shelduck	-	-	Amber
Skylark	-		Red
Song thrush	-		Amber
Sparrowhawk	-	-	Amber
Starling	-		Red
Stock dove	-	-	Amber
Teal	-	-	Amber
Wigeon	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-		Red





Area 14 2022-2023 and 2023-2024

- 3.1.78 A total of 51 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.79 The Annex 1 species, red kite, was regularly recorded foraging and flying over Area 14, however they had no other interaction with the site.
- 3.1.80 One further Annex 1 species, golden plover, was recorded in foraging in the arable fields.
- 3.1.81 An early passage wheatear was recorded during the March survey.
- 3.1.82 A flock of skylark, a Red Listed species, was regularly recorded foraging in the northernmost field of Area 14, while flocks of fieldfare, lapwing, linnet, and starling were recorded in the eastern fields of the area with herring gulls. Greenfinch and mistle thrush were observed in the hedgerows.
- 3.1.83 A flock of woodpigeon, which are Amber Listed, was regularly recorded foraging in the southeastern arable field with black-headed gull, lesser black-backed gull, meadow pipit, redwing, rook and snipe. Dunnock, kestrel, reed bunting, song thrush, stock dove and wren were all recorded with the hedgerows and trees of the area for foraging and cover.
- 3.1.84 Kestrel and sparrowhawk, both Amber Listed, were regularly recorded using the area for roosting and hunting.
- 3.1.85 A flock of 66 mute swans was recorded using the large southeastern arable field for foraging and loafing. Mute swans were previously included as a species of conservation concern, however have recently been downgraded to Green Listed.
- 3.1.86 A summary of the species recorded, together with their peak and mean counts is provided in Table 24 below and their locations are shown in Figures 1.12A to 1.12F and 2.12A to 2.12F in Appendix B.

Table 24: Area 14 Survey summary data – October 2022 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	4	5.5	Linnet	275	271.1
Black-headed gull	14	2.3	Long-tailed tit	12	3.3
Blue tit	9	18.5	Magpie	3	0.5
Brambling	2	0.2	Meadow pipit	35	15.8
Buzzard	2	0.7	Mistle thrush	1	0.2
Carrion crow	68	15.7	Mute swan	66	42.2
Chaffinch	225	107.8	Pied wagtail	5	0.8
Dunnock	10	10.8	Raven	2	0.2
Egyptian goose	2	0.3	Red kite	3	2.2
Feral pigeon	3	0.5	Redwing	45	17.3
Fieldfare	175	78.8	Reed bunting	18	4.3
Goldcrest	8	1.7	Robin	1	5.5
Golden plover	6	1	Rook	66	14.2
Goldfinch	20	3.8	Skylark	362	169.5





Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Great spotted woodpecker	1	0.3	Snipe	4	1.3
Great tit	8	4.2	Song thrush	1	0.8
Green woodpecker	1	0.2	Sparrowhawk	2	1
Greenfinch	6	1.3	Starling	82	28.2
Greylag goose	18	3	Stock dove	2	0.2
Herring gull	3	0.5	Stonechat	1	0.2
Jackdaw	175	51	Wheatear	1	0.3
Jay	1	0.3	Woodpigeon	290	202.5
Kestrel	1	0.3	Wren	2	5.3
Lapwing	110	18.3	Yellowhammer	35	22.3
Lesser black- backed gull	9	1.5			

3.1.87 Twenty-six species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 25 below.

Table 25: Area 14 Conservation status of recorded birds – October 2022 to March 2023, October 2023 to March 2024

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Golden plover	•	-	<u>-</u>
Greenfinch	-	-	Red
Greylag goose	-	-	Amber
Herring gull	-	•	Red
Kestrel	-	-	Amber
Lapwing	-	•	Red
Lesser black-backed gull	-	-	Amber
Linnet	-	•	Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-	•	Red
Snipe	-	-	Amber
Song thrush	-		Amber
Sparrowhawk	-	-	Amber
Starling	-		Red
Stock dove	-	-	Amber
Wheatear	-	-	Amber





Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-	•	Red

Area 15 2022-2023 and 2023-2024

- 3.1.88 A total of 47 species were recorded within the boundary of the area during the winter bird surveys undertaken between January 2023 to March 2023 and October 2023 to March 2024. Area 15 was added late to the programme, therefore only three surveys were undertaken.
- 3.1.89 A flock of Annex 1 species golden plover was recorded in the arable fields on two occasions, using the area for foraging and displaying. A second Annex 1 species, red kite, was regularly recorded foraging and flying over the Area, however they had no other interaction with the site.
- 3.1.90 Flocks of Red Listed species including fieldfare, linnet, skylark, and starling, were regularly recorded using the arable fields in Area 15, along with grey partridge and herring gull. Greenfinch, mistle thrush, and yellowhammer were recorded in the hedgerows and trees throughout the Area.
- 3.1.91 Additional Red Listed species such as greenfinch and grey partridge, and Amber Listed species such as dunnock, mallard, meadow pipit, song thrush and stock dove, were observed throughout Area 15.
- 3.1.92 Flocks of the Amber Listed species redwing and woodpigeon were recorded foraging in the arable fields with lesser black-backed gull, mallard, meadow pipit, rook, and stock dove. Additional Amber Listed species bullfinch, dunnock, kestrel, reed bunting, song thrush, and wren utilised the trees and hedgerows throughout this Area.
- 3.1.93 A summary of the species recorded, together with their peak and mean counts is provided in Table 26 below and their locations are shown in Figures 1.13D to 1.13F and 2.13A to 2.13F in Appendix B.

Table 26: Area 15 Survey summary data – January 2023 to March 2023, October 2023 to March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	2	6.7	Lesser black-backed gull	2	0.7
Blue tit	6	22	Linnet	450	239.7
Bullfinch	2	1	Long-tailed tit	12	16.3
Buzzard	2	2.8	Magpie	12	11.8
Carrion crow	6	4.1	Mallard	3	1
Chaffinch	125	104.2	Meadow pipit	35	16.1
Chiffchaff	1	1.4	Mistle thrush	2	1.3
Coal tit	4	0.8	Pied wagtail	12	3.3





Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Dunnock	4	8	Raven	2	1
Feral pigeon	18	3.2	Red kite	3	1.8
Fieldfare	250	176	Redwing	125	124.3
Goldcrest	8	2.8	Reed bunting	1	0.3
Golden plover	125	41	Robin	2	6.5
Goldfinch	75	32.7	Rook	65	10.8
Great spotted woodpecker	1	1.2	Skylark	275	123.2
Great tit	20	11.2	Song thrush	2	2
Green woodpecker	1	0.3	Sparrowhawk	1	0.2
Greenfinch	8	5	Starling	250	95.5
Grey partridge	5	2.6	Stock dove	8	2.2
Herring gull	5	1.3	Stonechat	2	0.2
Jackdaw	130	39.2	Woodpigeon	175	62.3
Jay	2	1.5	Wren	2	12.8
Kestrel	1	0.2	Yellowhammer	12	3.5

3.1.94 Thirty-one species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 27 below.

Table 27: Area 15 Conservation status of recorded birds – January to March 2023

Species			
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Black-headed gull	-	-	Amber
Bullfinch	-	-	Amber
Common gull	-	-	Amber
Dunnock	<u>-</u>	•	Amber
Fieldfare	-	-	Red
Gadwall	<u>-</u>	-	Amber
Golden plover	•	-	-
Greenfinch	-	-	Red
Grey partridge	-	-	Red
Grey wagtail	-	-	Amber
Herring gull	<u>-</u>	-	Red
Kestrel	-	-	Amber
Lapwing	-	•	Red
Lesser black-backed gull	-	-	Amber
Linnet	-		Red
Mallard	-	-	Amber
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Moorhen	-	-	Amber
Red kite		-	-





Species		Conservation Status	
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Redwing	-	-	Amber
Reed bunting	-	-	Amber
Rook	-	-	Amber
Skylark	-	•	Red
Song thrush	-		Amber
Sparrowhawk	-	-	Amber
Starling	-	•	Red
Stock dove	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-		Red

Area 16 2023-2024

- 3.1.95 A total of 51 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2023 to March 2024.
- 3.1.96 Flocks of Red Listed species fieldfare, linnet, and starling, were regularly recorded using the arable fields in Area 15, along with grey partridge, herring gull, and lapwing. Greenfinch, mistle thrush, and yellowhammer were recorded in the hedgerows and trees throughout the Area.
- 3.1.97 Amber Listed species including bullfinch, dunnock, kestrel, meadow pipit, reed bunting, song thrush, stock dove and wren were all recorded within the hedgerows and trees of the area, while flocks of black-headed gull, redwing, stock dove, and woodpigeon, with common gull, grey wagtail, lesser black-backed gull, mallard, moorhen, and rook were observed foraging in the arable fields.
- 3.1.98 One Annex 1 species, red kite, was regularly recorded flying over Area 16, foraging and flying over, however they had no other interaction with the site.
- 3.1.99 A summary of the species recorded, together with their peak and mean counts is provided in Table 28 below and their locations are shown in Figures 2.14A to 2.14F in Appendix B.

Table 28: Area 16 Survey summary data – October 2023 to March 2024

Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Blackbird	3	6.5	Kestrel	1	0.2
Black-headed gull	225	135.5	Lapwing	15	2.5
Blue tit	6	11.5	Lesser black-backed gull	1	0.3
Bullfinch	2	0.2	Linnet	145	73
Buzzard	3	2	Little Grebe	1	0.3
Carrion crow	8	6.7	Long-tailed tit	8	1.8
Cetti's warbler	1	3	Magpie	8	3.3





Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Chaffinch	6	8.7	Mallard	12	3.7
Chiffchaff	1	4.3	Meadow pipit	6	1
Common gull	1	0.3	Mistle thrush	1	0.2
Dunnock	3	8.7	Moorhen	1	0.7
Egyptian goose	1	0.3	Pied wagtail	2	0.3
Feral pigeon	15	4.5	Raven	1	0.3
Fieldfare	115	98.5	Red kite	8	4.7
Gadwall	1	0.3	Redwing	112	87.7
Goldcrest	8	1.8	Robin	1	4.8
Goldfinch	18	5.7	Rook	60	10
Great spotted woodpecker	1	0.3	Skylark	36	26.2
Great tit	5	5.3	Song thrush	5	3
Green woodpecker	1	0.8	Starling	175	72.3
Greenfinch	4	2.3	Stock dove	85	19.5
Grey partridge	2	0.2	Swallow	1	0.3
Grey wagtail	3	0.5	Woodpigeon	101	86.2
Herring gull	2	0.3	Wren	1	8.5
Jackdaw	43	46.7	Yellowhammer	26	21.8
Jay	1	0.5			

3.1.100 Thirty-one species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 29 below.

Table 29: Area 16 Conservation status of recorded birds – October 2023 to March 2024

Species	Conservation Status			
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species	
Black-headed gull	-	-	Amber	
Bullfinch	-	-	Amber	
Common gull	-	-	Amber	
Dunnock	-	•	Amber	
Fieldfare	-	-	Red	
Gadwall	-	-	Amber	
Golden plover		-	-	
Greenfinch	-	-	Red	
Grey partridge	-	-	Red	
Grey wagtail	-	-	Amber	
Herring gull	-	-	Red	
Kestrel	-	-	Amber	
Lapwing	-		Red	
Lesser black-backed gull	-	-	Amber	
Linnet	-		Red	





Species	Conservation Status			
	Annex 1 EU Birds Directive	NERC Species of Principal Importance	BoCC 5 Red and Amber Species	
Mallard	-	-	Amber	
Meadow pipit	-	-	Amber	
Mistle thrush	-	-	Red	
Moorhen	-	-	Amber	
Red kite		-	-	
Redwing	-	-	Amber	
Reed bunting	-	-	Amber	
Rook	-	-	Amber	
Skylark	-	•	Red	
Song thrush	-	•	Amber	
Sparrowhawk	-	-	Amber	
Starling	-	•	Red	
Stock dove	-	-	Amber	
Woodpigeon	-	-	Amber	
Wren	-	-	Amber	
Yellowhammer	-	•	Red	

Denman's Farm 2022-2023 and 2023-2024

- 3.1.101 A total of 49 species were recorded within the boundary of the area during the winter bird surveys undertaken between October 2022 to March 2023 and October 2023 to March 2024.
- 3.1.102 Red Listed species including fieldfare, skylark, starling and yellowhammer, with herring gull, linnet and lapwing, were all recorded using the arable fields for foraging and cover. Corn bunting, greenfinch, marsh tit, and mistle thrush were recorded in the hedgerows and trees.
- 3.1.103 Amber Listed species including dunnock, grey wagtail, kestrel, meadow pipit, reed bunting song thrush, stock dove, and wren were all recorded within the hedgerows and trees of the area, while flocks of grey wagtail, meadow pipit, redwing, rook, stock dove, teal and woodpigeon were observed foraging in the arable fields.
- 3.1.104 One Annex 1 species, red kite, was regularly recorded flying over Denmans Farm, foraging and flying over, however they had no other interaction with the site.
- 3.1.105 A summary of the species recorded, together with their peak and mean counts is provided in Table 30 below and their locations are shown in Figures 1014A to 1.14F and 2.15A to 2.15F in Appendix B.

Table 30: Denman's Farm Survey summary data – October 2022 to March 2023

Species	Peak Count	Mean Coun	t Species	Peak Count	Mean Count
Blackbird	3	18.3	Long-tailed tit	10	7.5
Blue tit	6	32.5	Lapwing	2	0.3





Species	Peak Count	Mean Count	Species	Peak Count	Mean Count
Buzzard	3	2.8	Magpie	15	11.7
Carrion crow	40	14.7	Marsh tit	1	0.8
Chaffinch	30	22.5	Meadow pipit	40	11.3
Chiffchaff	1	0.2	Mistle thrush	3	0.8
Coal tit	1	0.3	Nuthatch	1	0.7
Corn bunting	1	0.3	Pied wagtail	2	3.2
Dunnock	3	15.2	Red kite	1	0.8
Fieldfare	175	62.2	Redwing	44	13.3
Goldcrest	3	2.7	Reed bunting	1	0.2
Goldfinch	22	15.8	Robin	3	17.7
Great spotted woodpecker	1	0.7	Rook	60	10
Great tit	4	15.6	Skylark	18	7.7
Green woodpecker	1	1.2	Song thrush	6	18.2
Greenfinch	3	0.7	Sparrowhawk	1	0.3
Grey wagtail	3	0.5	Starling	165	27.8
Herring gull	1	0.3	Stock dove	2	1.2
Jackdaw	43	46.7	Stonechat	1	0.2
Jay	2	3.7	Teal	6	1
Kestrel	1	0.5	Treecreeper	2	0.2
Lapwing	3	0.8	Woodpigeon	350	279.2
Linnet	40	12.3	Wren	1	9
Little owl	1	0.2	Yellowhammer	34	22.7

3.1.106 Twenty-five species meet at least one of a range of criteria relating to nature conservation of those listed in section 2.3. These species, and their relevant conservation importance, are provided in Table 31 below.

Table 31: Denman's Farm Conservation status of recorded birds – October 2022 to March 2023

Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Corn bunting	-		Red
Dunnock	-	•	Amber
Fieldfare	-	-	Red
Greenfinch	-	-	Red
Grey wagtail	-	-	Amber
Herring gull	-		Red
Kestrel	-	-	Amber
Lapwing	-		Red
Linnet	-		Red
Marsh tit	-		Red
Meadow pipit	-	-	Amber
Mistle thrush	-	-	Red
Red kite		-	<u>-</u>
Redwing	-	-	Amber
Reed bunting	-	-	Amber





Species	Annex 1 EU Birds Directive	Conservation Status NERC Species of Principal Importance	BoCC 5 Red and Amber Species
Rook	-	-	Amber
Skylark	-		Red
Song thrush	-	•	Amber
Sparrowhawk	-	-	Amber
Starling	-	•	Red
Stock dove	-	-	Amber
Teal	-	-	Amber
Woodpigeon	-	-	Amber
Wren	-	-	Amber
Yellowhammer	-	•	Red





4 EVALUATION AND SUMMARY

4.1 Wintering Bird Assemblage

- 4.1.1 Fifty of the 96 species recorded during the wintering bird surveys qualify as being of conservation interest. The following 13 species are species of Principal Importance listed under Section 41 of the NERC Act (2006): bullfinch, corn bunting, dunnock, grey partridge, herring gull, house sparrow, lapwing, linnet, marsh tit, skylark, song thrush, starling, and yellowhammer.
- 4.1.2 The following six species recorded during the wintering bird surveys are Annex 1 species: golden plover, kingfisher, little egret, merlin, peregrine, and red kite.
- 4.1.3 The following 15 species recorded during the wintering bird surveys are included on the BoCC Red List: corn bunting, fieldfare, greenfinch, grey partridge, herring gull, house sparrow, lapwing, linnet, marsh tit, merlin, mistle thrush, skylark, starling, woodcock, and yellowhammer.
- 4.1.4 The following 29 species are included on the BoCC Amber List: black-headed gull, bullfinch, common gull, Dartford warbler, dunnock, gadwall, great white egret, green sandpiper, grey wagtail, greylag goose, kestrel, lesser black-backed gull, mallard, meadow pipit, moorhen, redwing, reed bunting, rook, shelduck, snipe, song thrush, sparrowhawk, stock dove, tawny owl, teal, wheatear, wigeon, woodpigeon, and wren.

4.2 Geographical Importance

- 4.2.1 The following geographical frames of reference and selection criteria (based on the Guidelines for Ecological Impact Assessment in the United Kingdom (CIEEM, 2019)) are used to ascribe nature conservation value or potential value to the breeding bird populations within the survey area.
 - International importance a species which is cited as part of the designated interest of a Specially Protected Area (SAP) or Ramsar or occurs in internationally or nationally important numbers (i.e., >1% threshold of international importance);
 - National importance a species which is cited as part of the designated interest of a SSSI or NNR, or occurs in nationally important numbers (i.e., >1% UK population or exceeds the 1% threshold for national importance);
 - Regional importance NERC Act (2016) Section 41 Priority Species and BoCC Red List species that regularly occur in regionally important numbers;
 - County importance NERC Act (2016) Section 41 Priority Species, BoCC Red List species, BAP Priority Species or species identified in the county biodiversity strategy that are important on a county basis;
 - Local importance Species of conservation interest (i.e., Annex, Schedule 1, NERC Priority Species, BoCC Red or Amber List species); or





- Site all common and widespread species.
- 4.2.2 The number of birds recorded during the survey is compared to the species' national wintering population estimate and county status. National wintering population estimates are based on Woodward *et al.* (2020), for those species for which only breeding population estimates are available the number of pairs/territories is doubled to provide an estimated wintering population.
- 4.2.3 Where no regional or county population estimates are available, professional judgment and comparisons with population estimates at higher geographical levels have been used to inform this assessment.
- 4.2.4 The numbers of the majority of the species of conservation concern recorded during the winter seasons are broadly representative of the species in the wider landscape, given the type and extent of suitable habitats present the numbers recorded are considered to be of no more than local importance.
- 4.2.5 The exceptions are black-headed gull, corn bunting, fieldfare, golden plover, lapwing, linnet, redwing, skylark, starling, and yellowhammer where larger numbers were recorded and considered to be of county importance. However, the peak count is an accumulation of the numbers recorded across the whole site and not specific to one survey area or flock. Given the winter flocking behaviour of these species, the scale of the whole site, the habitats within and surrounding the given area, these numbers are still broadly unexceptional.
 - **Black-headed gull** a resident breeder and common winter visitor in the UK and Oxfordshire, with an estimated winter population size of 2,200,000 birds (Woodward *et al.*, 2020). The peak mean count across the whole site was 1059 individuals.
 - Bullfinch a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 450,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 14 individuals.
 - Common gull a resident breeding bird in the north of UK with numbers swelling in the autumn with winter migrants with an estimated wintering population size of 710,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 11 individuals.
 - Corn bunting is a declining resident breeding and wintering bird in the
 UK with an estimated population of 22,000 individuals (Woodward et al.,
 2020). The peak mean count across the site was 78 individuals. Within
 Oxfordshire, corn bunting is an uncommon species, encountered in small
 numbers during the summer and winter.
 - **Dartford warbler** a resident breeding and wintering bird in the UK with an estimated population size of 4,400 individuals (Woodward *et al.*, 2020). Only one individual was recorded across the site during the surveys (within a hedgerow in the centre of Area 7). Dartford warbler is an exceedingly rare species in Oxfordshire with records confined to lowland heaths south of the River Thames. This individual was likely passing through and therefore not considered to be a permanent winter





- resident in the area. Dartford warbler is therefore considered to be of no more than local importance.
- Dunnock a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 4,700,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 173 individuals.
- **Fieldfare** a common winter visitor in the UK and Oxfordshire with an estimated winter population size of 720,00 birds (Woodward *et al.*, 2020). The peak mean count across the whole site was 2864 individuals.
- Gadwall a widespread, but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated population of 31,000 individuals (Woodward et al., 2020). The peak count across the whole site was one individual.
- **Golden plover** a common winter visitor with an estimated winter population size of 400,00 birds (Woodward *et al.*, 2020). The peak mean count across the whole site was 210 individuals.
- Great white egret a rare but increasing species in the UK with an estimated winter population size of 72 birds (Woodward et al., 2020). There is no county data available for great white egret. A single individual was recorded during the winter bird surveys. in Area 9 in October 2022, when it was observed foraging with a pair of mute swans. Although uncommon, great white egret are becoming a more frequent winter visitor and have been observed in most parts of the UK, though they are most frequently found in south-east England and East Anglia foraging in wetland habitats and farmland. This individual is not considered to be a permanent winter resident in the area and is therefore considered to be of no more than local importance.
- **Green sandpiper** a rare breeding bird and winter visitor in the UK with an estimated winter population size of 290 birds (Woodward *et al.*, 2020). The peak mean count across the whole site was two individuals.
- **Greenfinch** a common but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 1,520,000 individuals (Woodward *et al.*, 2020). The peak count across the whole site was 96 individuals.
- **Greylag goose** a common but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated winter population size of 230,000 birds (Woodward *et al.*, 2020). The peak count across the whole site was 196 individuals.
- Grey partridge a widespread, but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated population of 74,000 individuals (Woodward et al., 2020). The peak count across the whole site was 51.
- Grey wagtail a widespread resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 67,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 12.





- **Herring gull** a widespread and common winter visitor in the UK, but less common in Oxfordshire with an estimated winter population size of 730,000 birds (Woodward *et al.*, 2020). The peak mean count across the whole site was 196.
- House sparrow a common but declining resident wintering bird in the UK and Oxfordshire with an estimated population size of 10,300,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 30 individuals.
- Kestrel a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 60,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 21 individuals.
- Kingfisher a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 8,500 individuals (Woodward et al., 2020). The peak mean count across the whole site was four individuals.
- Lapwing a declining, resident breeding and wintering bird in the UK and Oxfordshire with an estimated winter population size of 620,000 birds (Woodward et al., 2020). The peak mean count across the whole site was 480 individuals.
- Lesser black-backed gull a common but declining, resident breeding and wintering bird in the UK and Oxfordshire with an estimated winter population size of 120,000 birds (Woodward et al., 2020). The peak mean count across the whole site was 717.
- Linnet a resident breeding and wintering bird in the UK and Oxfordshire with an estimated population of 1,060,000 individuals (Woodward et al., 2020). On a county level, linnet is a common winter resident and summer breeder. The peak mean count across the whole site was 3,074 individuals.
- Little egret an increasingly common bird in the UK, but rare in Oxfordshire, with an estimated winter population size of 11,500 birds (Woodward et al., 2020). The peak count across the whole site was three individuals.
- Mallard a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated winter population size of 665,000 birds (Woodward et al., 2020). The peak mean count across the whole site was 164 individuals.
- Marsh tit a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population of 57,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 10 individuals.
- Meadow pipit a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 5,500,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 326 individuals.





- Merlin a widespread resident breeding and wintering bird in the UK, but rare in Oxfordshire, with an estimated population size of 2,300 individuals (Woodward et al., 2020). The peak mean count across the whole site was one individual.
- **Mistle thrush** a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 300,000 individuals (Woodward *et al.*, 2020). The peak mean count across the whole site was 27 individuals.
- Moorhen a common resident breeding and wintering bird in the UK with an estimated population size of 200,000 territories with an estimated winter population size of 300,000 birds (Woodward et al., 2020). The peak mean count across the whole site was 22 individuals.
- Peregrine a widespread resident breeding and wintering bird in the UK, but rare in Oxfordshire, with an estimated population size of 3,300 individuals (Woodward et al., 2020). The peak mean count across the whole site was one individual.
- Red kite an increasing resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 8,700 individuals (Woodward et al., 2020). The peak mean count across the whole site was 56 individuals. The numbers recorded during the winter season are representative of the local population.
- Redwing a common winter visitor to the UK and Oxfordshire with an estimated wintering population size of 680,000 birds (Woodward et al., 2020). The peak count across the whole site was 1,481 individuals.
- Reed bunting a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 510,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 81 individuals.
- Rook a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 1,770,000 pairs (Woodward et al., 2020). The peak mean count across the whole site was 1,283 individuals.
- **Shelduck** a common resident breeding and wintering bird in the UK with an estimated population size of 51,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 4 individuals.
- **Skylark** a common resident breeding and wintering bird in the UK with an estimated population size of 3,000,000 individuals (Woodward *et al.*, 2020). The peak mean count across the whole site was 1,715 individuals.
- **Snipe** a common but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated winter population size of 1,000,000 birds (Woodward *et al.*, 2020). The peak mean count across the whole site was 16 individuals.
- **Song thrush** a common but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 2,400,000 individuals (Woodward *et al.*, 2020). The peak mean count across the whole site was 68 individuals.





- Sparrowhawk a common but declining resident breeding and wintering bird in the UK with an estimated population size of 57,000 individuals (Woodward et al., 2020). The mean peak count across the whole site was 14 individuals.
- **Starling** a common but declining resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 3,300,000 individuals (Woodward *et al.*, 2020). The peak count across the whole site was 3,112 individuals.
- Stock dove a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 640,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 130 individuals.
- Tawny owl a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 100,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was one individual.
- Teal a rare breeder but common winter visitor to the UK and Oxfordshire with an estimated wintering population size of 435,000 birds (Woodward et al., 2020). The peak count across the whole site was seven individuals.
- Wheatear a common summer migrant with an estimated breeding population of 170,000 pairs (Woodward et al., 2020). This was a single record of an early summer migrant and not of concern to the wintering numbers.
- Wigeon a rare breeder but common winter visitor to the UK and Oxfordshire with an estimated wintering population size of 450,000 birds (Woodward et al., 2020). The peak count across the whole site was 19 individuals.
- **Woodcock** a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 55,000 males with an estimated winter population size of 1,4000,000 birds (Woodward et al., 2020). The peak count across the whole site was four individuals.
- Woodpigeon a common resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 10,300,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 4,543 individuals.
- Wren a common resident breeding and wintering bird in the UK with an estimated population size of 22,000,000 individuals (Woodward et al., 2020). The peak count across the whole site was 112 individuals.
- Yellowhammer a resident breeding and wintering bird in the UK and Oxfordshire with an estimated population size of 1,370,000 individuals (Woodward et al., 2020). The peak mean count across the whole site was 692.





4.3 References

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Appendix A – Desk study

Summary of desk study results for birds

Abbreviations: BDir1: Birds Directive; WCA1: Wildlife & Countryside Act Schedule 1, part 1; S41: Natural Environment & Rural Communities Act Species of Principal Importance; NT: Red List (pre 1994 IUCN guidelines) Near Threatened; VU: Red List (pre 1994 IUCN guidelines) Vulnerable; Red: RSPB BoCC Red list; Amber: RSPB BoCC Amber list.

Common name	Scientific name	Nearest distance from the project	Year of most recen record	Conservation status t
Arctic tern	Sterna paradisaea	0.74	2019	BDir1, Amber
Barn owl	Tyto alba	0	2022	WCA1
Barnacle goose	Branta leucopsis	0.70	2022	BDir1, Amber
Bittern	Botaurus stellaris	0.39	2022	BDir1, WCA1, S41, Amber
Black tern	Childonias niger	0.70	2020	BDir1, WCA1
Black-headed Gull	Chroicocephalus ridibundus	0.48	2022	Amber
Black-necked Grebe	Podiceps nigricollis	0.70	2022	WCA1, Amber
Black-tailed Godwit	Limosa limoas	0.70	2022	WCA1, S41, Red, NT
Black-throated Diver	Gavia arctica	0.74	2015	BDir1, WCA1, Amber,
Brambling	Fringilla montifringilla	0.17	2022	WCA1
Bullfinch	Pyrrhula pyrrhula	0.15	2022	S41, Amber
Caspian Gull	Larus cachinnans	0.47	2022	Amber
Cattle Egret	Bubulcus ibis	0.70	2022	Amber
Cetti's Warbler	Cettia cetti	0.08	2022	WCA1
Common Gull	Larus canus	0.70	2022	Amber
Common Redpoll	Acanthis flammea	0.65	2020	Red





Common Sandpiper	Actitis hypoleucos	0.70	2022	Amber
Common Scoter	Melanitta nigra	0.74	2020	WCA1, S41, Red
Common Tern	Sterna hirundo	0.70	2022	Amber
Corn Bunting	Emberiza calandra	1.00	2020	S41, Red
Crane	Grus grus	0.39	2021	Amber
Crossbill	Loxia curvirostra	1.32	2020	WCA1
Cuckoo	Cuculus canorus	0.05	2022	S41, Red
Curlew	Numenius arquata	0.70	2022	S41, Red, NT
Dunlin	Calidris alpina	0.70	2020	Red
Dunnock	Prunella modularis	0.15	2022	S41, Amber
Fieldfare	Turdus pilaris	0.48	2022	WCA1, Red
Firecrest	Regulus ignicapilla	0.82	2016	WCA1
Gadwall	Mareca strepera	0.74	2022	Amber
Garganey	Spatula querquedula	0.70	2020	WCA1, Amber
Glossy Ibis	Plegadis falcinellus	0.70	2022	BDir1
Golden Plover	Pluvialis apricaria	0.27	2022	BDir1
Goldeneye	Bucephala clangula	0.70	2022	WCA1, Red
Goshawk	Accipiter gentilis	1.32	2019	WCA1
Grasshopper Warbler	Locustella naevia	0.70	2021	S41, Red
Great Black-backed Gull	Larus marinus	0.47	2022	Amber
Great Northern Diver	Gavia immer	0.74	2016	BDir1, WCA1, Amber





Great White Egret	Ardea alba	0.70	2022	Amber
Green Sandpiper	Tringa ochropus	0.19	2022	WCA1, Amber
Greenfinch	Chloris chloris	0.09	2022	Red
Greenshank	Tringa nebularia	0.70	2020	WCA1, Amber
Grey Partridge	Perdix perdix	0.91	2020	S41, Red
Grey Wagtail	Motacilla cinerea	0.20	2022	Amber
Greylag Goose	Anser anser	0	2022	Amber
Herring Gull	Larus argentatus	0.67	2022	S41, Red
Hobby	Falco subbuteo	0.004	2022	WCA1
House Martin	Delichon urbicum	0.22	2022	Red
House Sparrow	Passer domesticus	0.15	2022	NERC S41, Red
Kestrel	Falco tinnunculus	0	2022	Amber
Kingfisher	Alcedo atthis	0.004	2022	BDir1, WCA1
Lapwing	Vanellus vanellus	0.05	2022	S41, Red
Lesser Black-backed Gull	d Larus fuscus	0.74	2022	Amber
Lesser Redpoll	Acanthis cabaret	0.70	2022	S41
Linnet	Linaria cannabina	0.14	2022	S41, Red
Little Egret	Egretta garzetta	0.70	2022	BDir1
Little Gull	Hydrocoloeus minutus	0.70	2021	BDir1, WCA1,
Little Ringed Plover	Charadrius dubius	0.69	2022	WCA1,
Little Tern	Sternula albifrons	0.74	2018	BDir1, WCA1, Amber
Long-tailed Duck	Clangula hyemalis	0.70	2021	WCA1, Red, VU





Mallard	Anas platyrhynchos	0	2022	Amber
Marsh Harrier	Circus aeruginosus	0.70	2021	BDir1, WCA1, Amber
Marsh Tit	Poecile palustris	0	2022	S41, Red
Meadow Pipit	Anthus pratensis	0.20	2022	Amber
Mediterranean Gull	lchthyaetus melanocephalus	0.74	2022	BDir1, WCA1, Amber
Mistle Thrush	Turdus viscivorus	0.09	2022	Red
Moorhen	Gallinula chloropus	0	2022	Amber
Osprey	Pandion haliaetus	0.74	2015	Amber
Oystercatcher	Haematopus ostralegus	0.63	2022	Amber
Peregrine	Falco peregrinus	0.70	2022	BDir1, WCA1,
Pintail	Anas acuta	0.70	2022	WCA1, Amber
Pochard	Aythya ferina	0.70	2022	Red
Quail	Coturnix coturnix	0.17	2020	WCA1, Amber
Red Kite	Milvus milvus	0	2022	BDir1, WCA1, NT
Red-necked Grebe	Podiceps grisegena	0.74	2016	Red
Redwing	Turdus iliacus	0.48	2022	WCA1, Amber
Reed Bunting	Emberiza schoeniclus	0	2022	S41, Amber
Ringed Plover	Charadrius hiaticula	0.70	2020	Red
Rook	Corvus frugilegus	0.17	2022	Amber
Ruddy Shelduck	Tadorna ferruginea	0.74	2017	BDir1
Ruff	Calidris pugnax	0.70	2022	BDir1, WCA1, Red
Sanderling	Calidris alba	0.74	2017	Amber





Sandwich Tern	Thalasseus sandvicensis	0.70	2020	BDir1, Amber
Scaup	Aythya marila	0.74	2019	WCA1, S41, Red
Sedge Warbler	Acrocephalus schoenobaenus	0	2022	Amber
Shag	Gulosus aristotelis	0.74	2017	Red
Shelduck	Tadorna tadorna	0.70	2022	Amber
Shoveler	Spatula clypeata	0.70	2022	Amber
Skylark	Alauda arvensis	0	2022	S41, Red
Slavonian Grebe	Podiceps auritus	0.74	2019	BDir1, WCA1, Red
Snipe	Gallinago gallinago	0.38	2022	Amber
Song Thrush	Turdus philomelos	0	2022	S41, Amber
Sparrowhawk	Accipiter nisus	0.11	2022	Amber
Spotted Flycatcher	Muscicapa striata	1.32	2021	S41, Red
Spotted Redshank	Tringa erythropus	0.70	2020	Amber
Starling	Sturnus vulgaris	0.17	2022	NERC S41, Red
Stock Dove	Columba oenas	0	2022	Amber
Swift	Apus apus	0	2022	Red
Tawny Owl	Strix aluco	0.004	2022	Amber
Teal	Anas crecca	0.70	2022	Amber
Tree Sparrow	Passer montanus	1.37	2017	S41, Red
Turnstone	Arenaria interpres	0.70	2020	Amber
Wheatear	Oenanthe oenanthe	0	2021	Amber





White-fronted Goose Anser albifrons		0.70	2021	Red
Whitethroat	Curruca communis	0	2021	Amber
Wigeon	Mareca penelope	0.70	2022	Amber
Willow Warbler	Phylloscopus trochilus	0.17	2022	Amber
Wood Sandpiper	Tringa glareola	0.70	2022	BDir1, WCA1, Amber
Woodcock	Scolopax rusticola	0.05	2021	Red
Woodpigeon	Columba palumbus	0.004	2022	Amber
Wren	Troglodytes troglodytes	0	2022	Amber, BAP
Yellow Wagtail	Motacilla flava	0.15	2022	S41, Red
Yellow-legged Gull	Larus michahellis	0.15	2022	Amber
Yellowhammer	Emberiza citrinella	0	2022	S41, Red

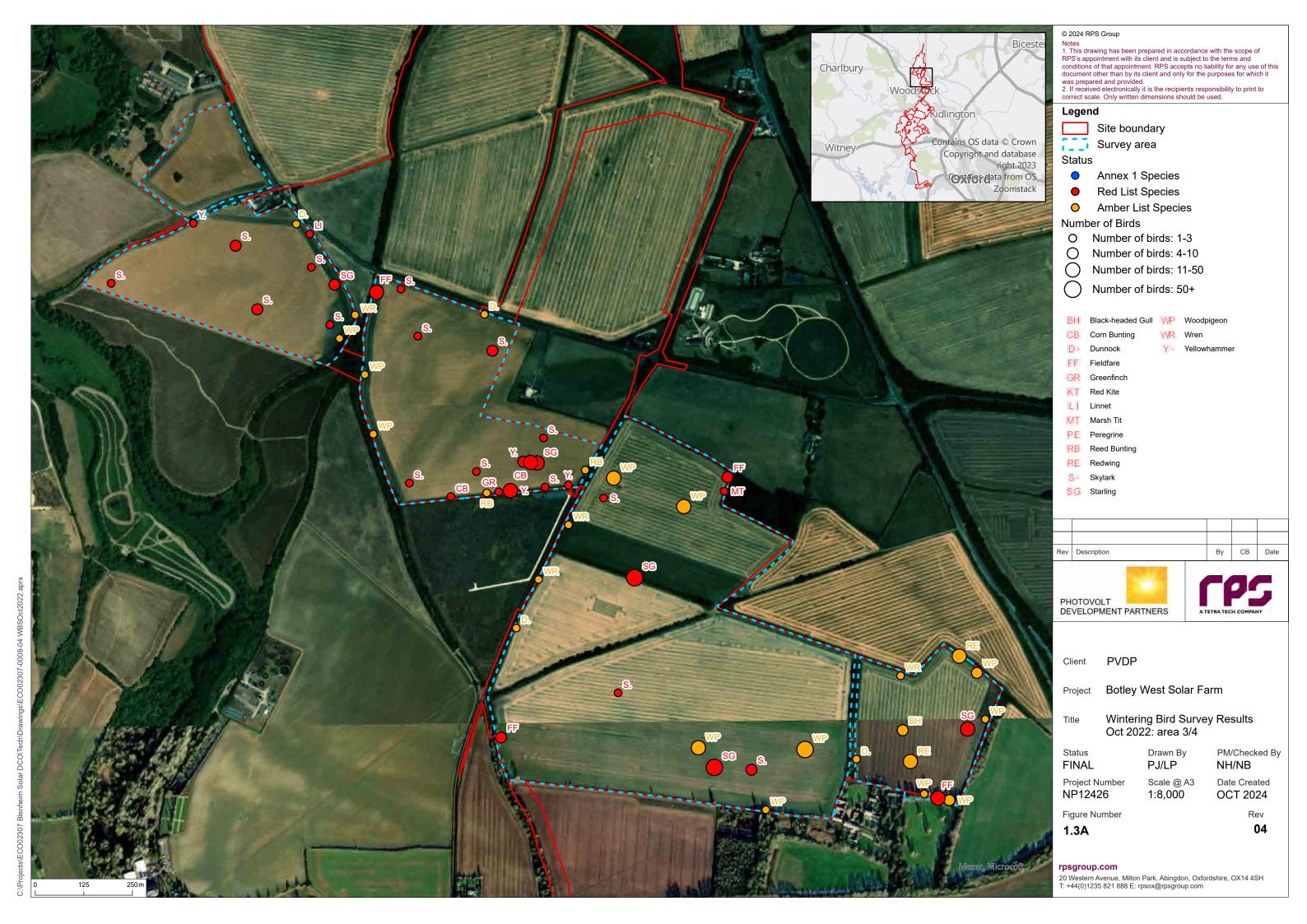




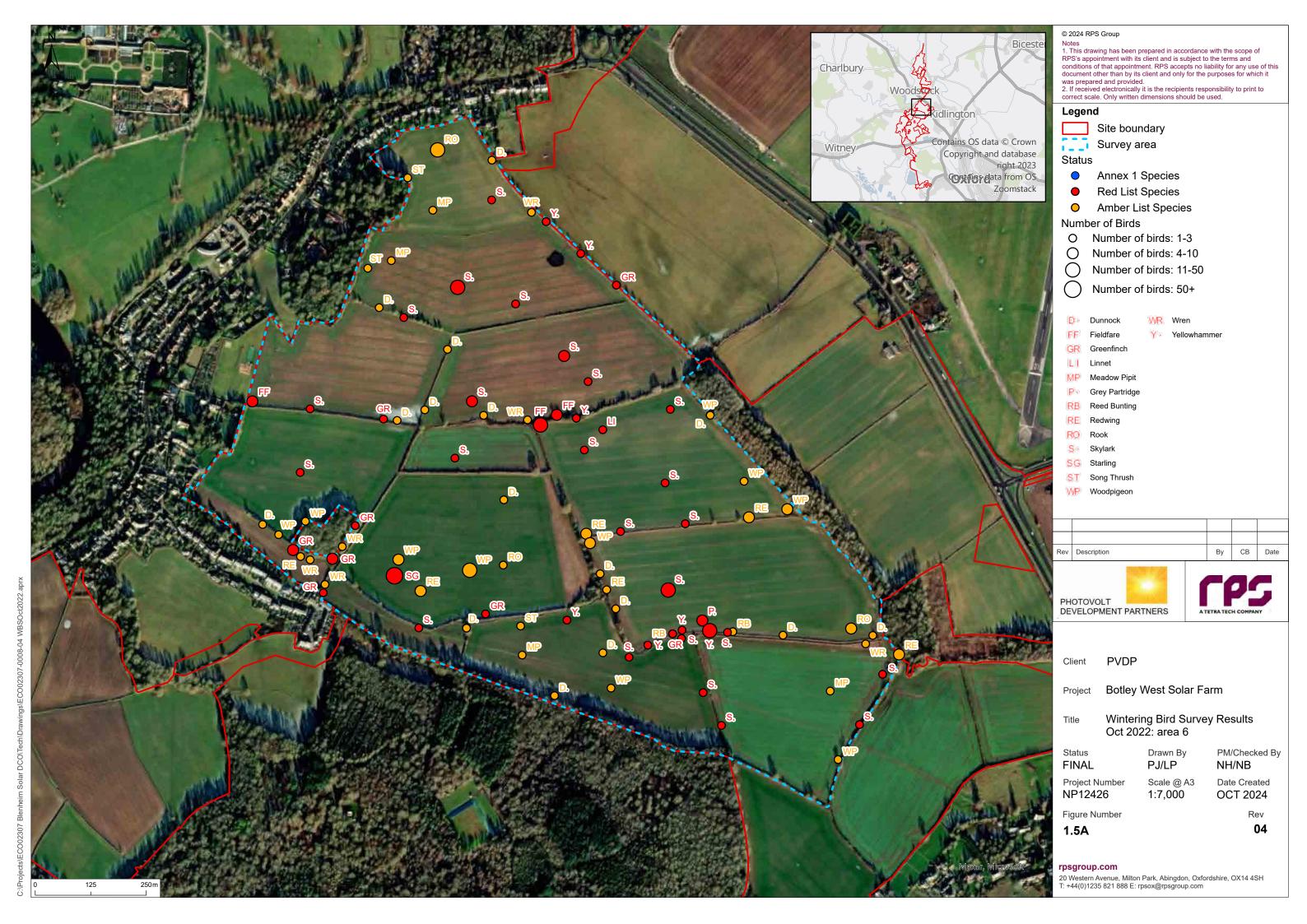
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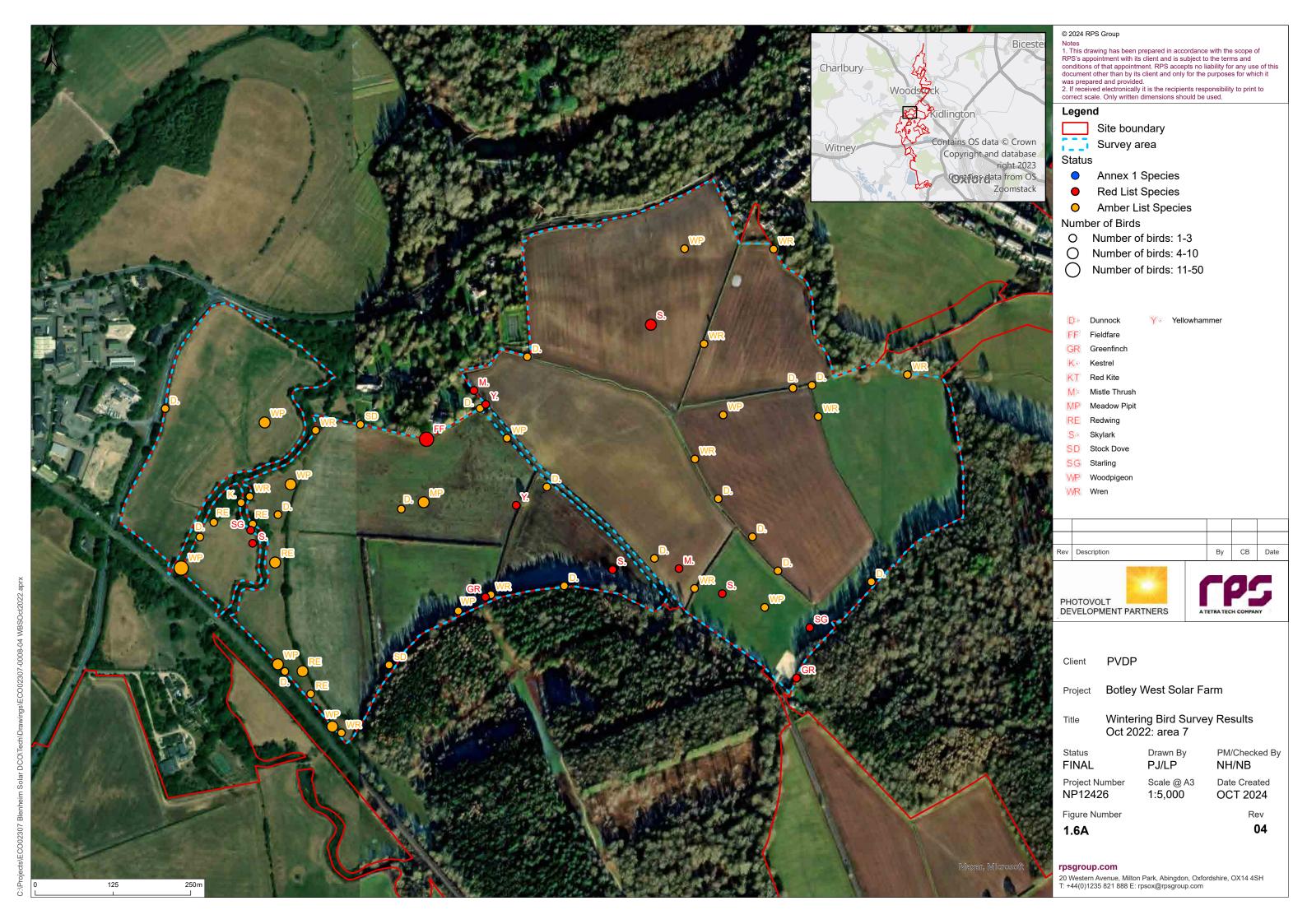


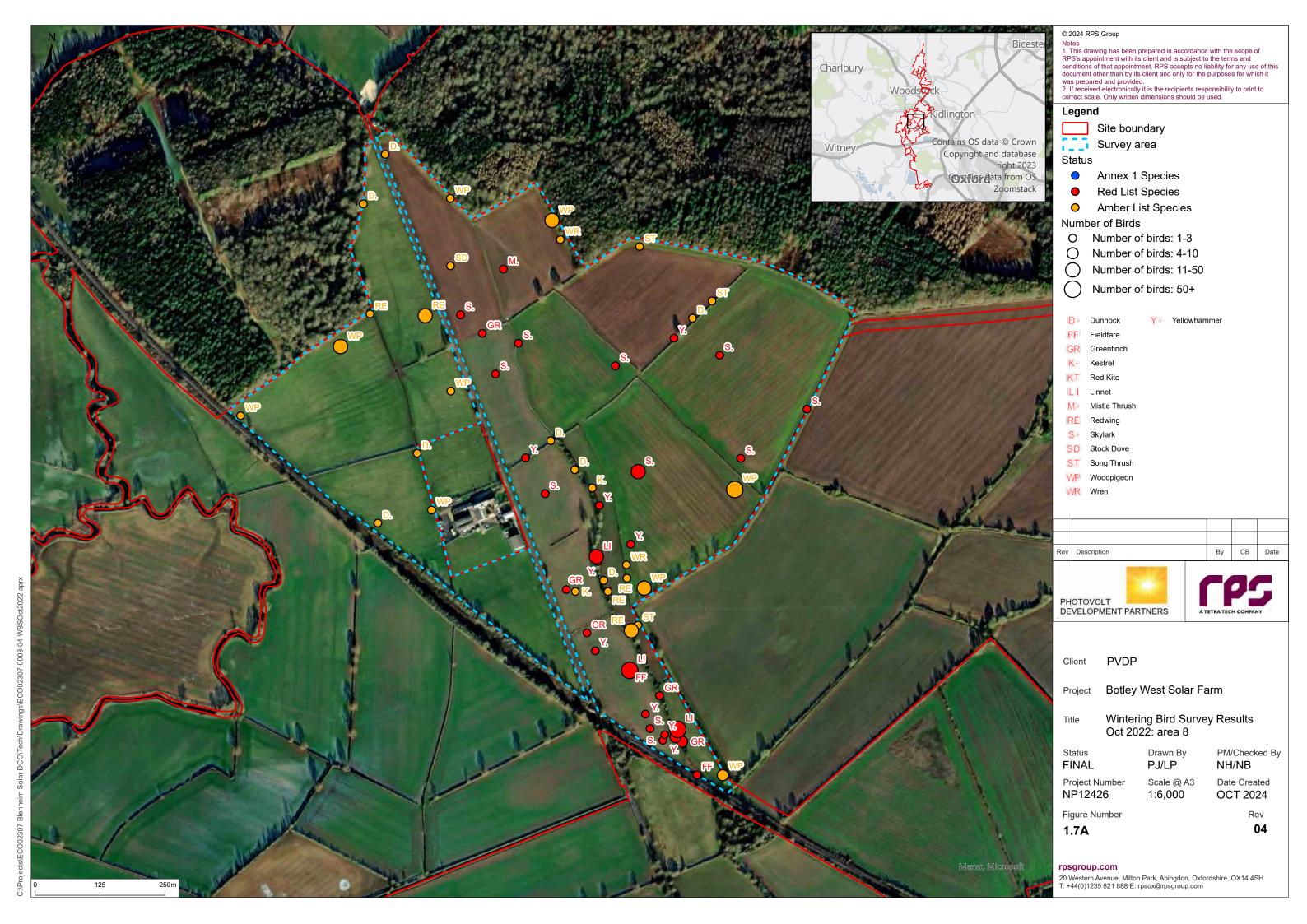


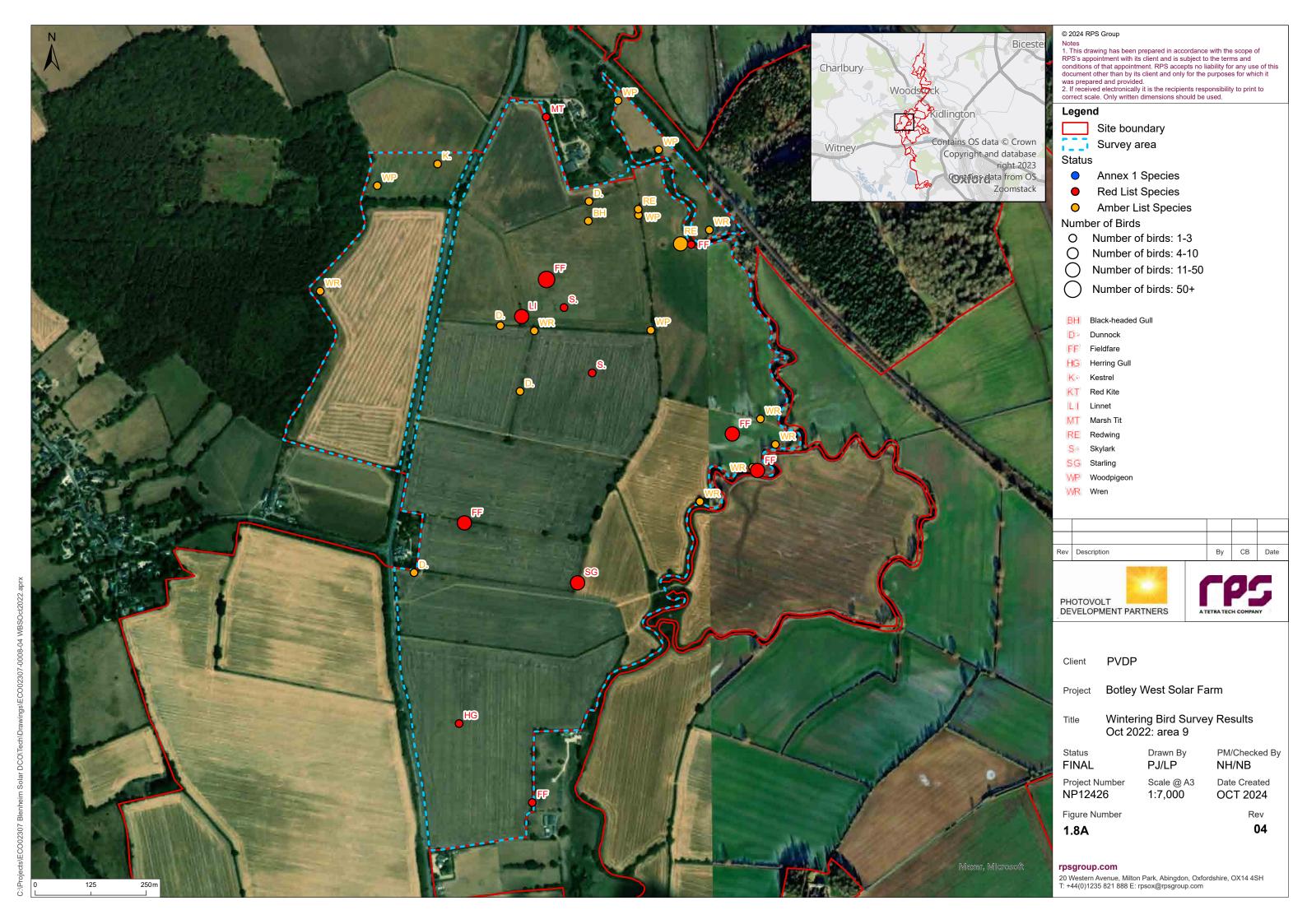


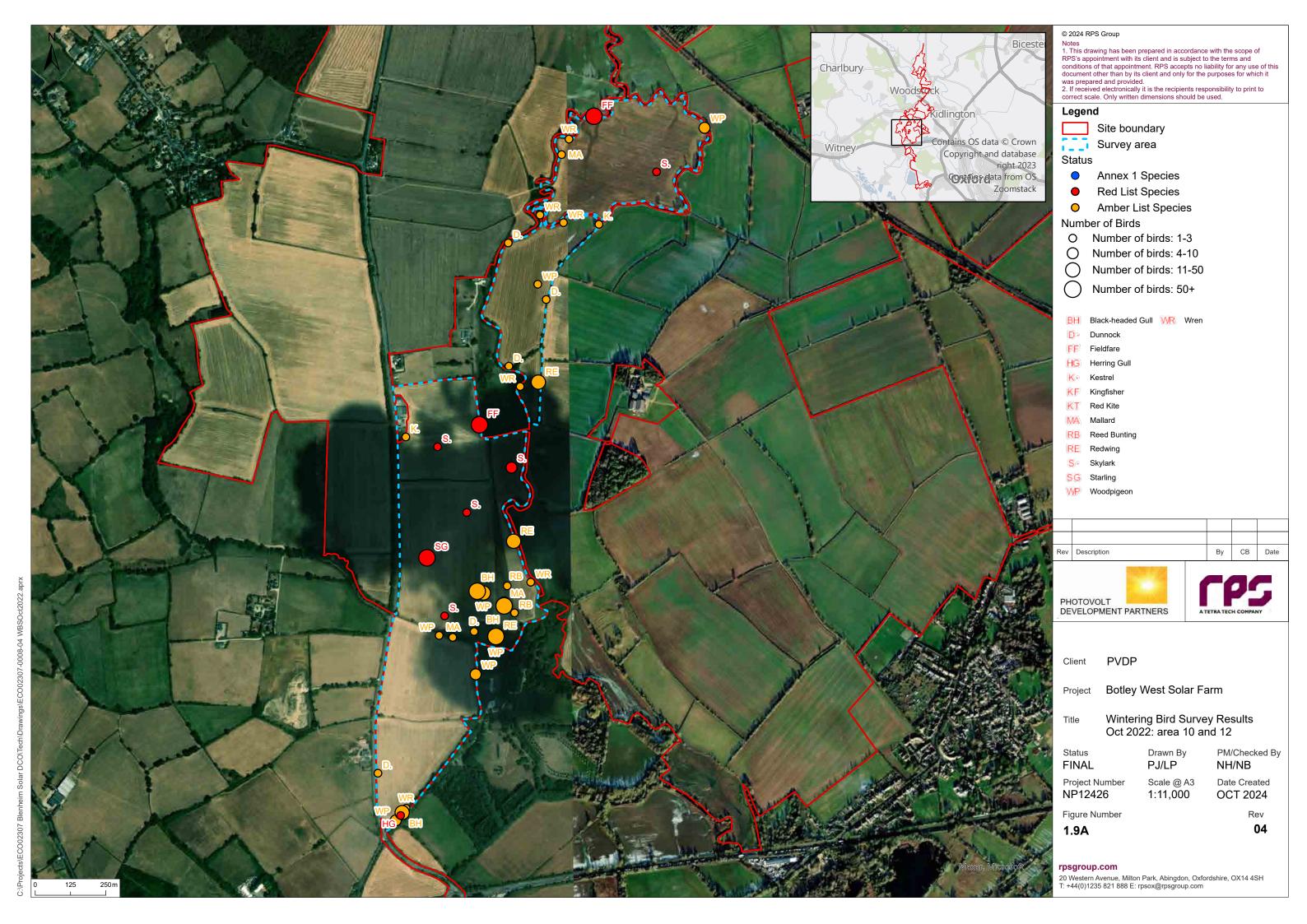


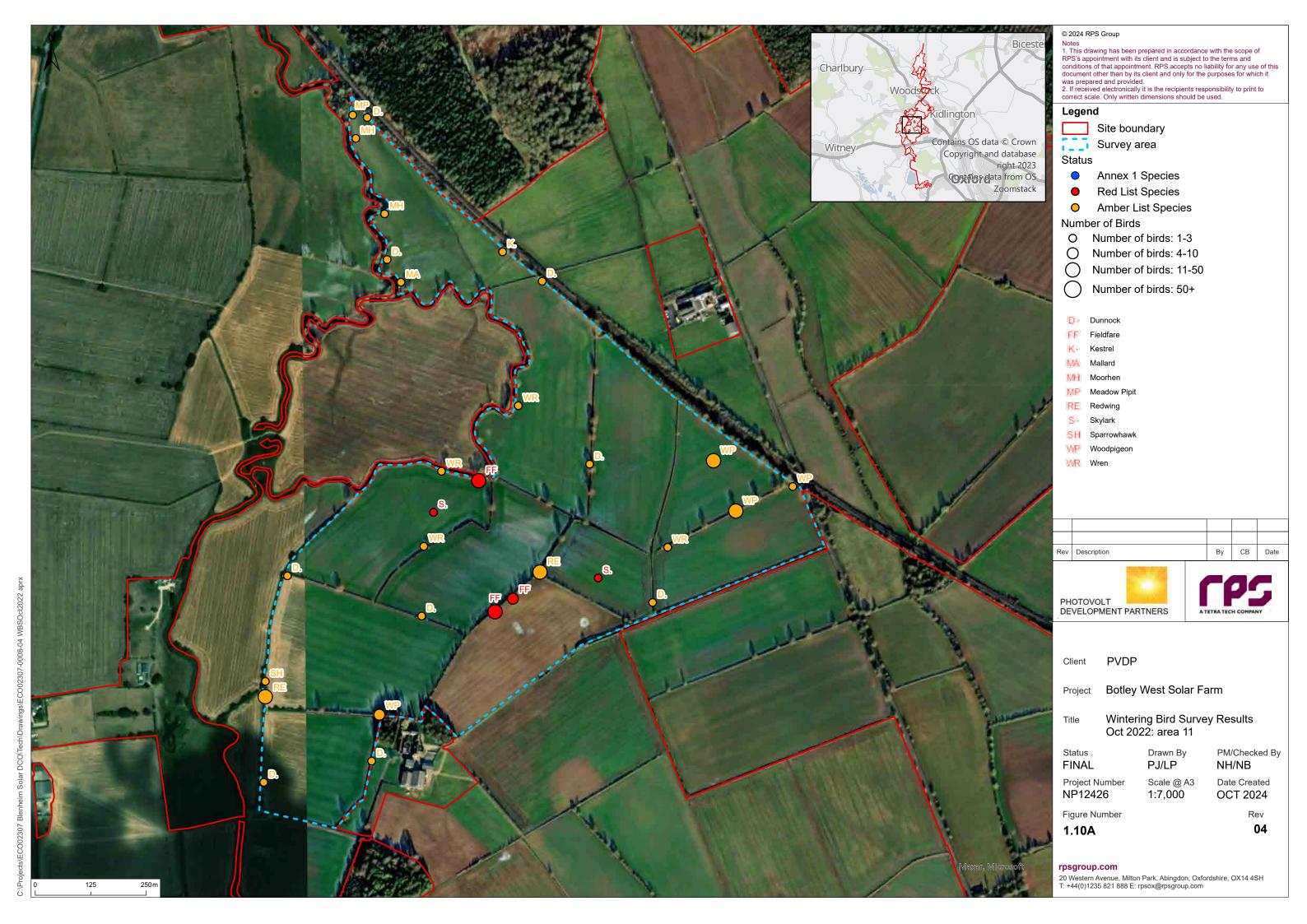


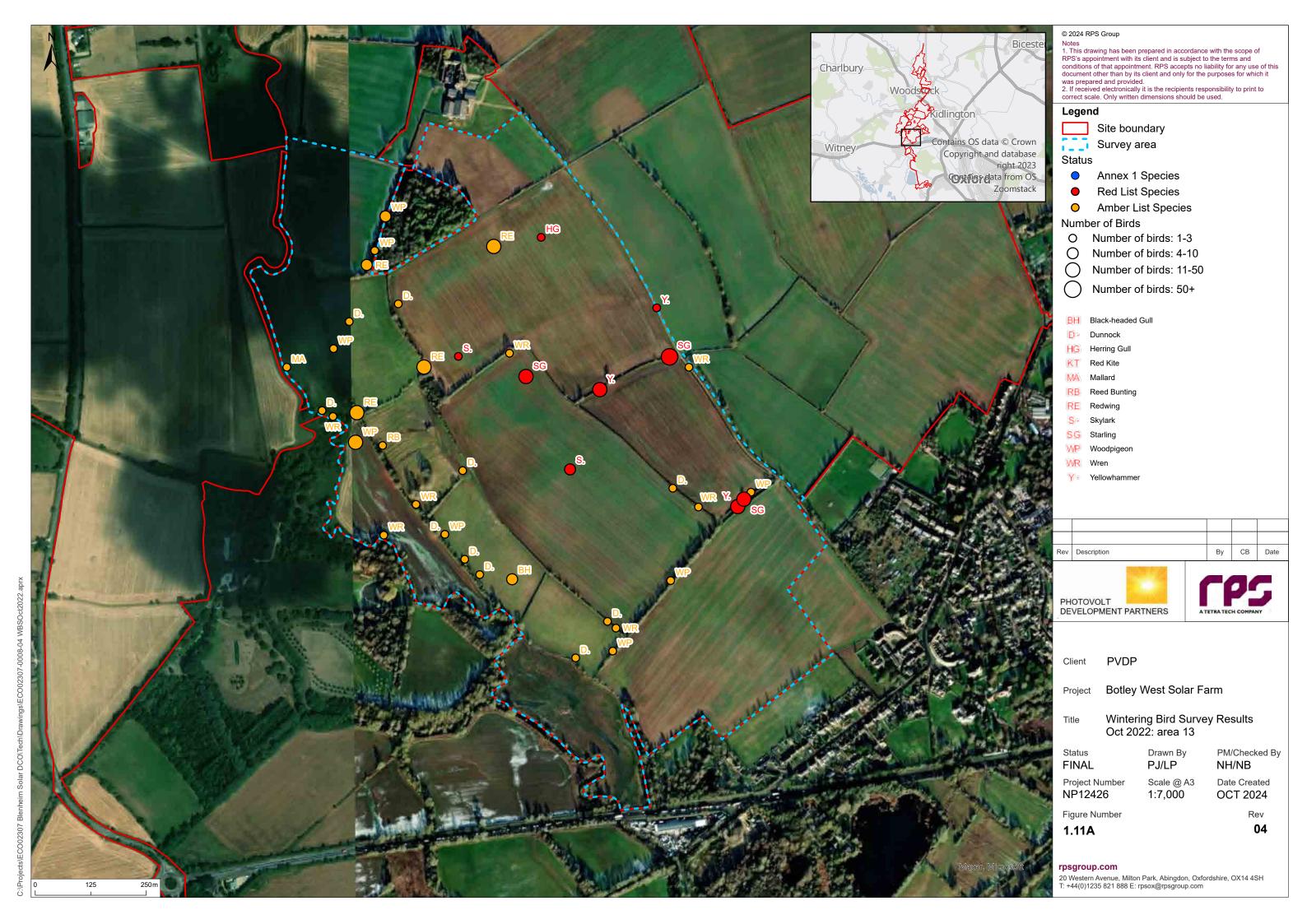


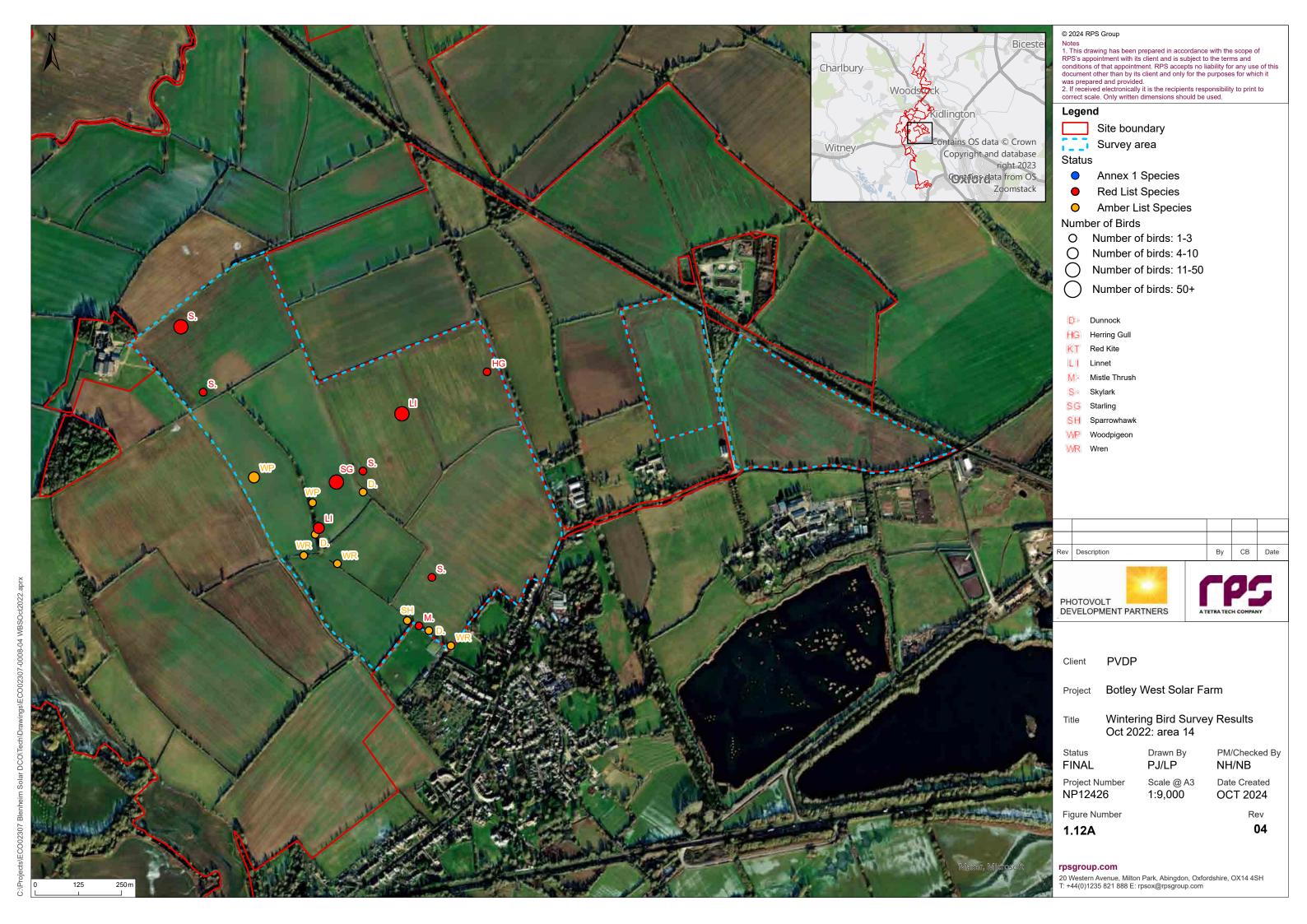














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Site boundary

Annex 1 Species

Red List Species

Amber List Species

Number of Birds

Number of birds: 1-3 Number of birds: 4-10

Number of birds: 11-50

Number of birds: 50+

PHOTOVOLT DEVELOPMENT PARTNERS



PM/Checked By

Rev

NH/NB

PVDP

Botley West Solar Farm

Wintering Bird Survey Results Oct 2022: area 15

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Date Created OCT 2024

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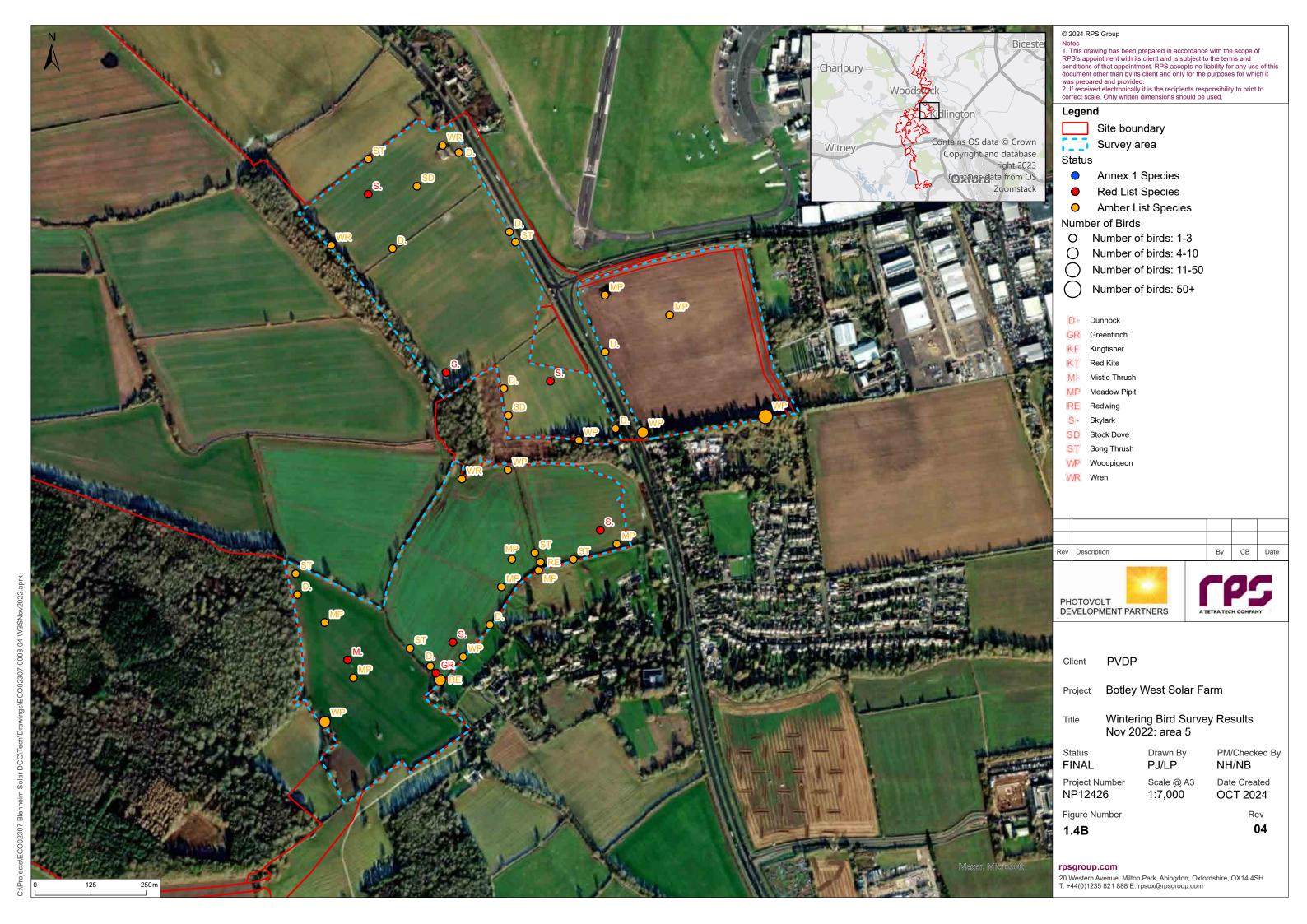
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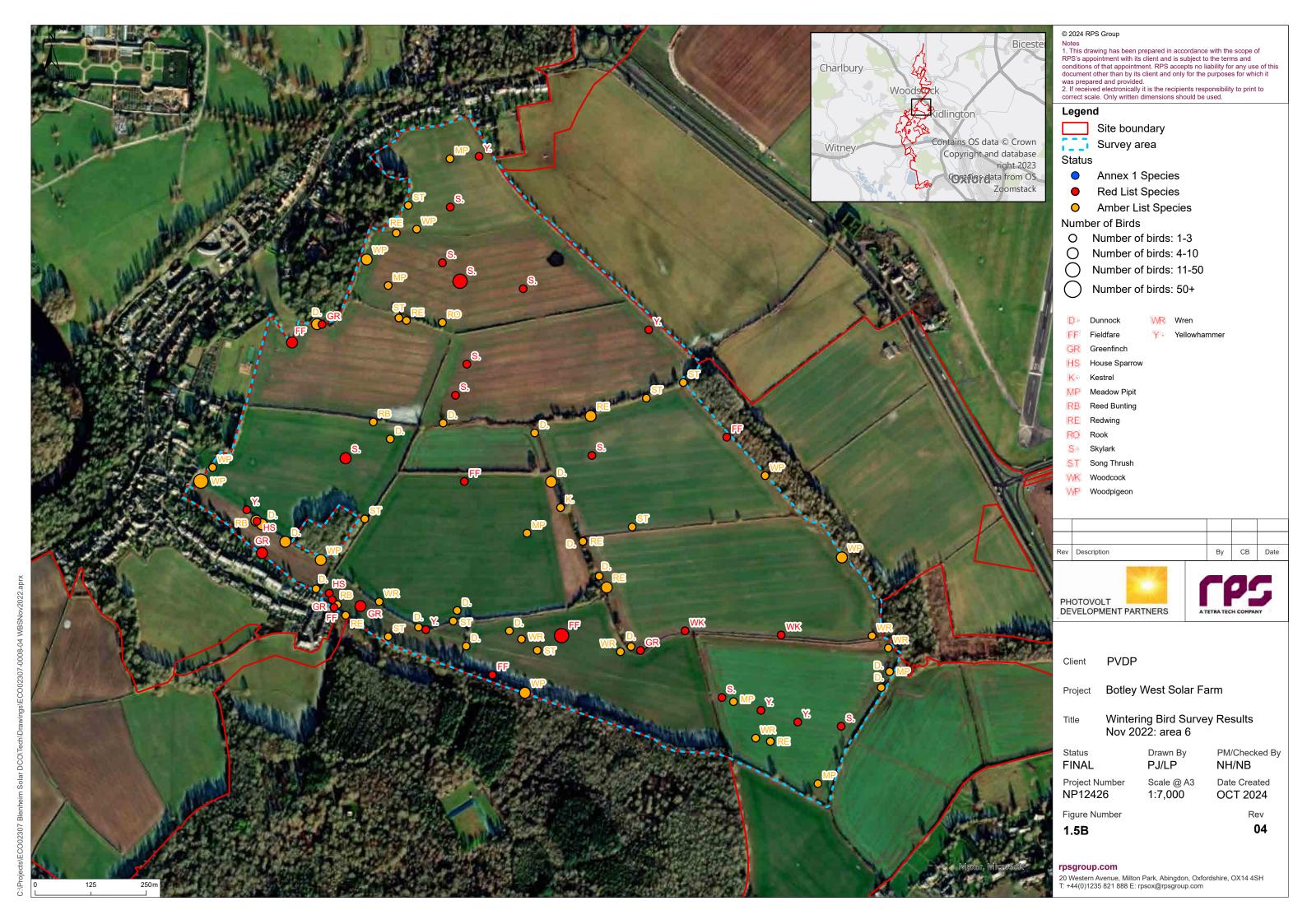


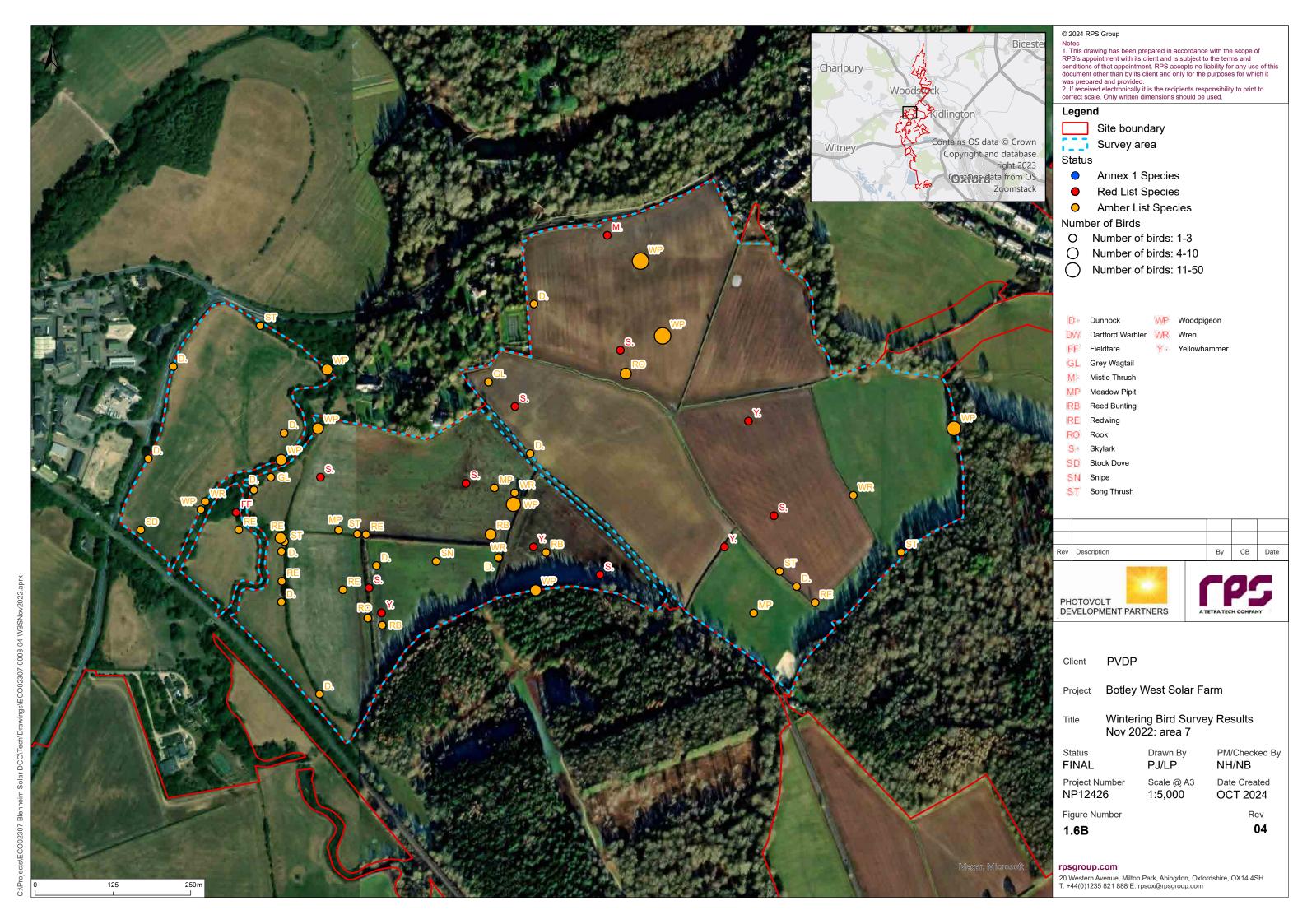


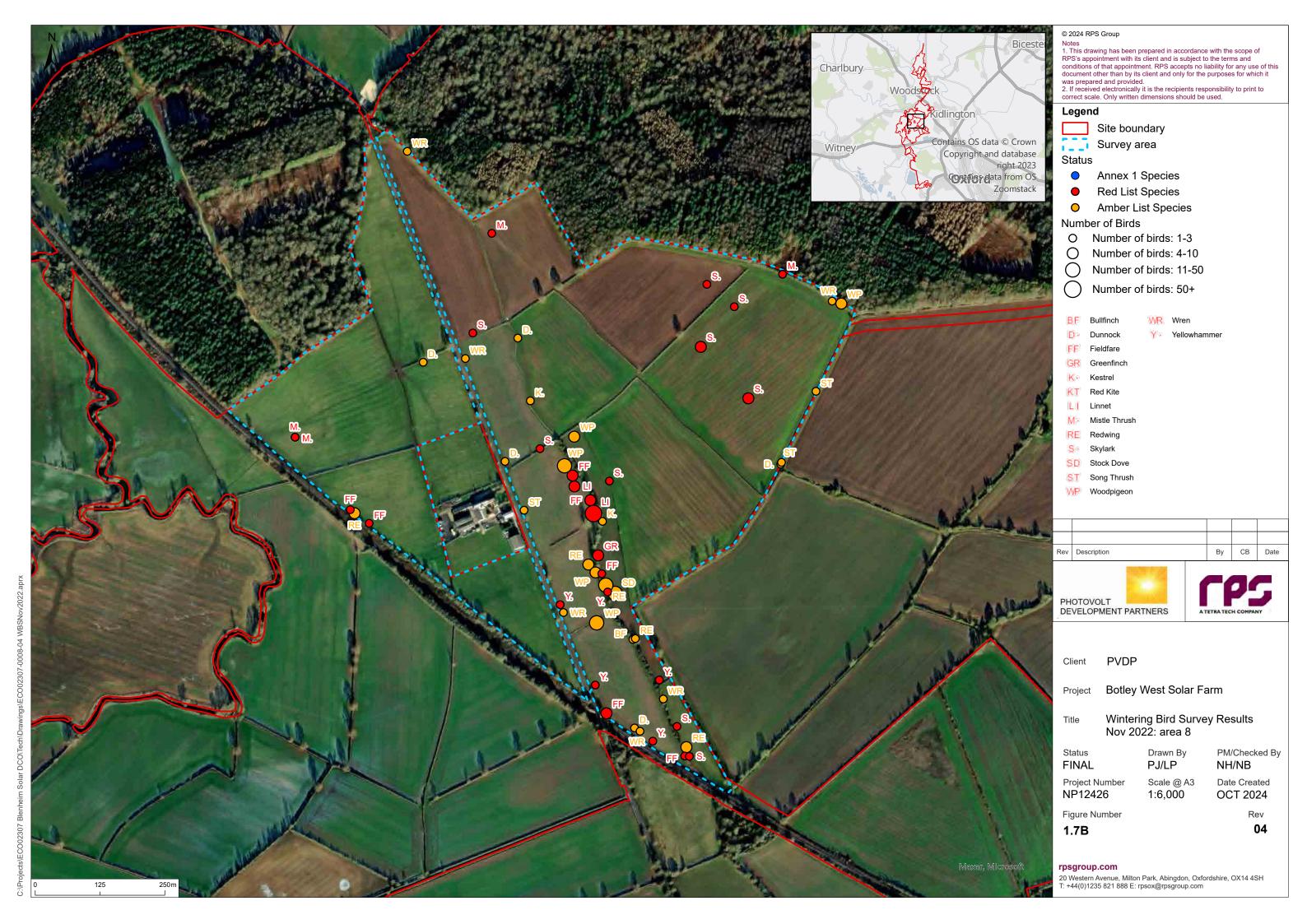


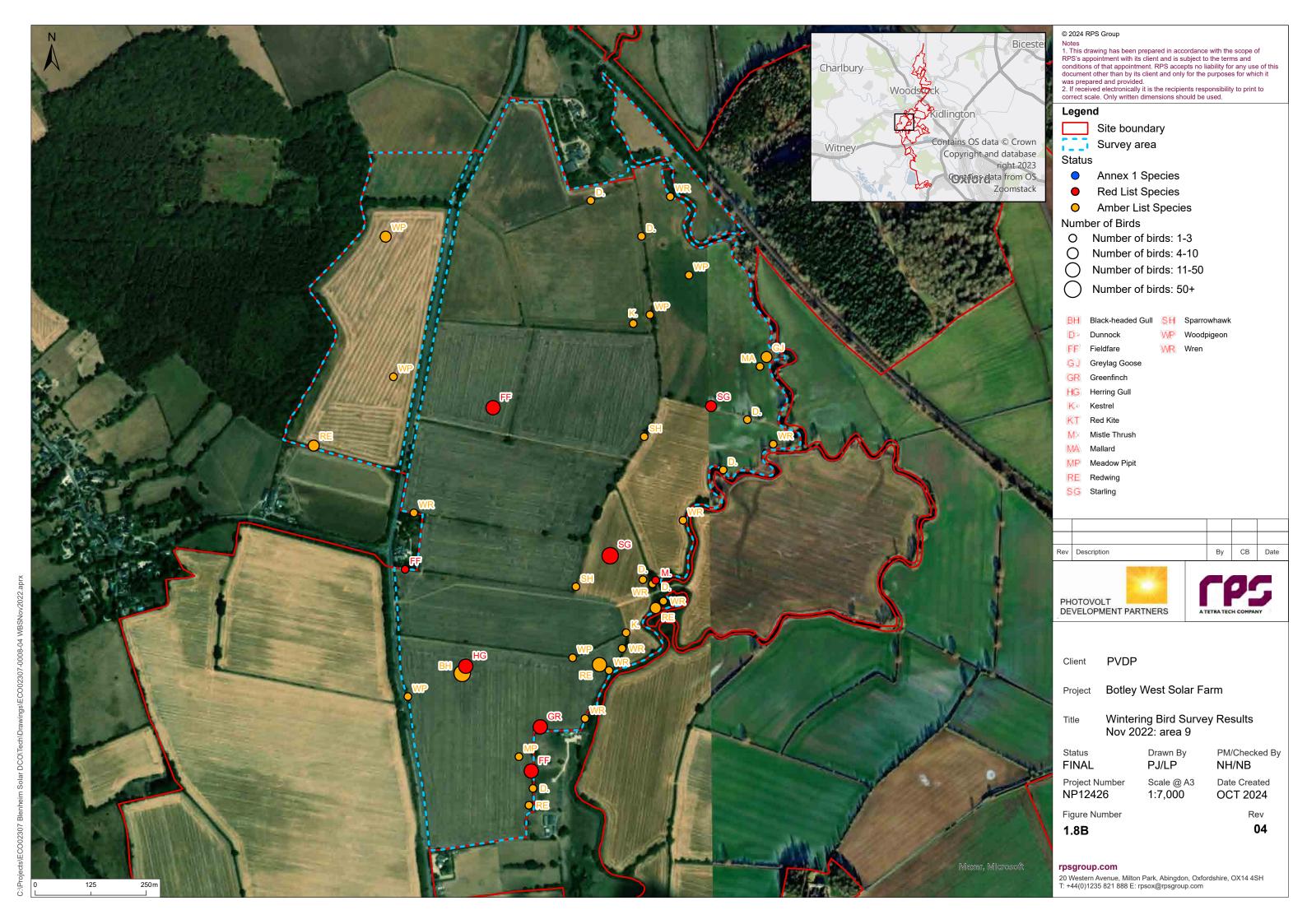




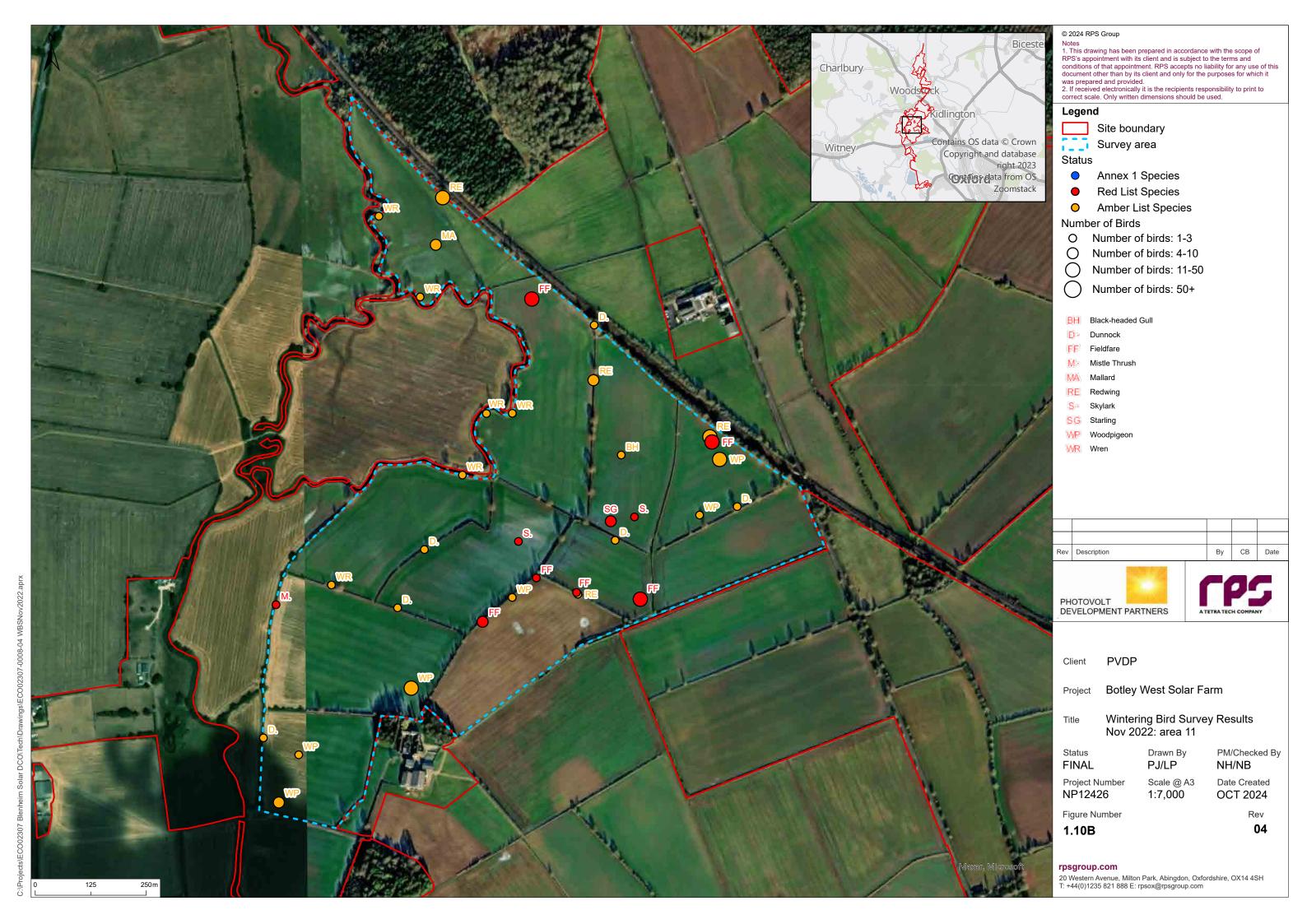


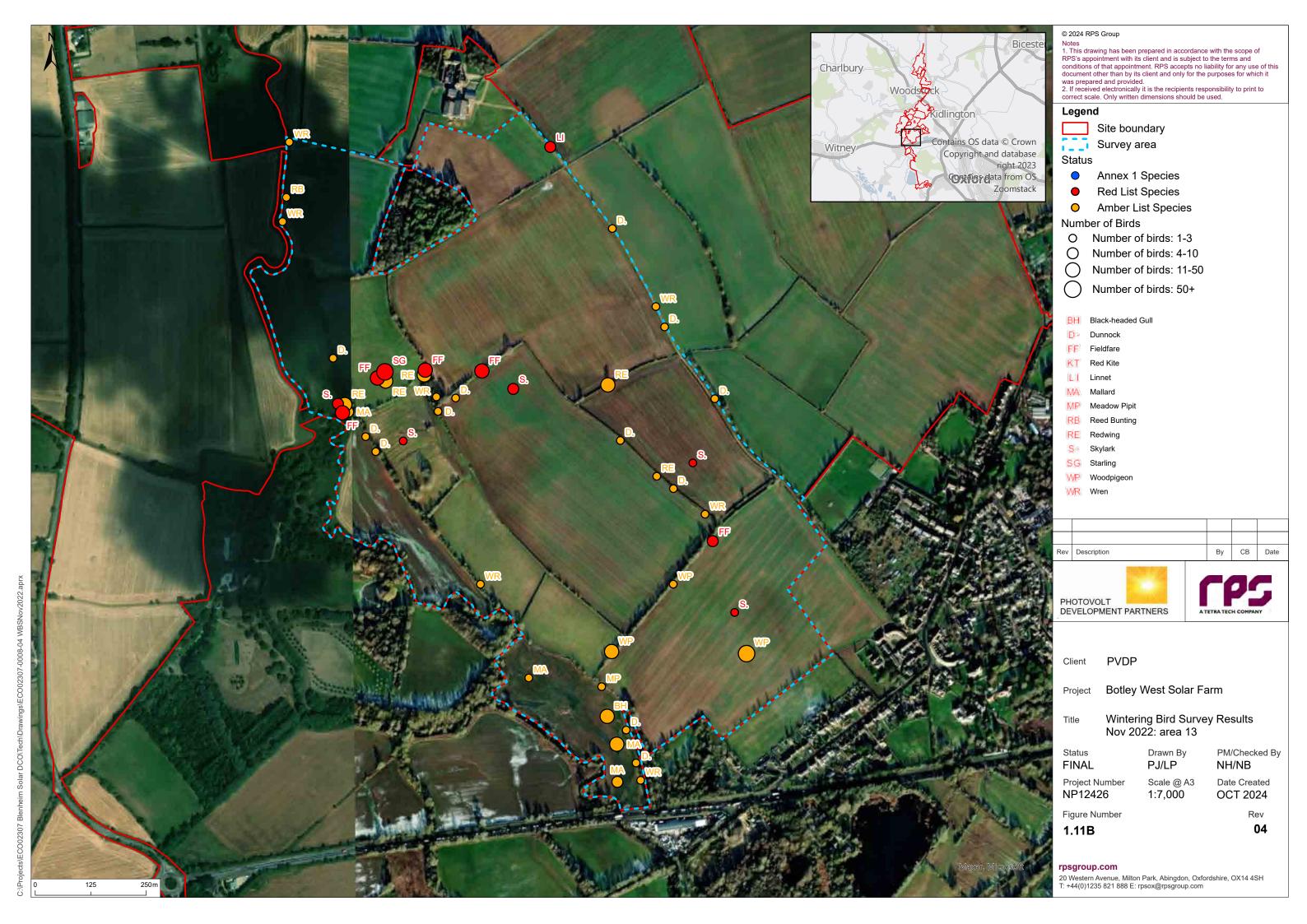


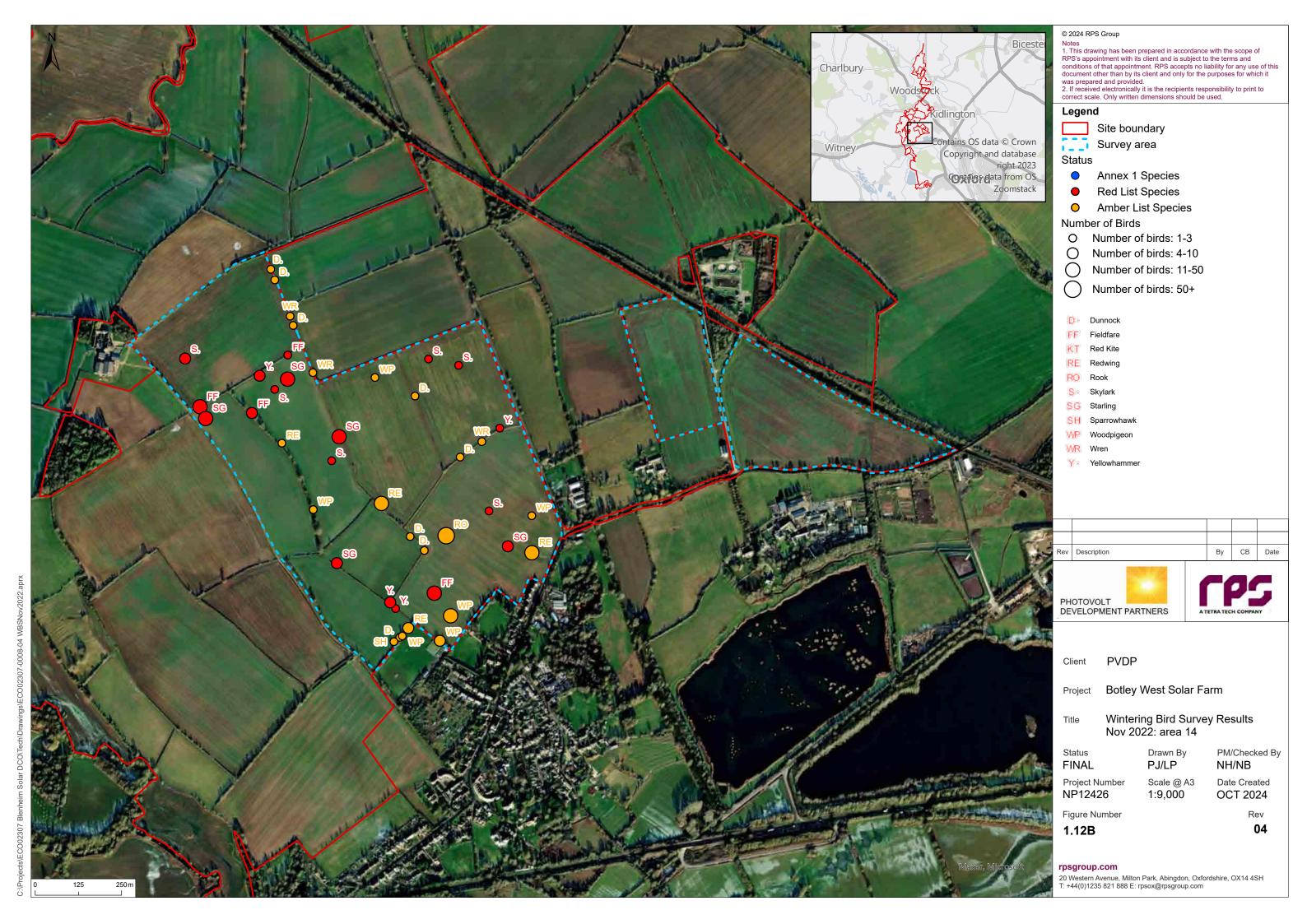














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PVDP

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Wintering Bird Survey Results Nov 2022: area 15

Drawn By PJ/LP Project Number Scale @ A3

NH/NB **Date Created**

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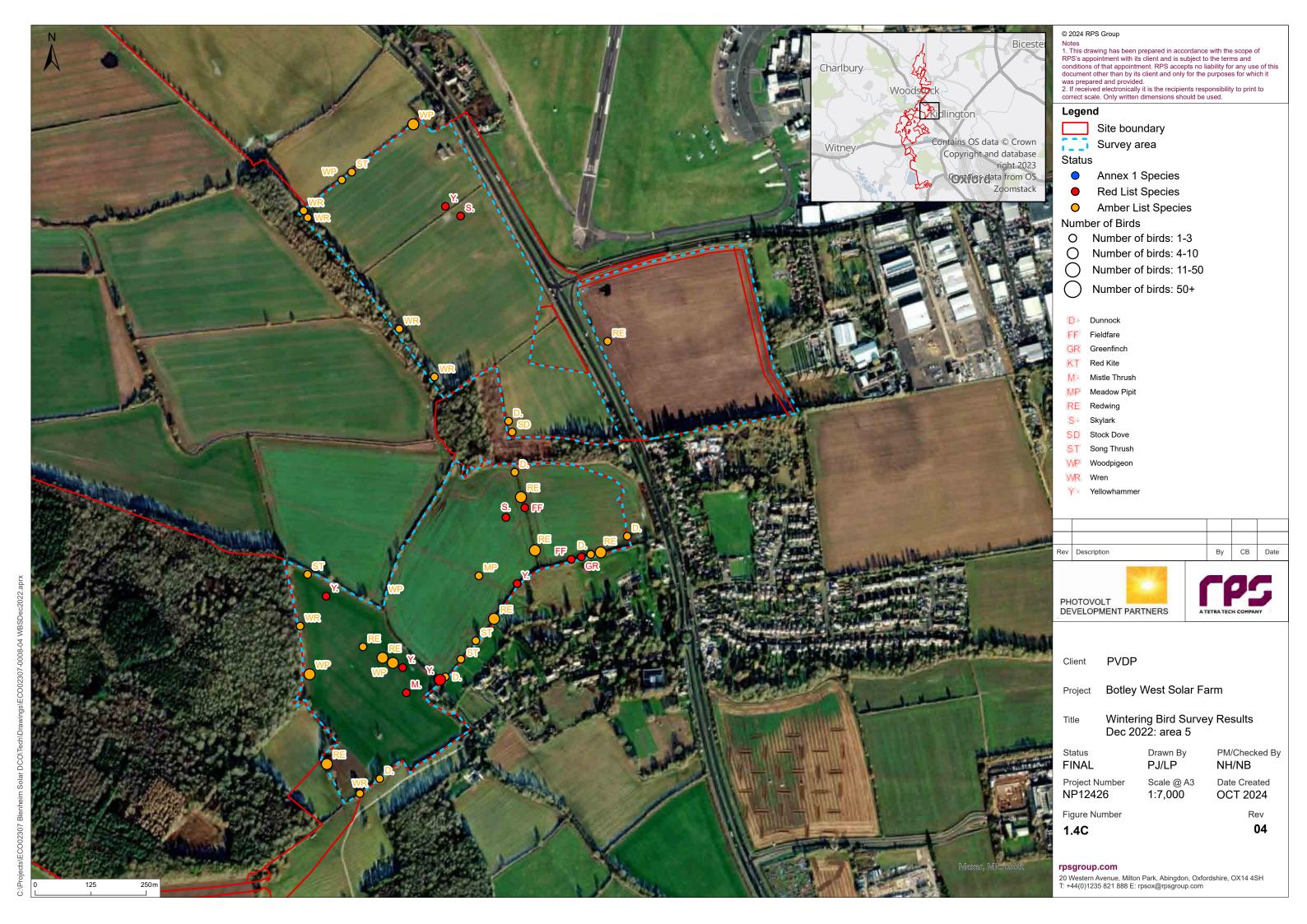
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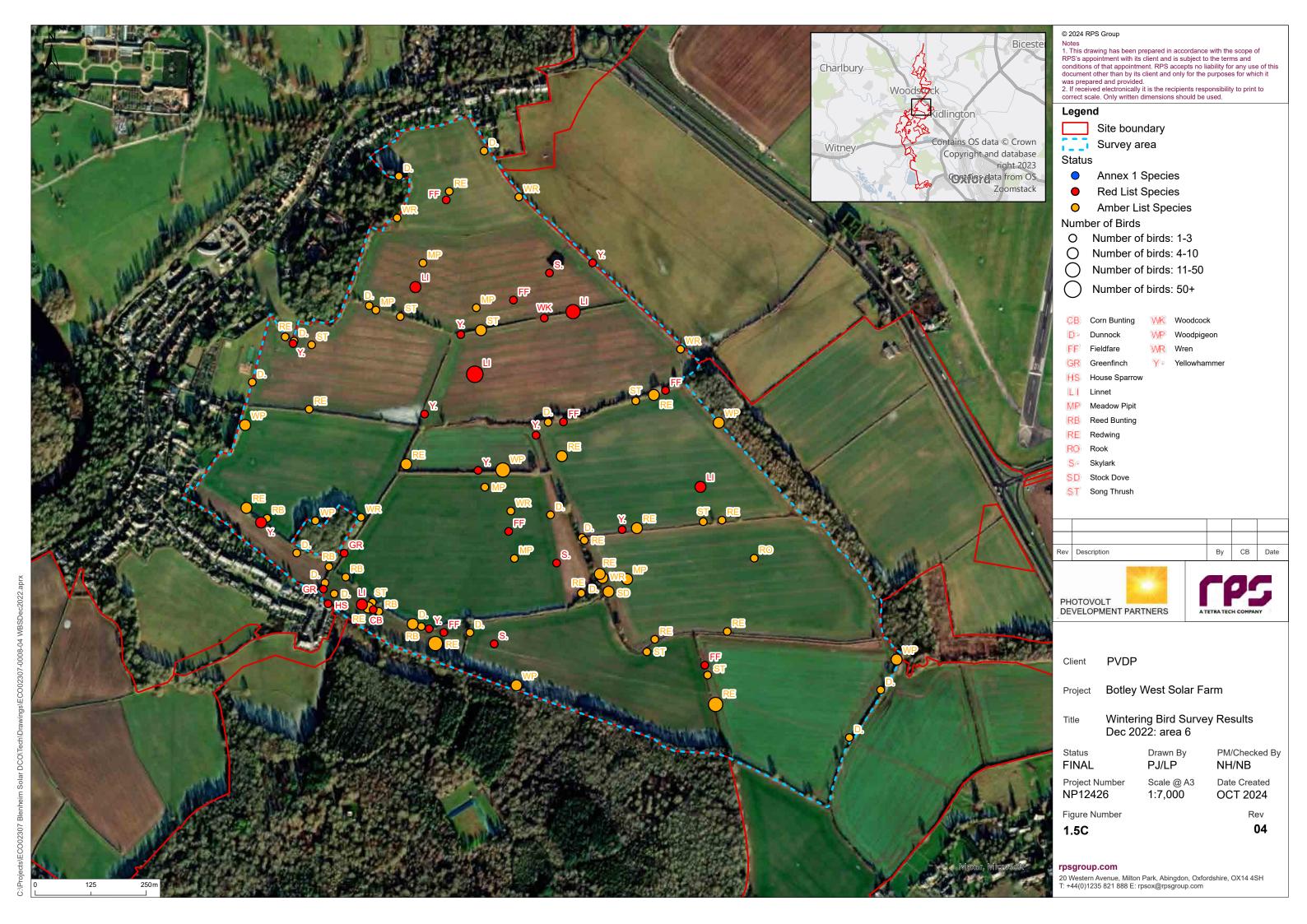


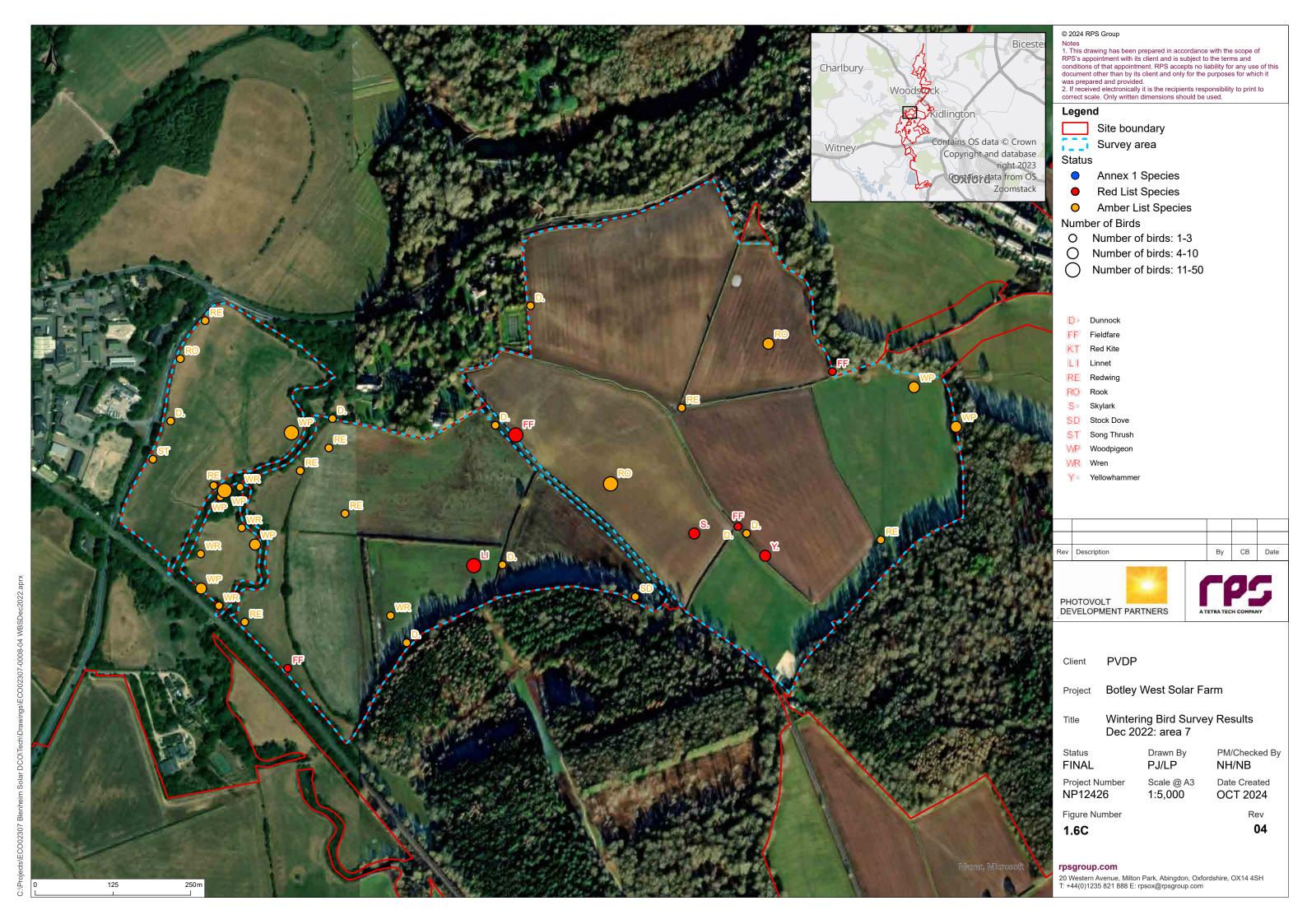


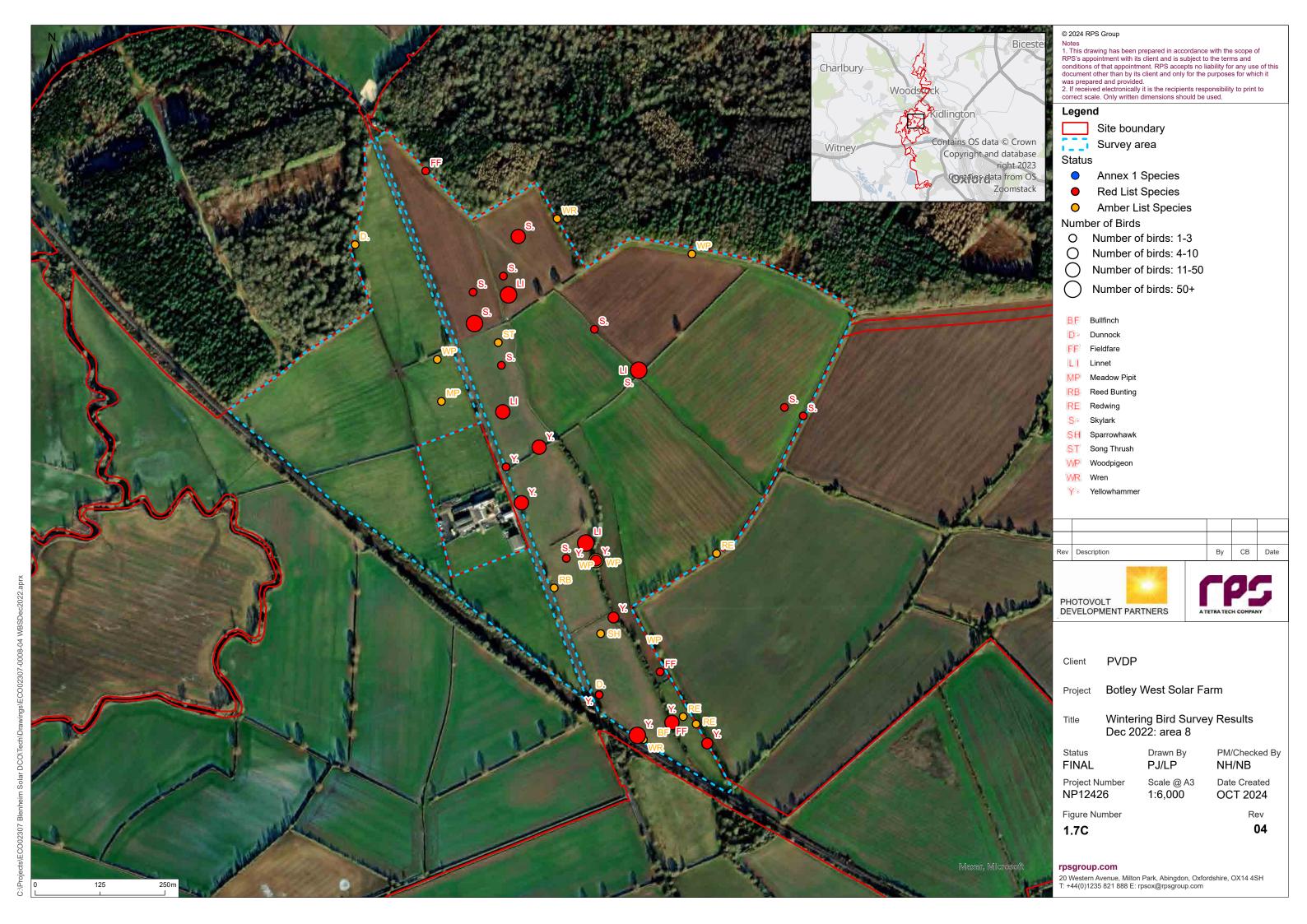


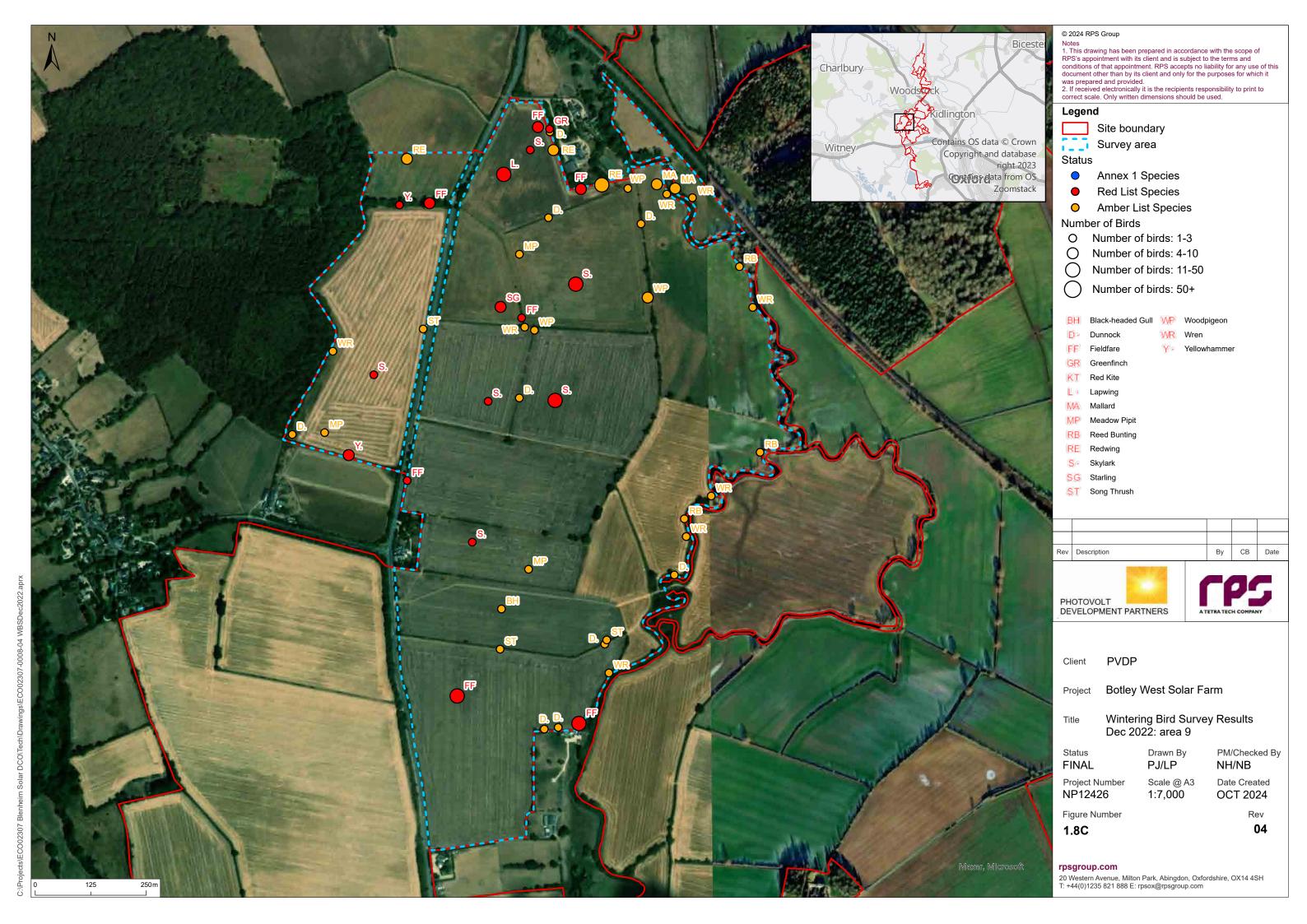




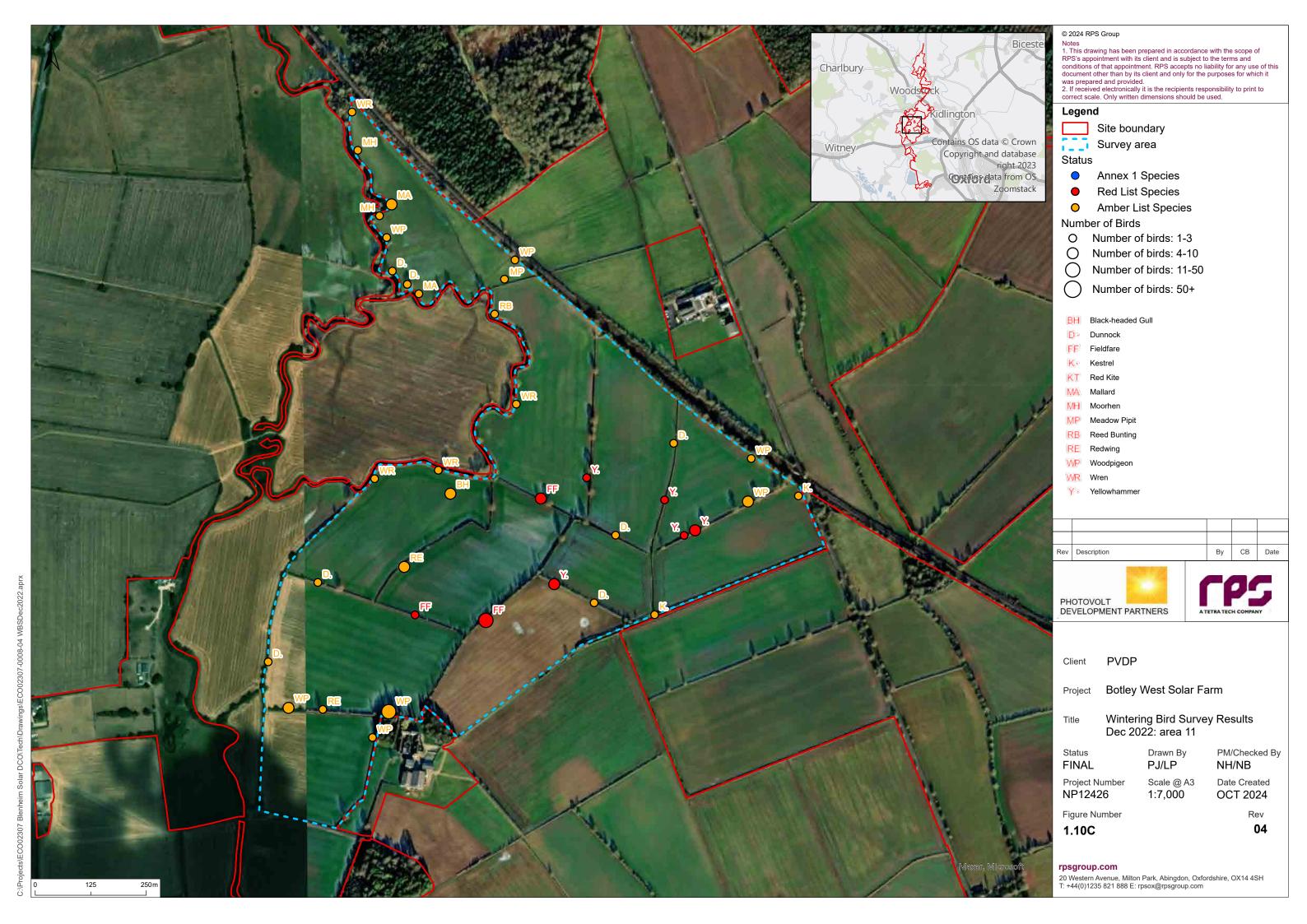


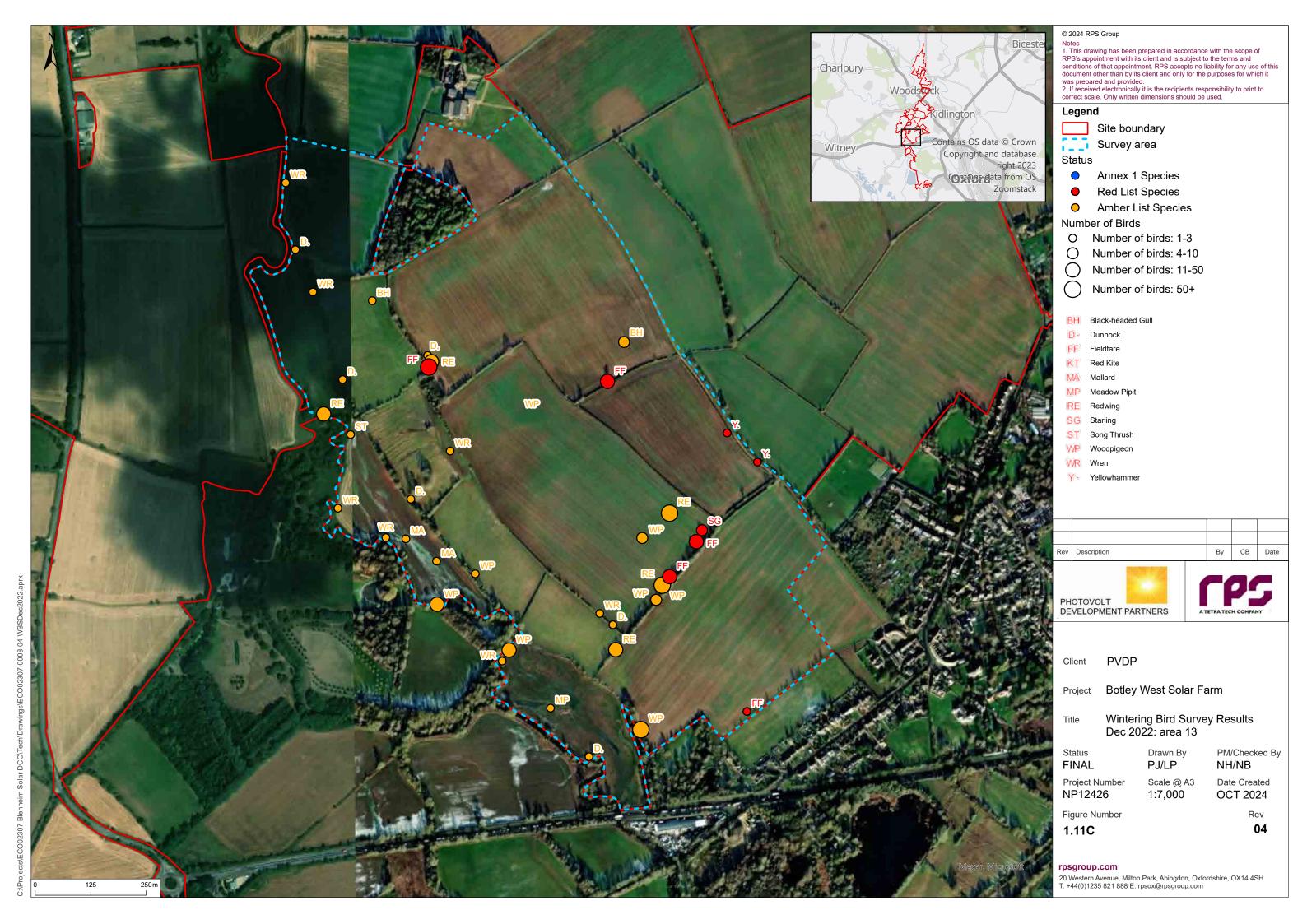


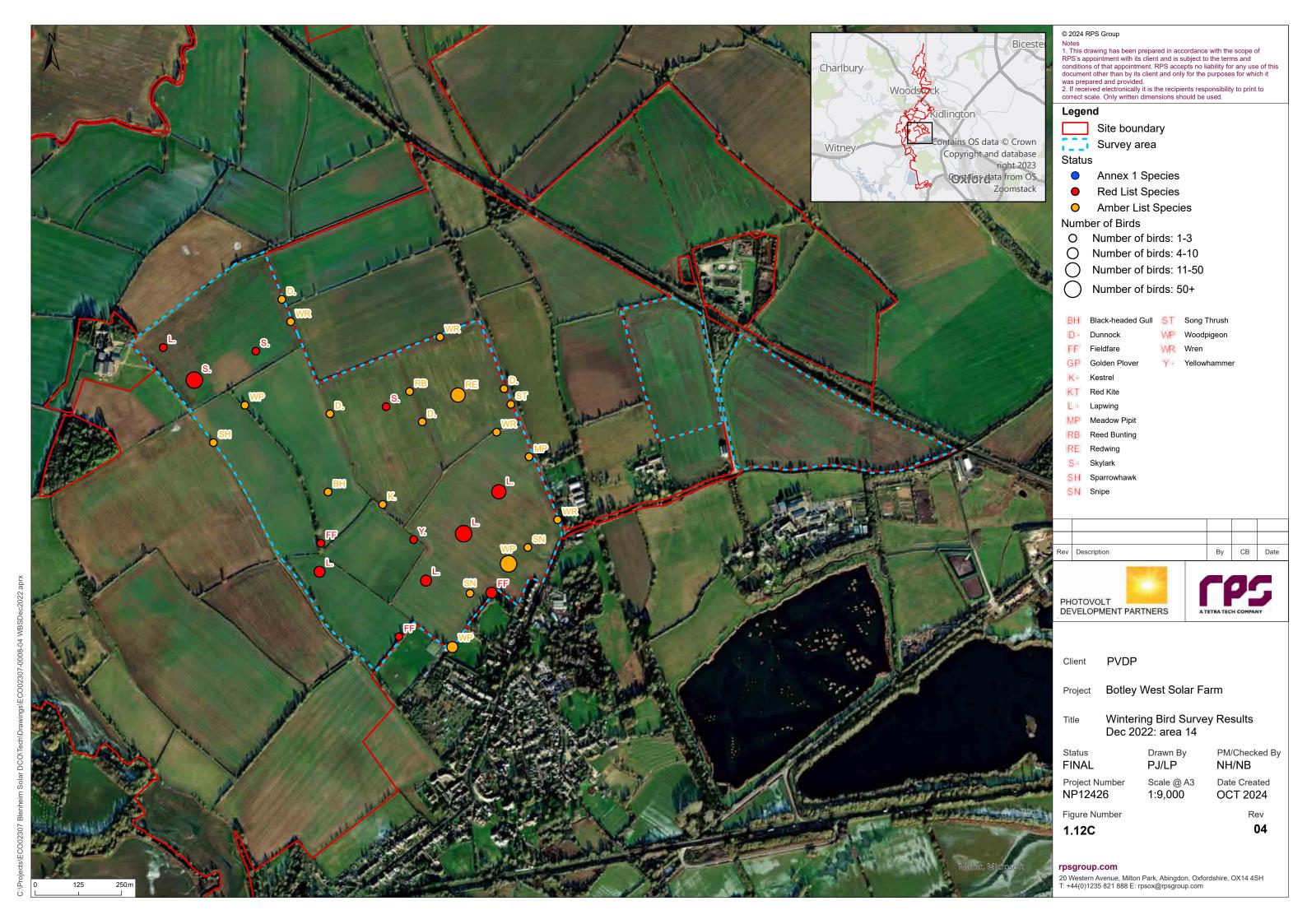














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PHOTOVOLT DEVELOPMENT PARTNERS



PVDP

Botley West Solar Farm

Wintering Bird Survey Results Dec 2022: area 15

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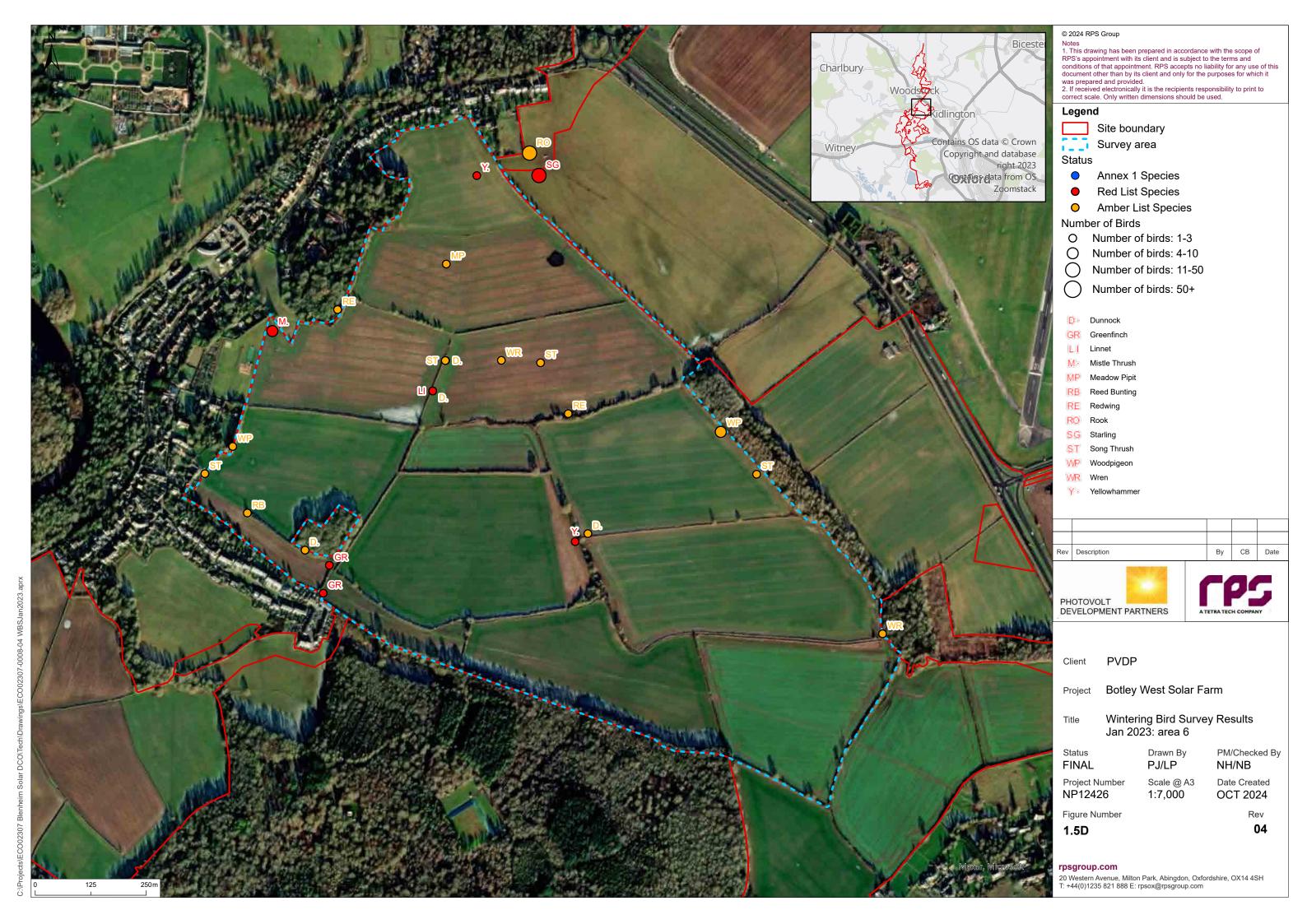


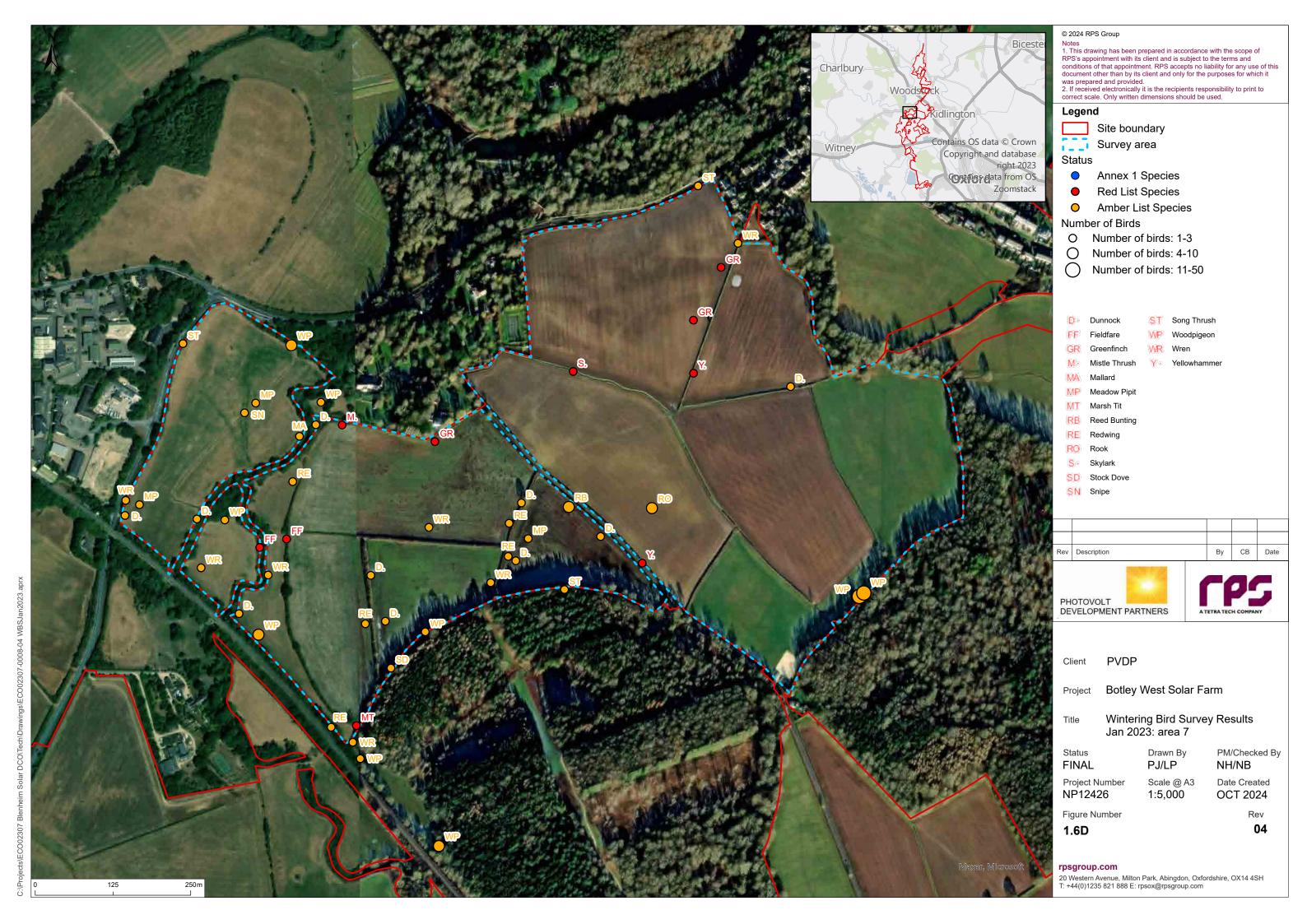


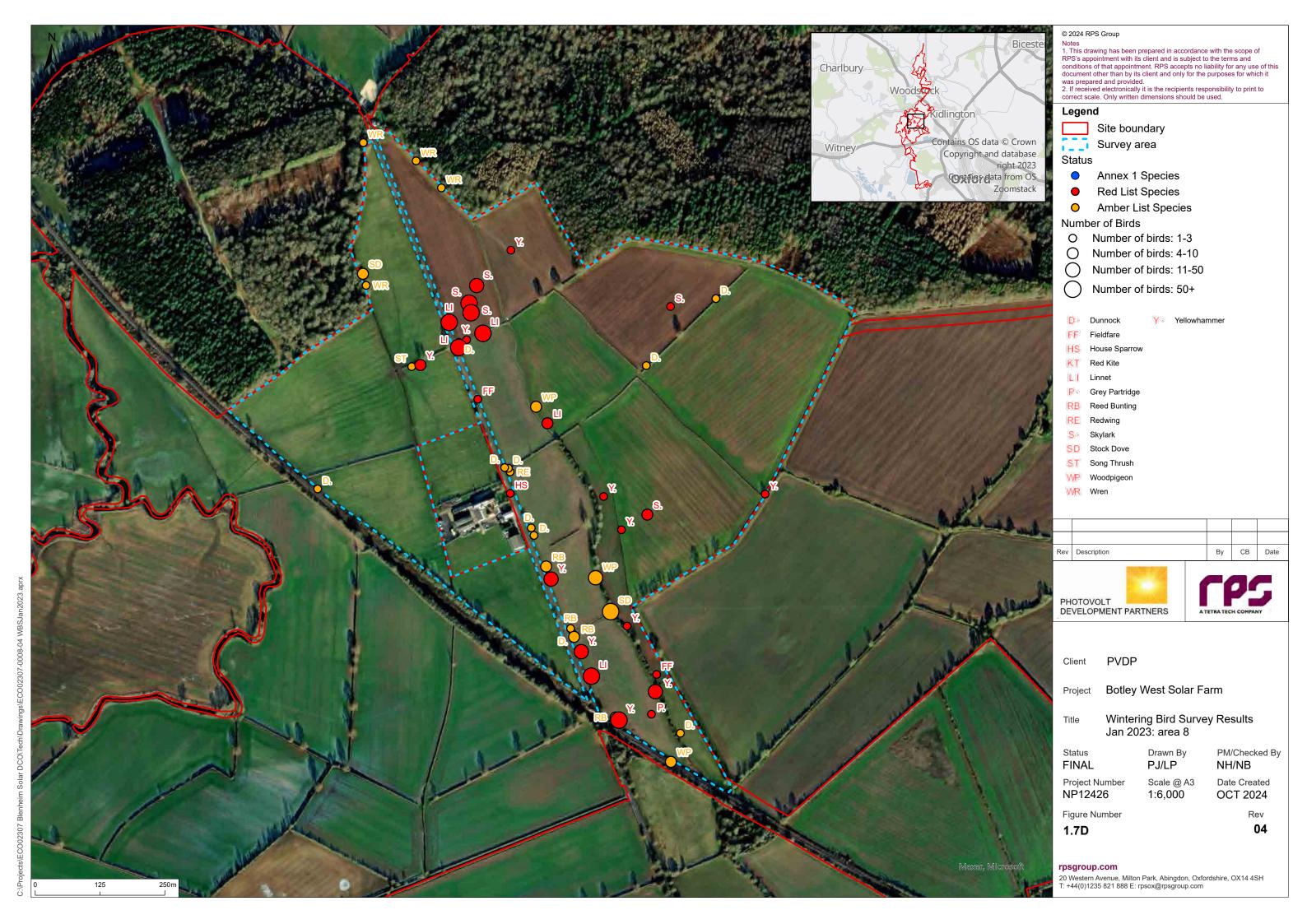


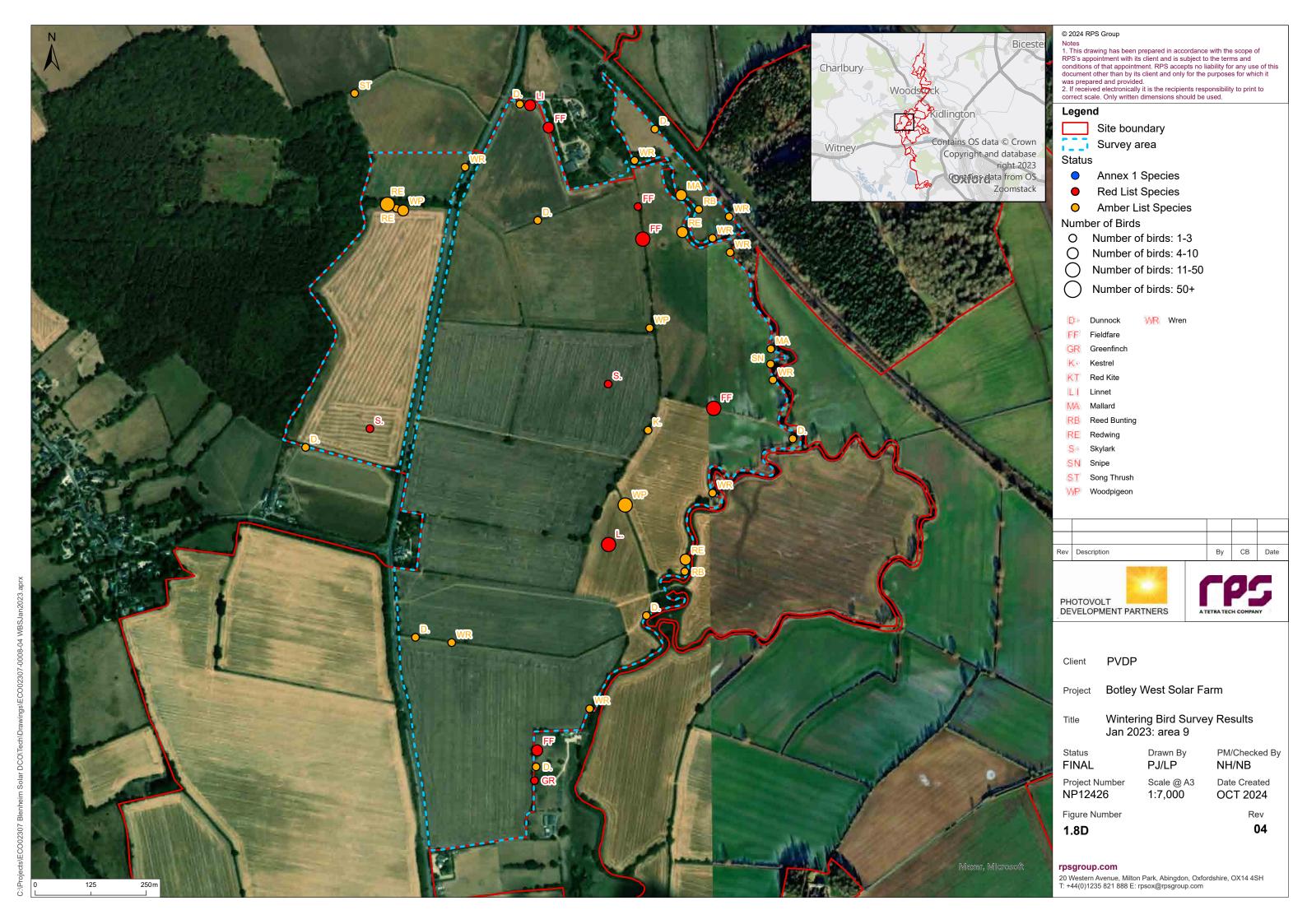


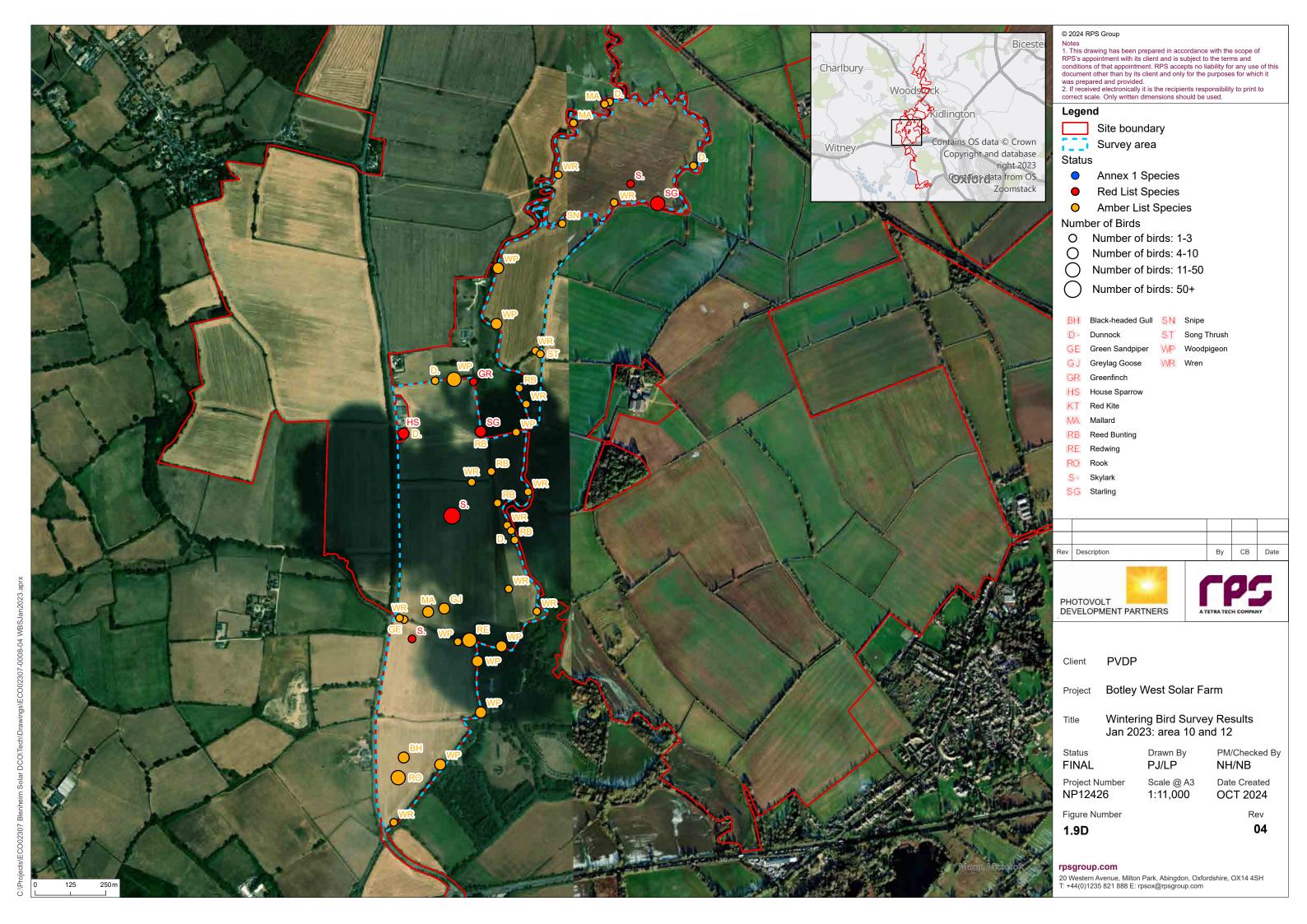


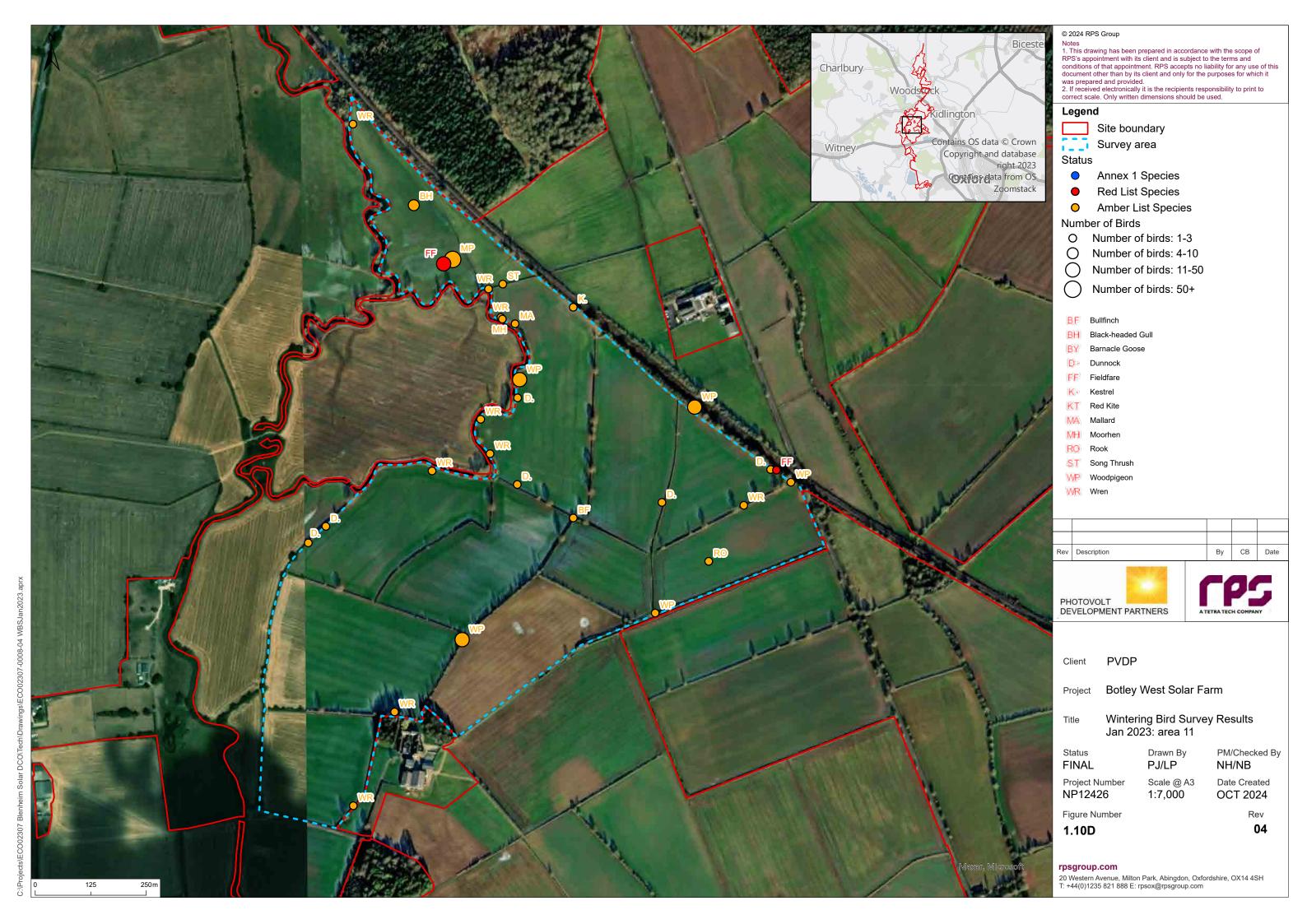




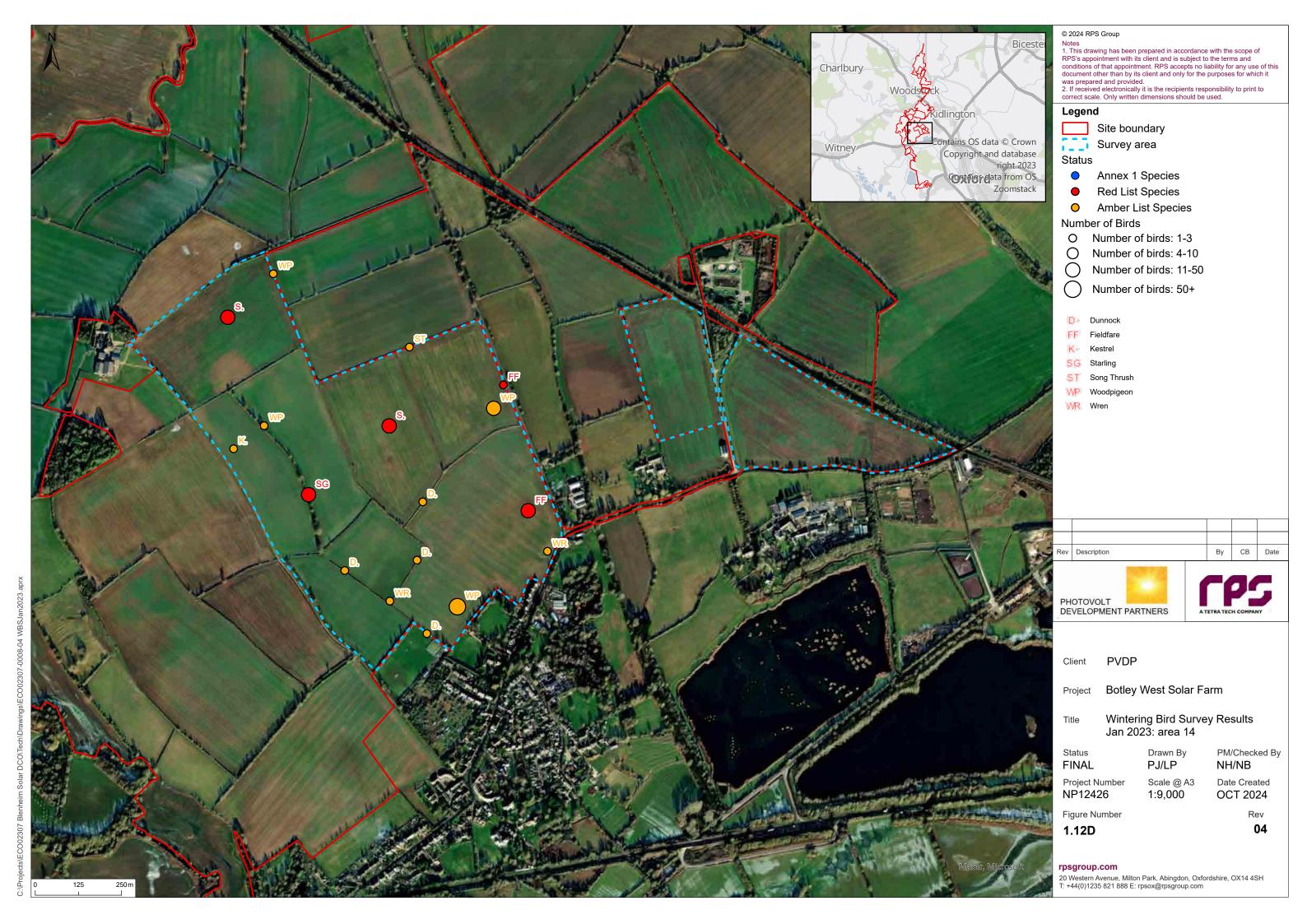














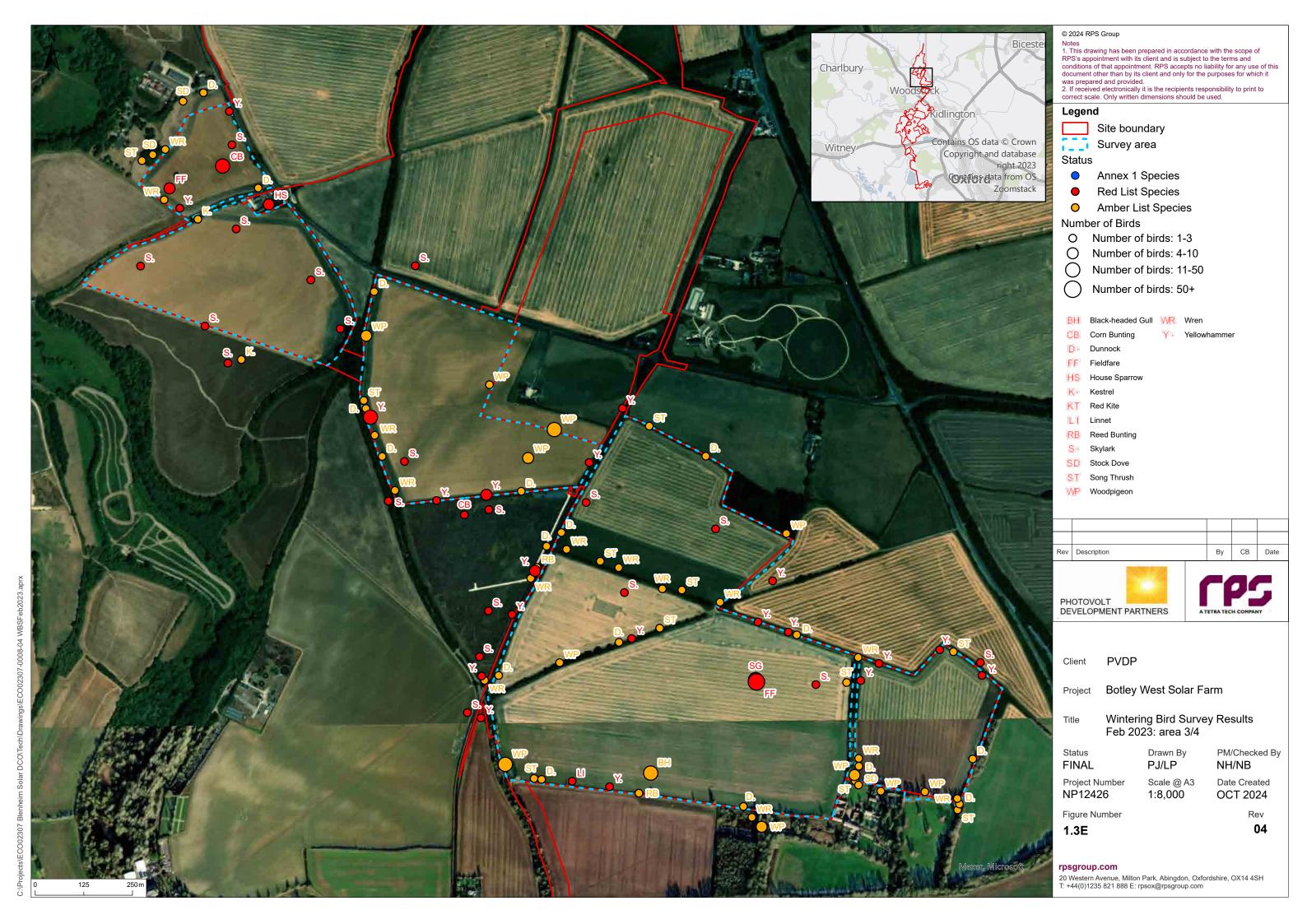


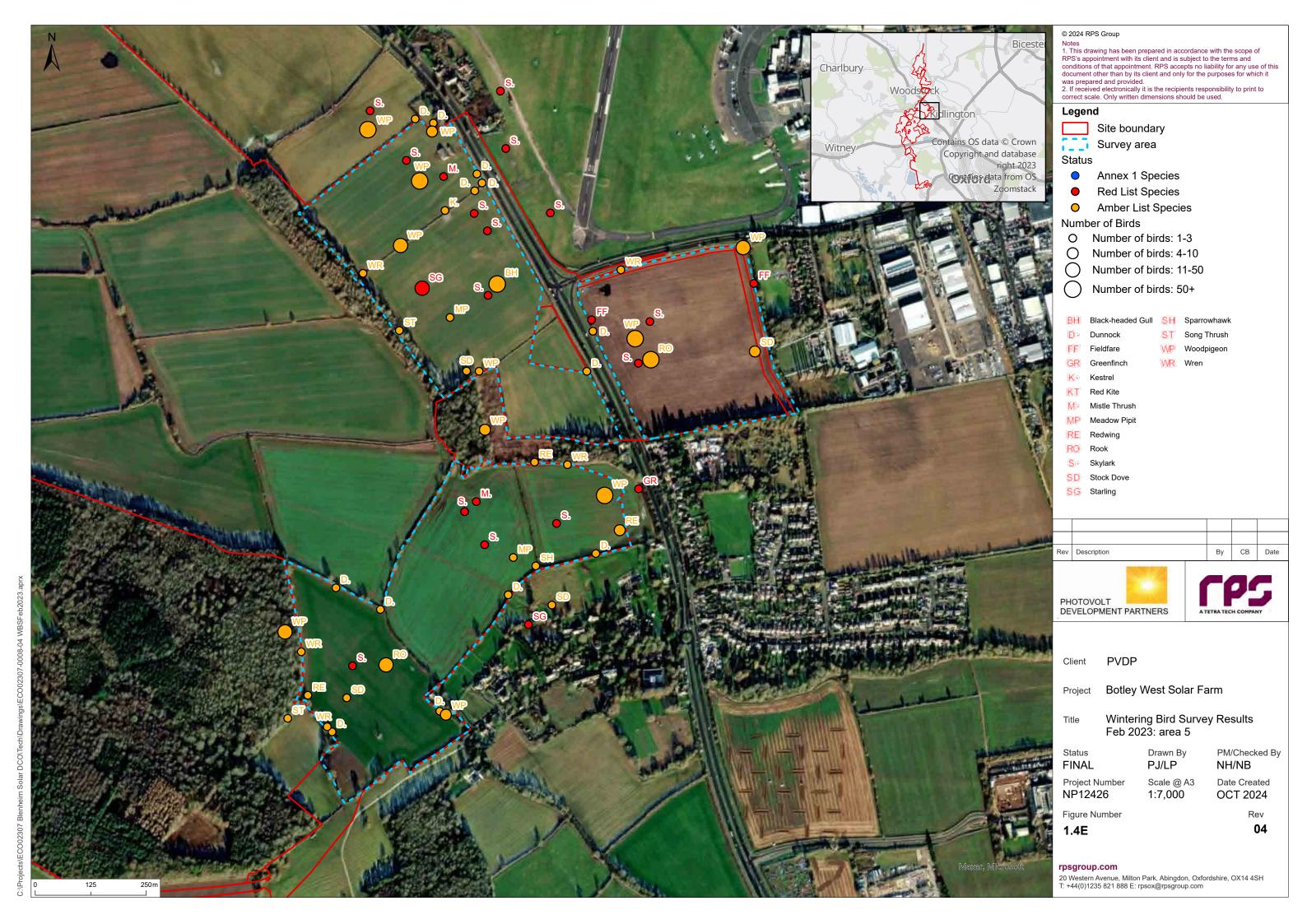


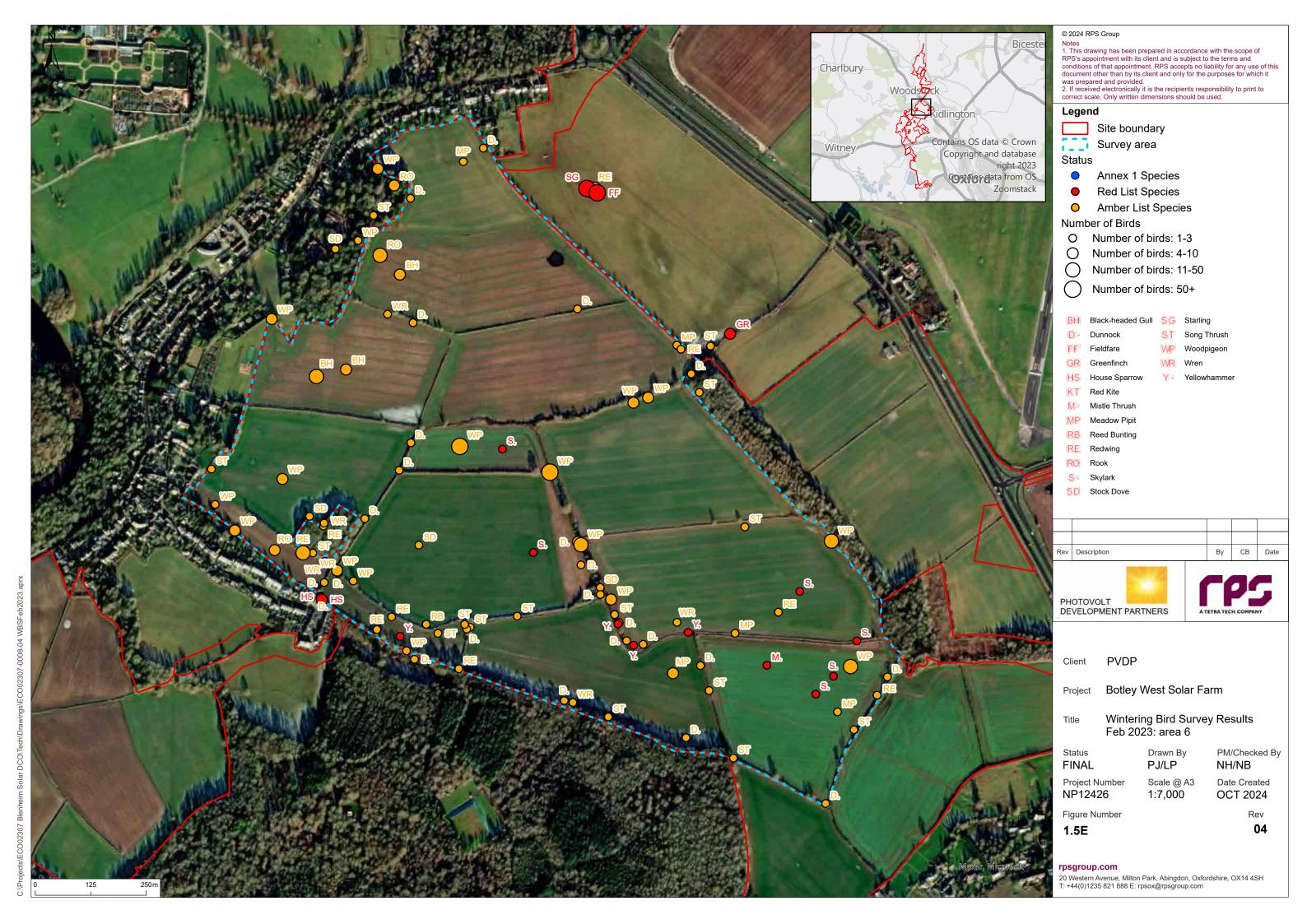


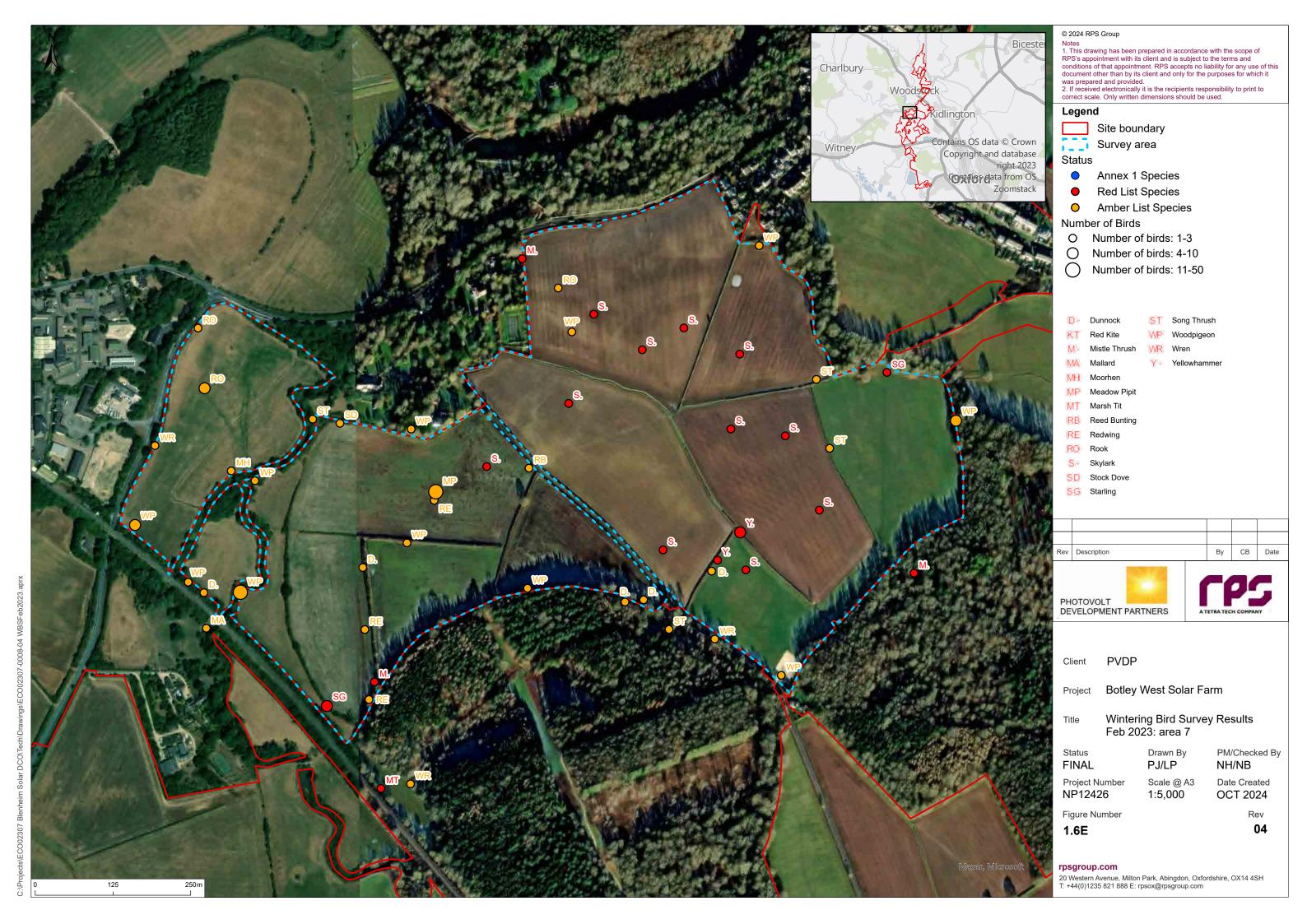
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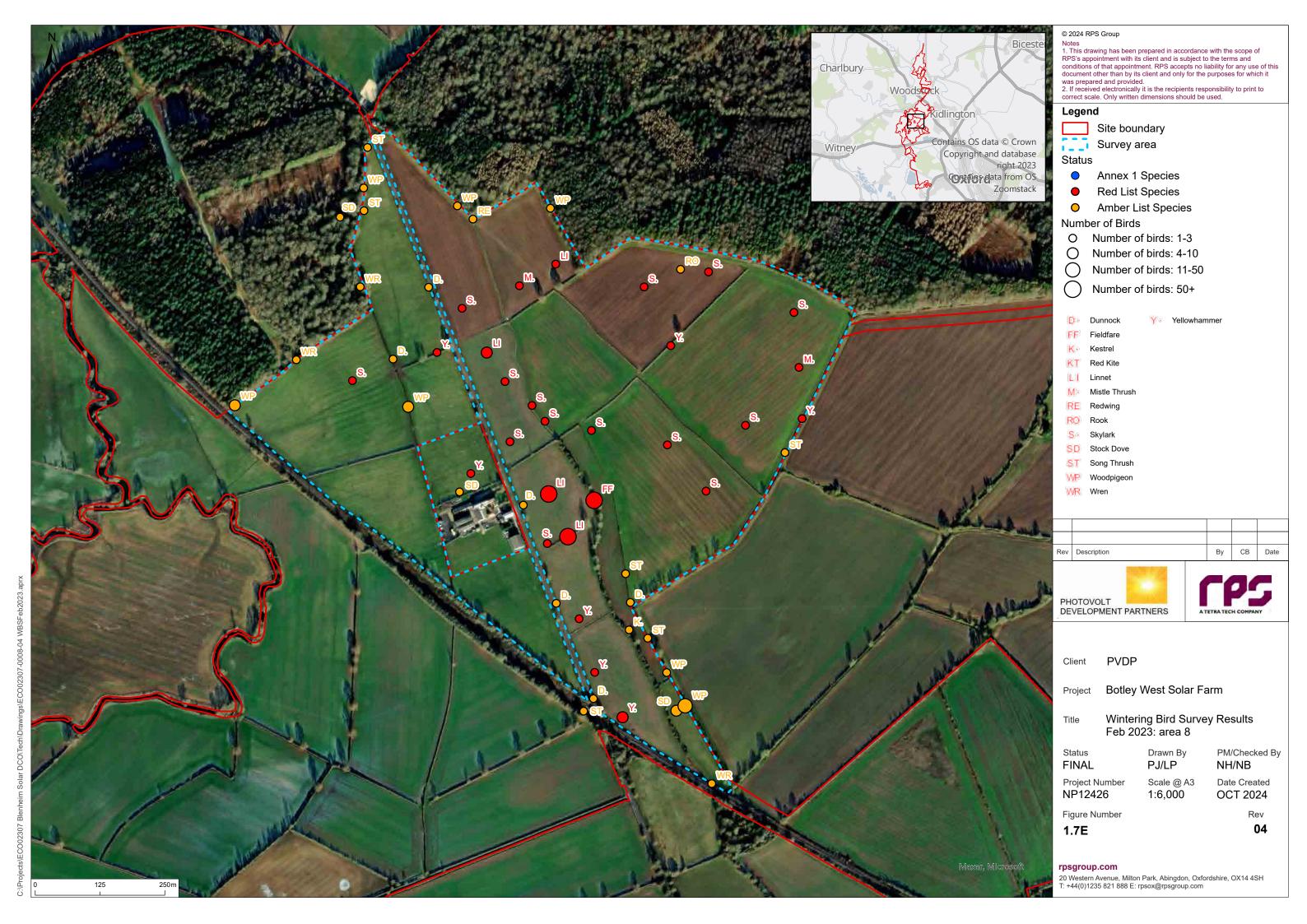
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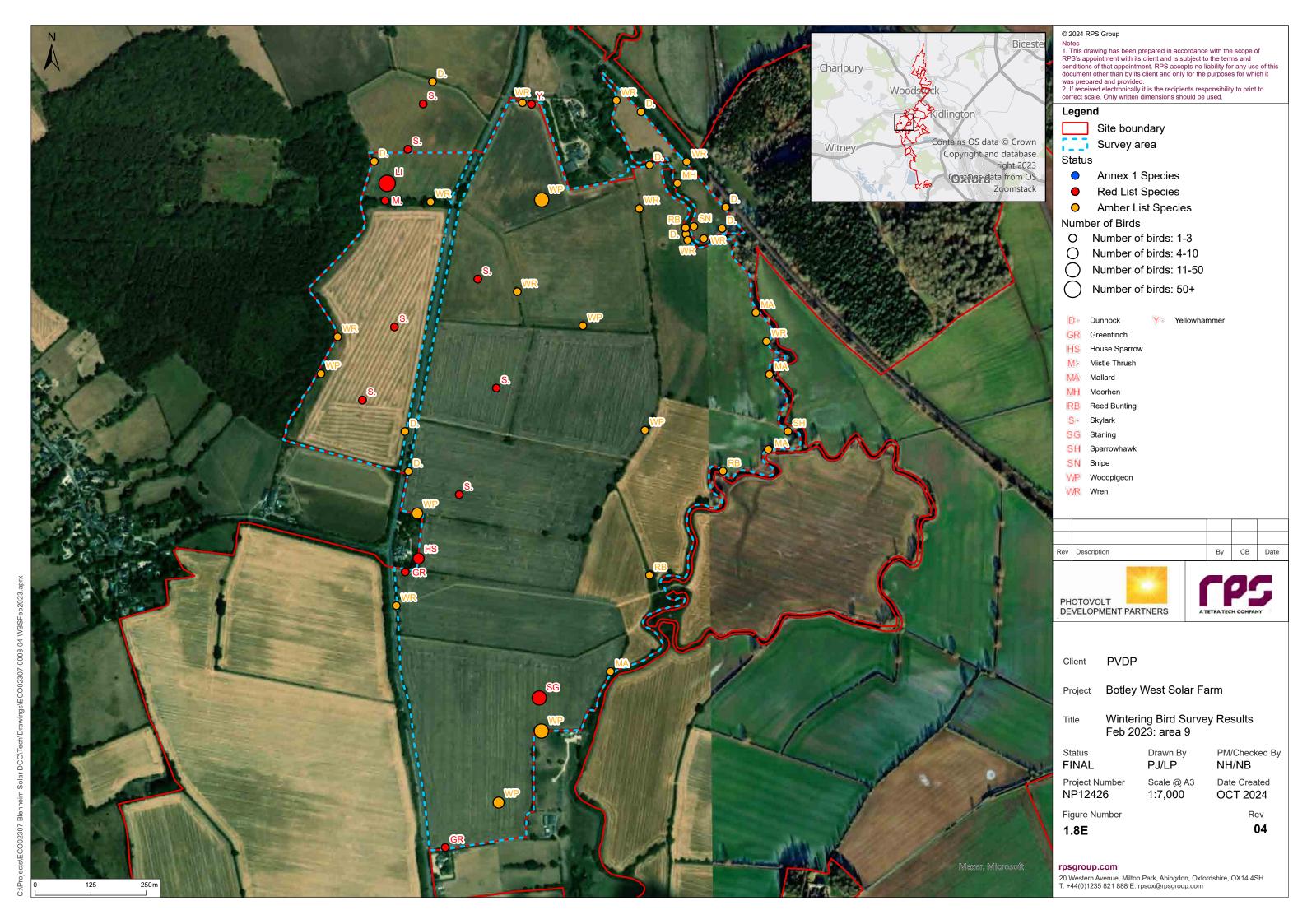


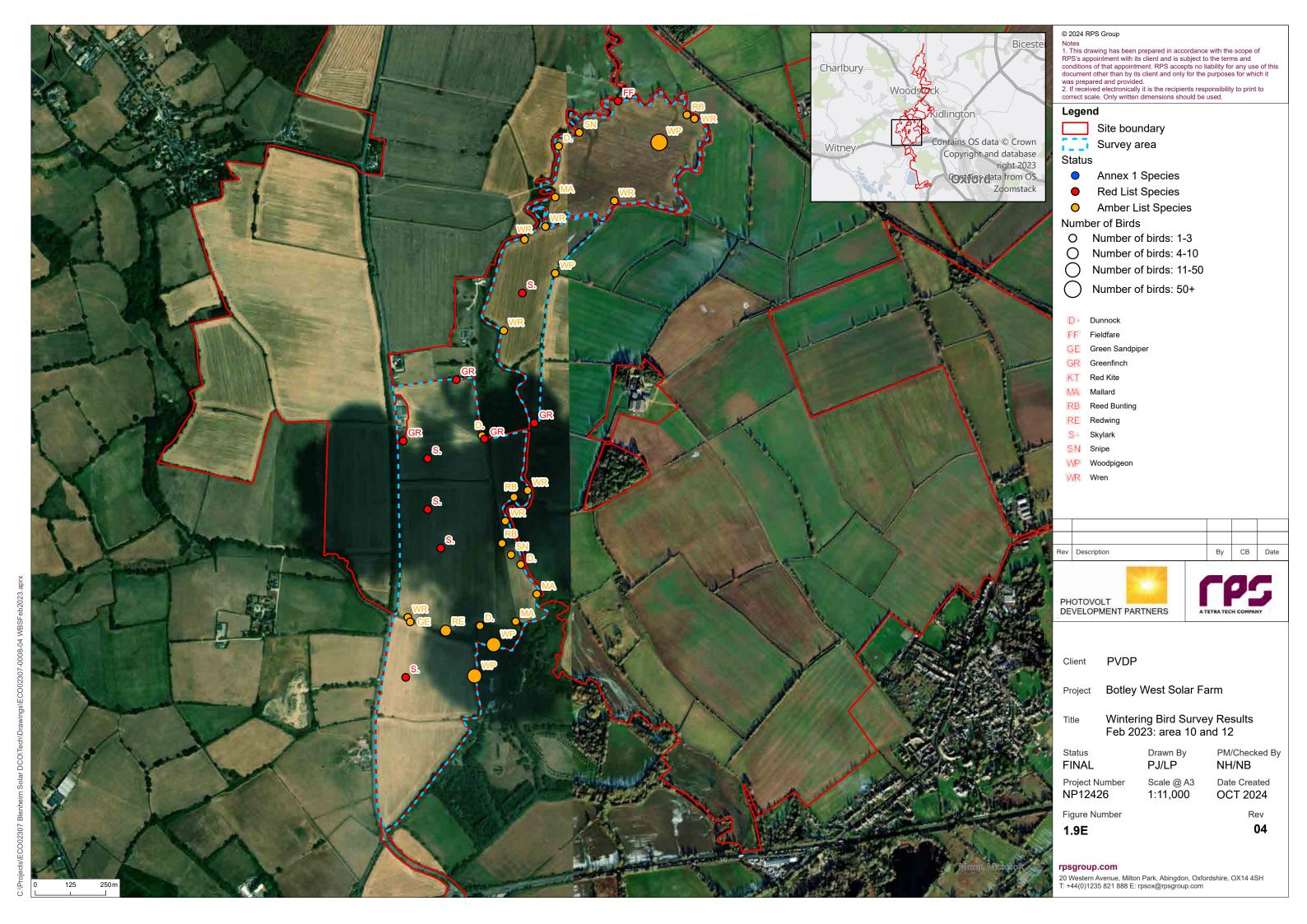


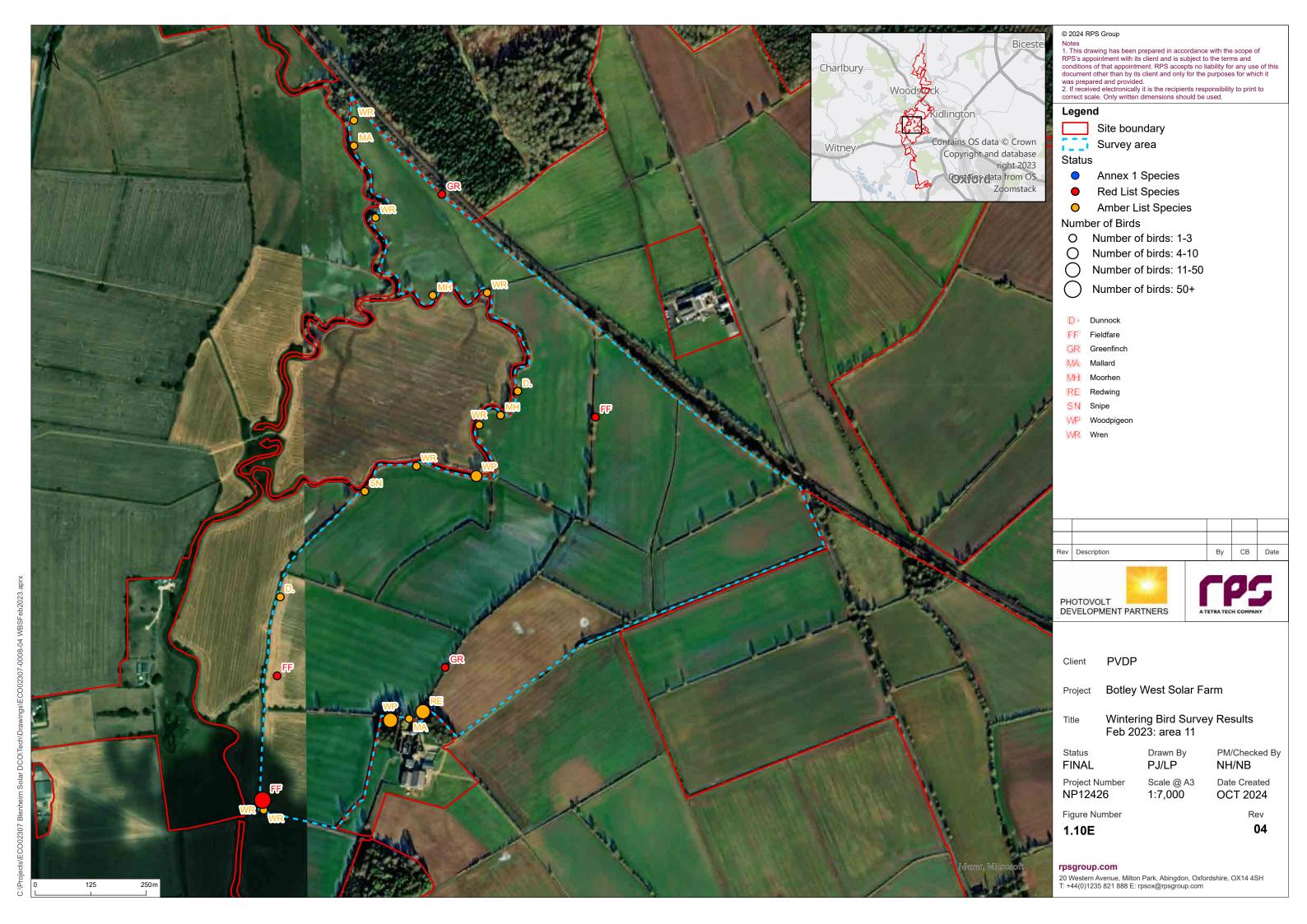


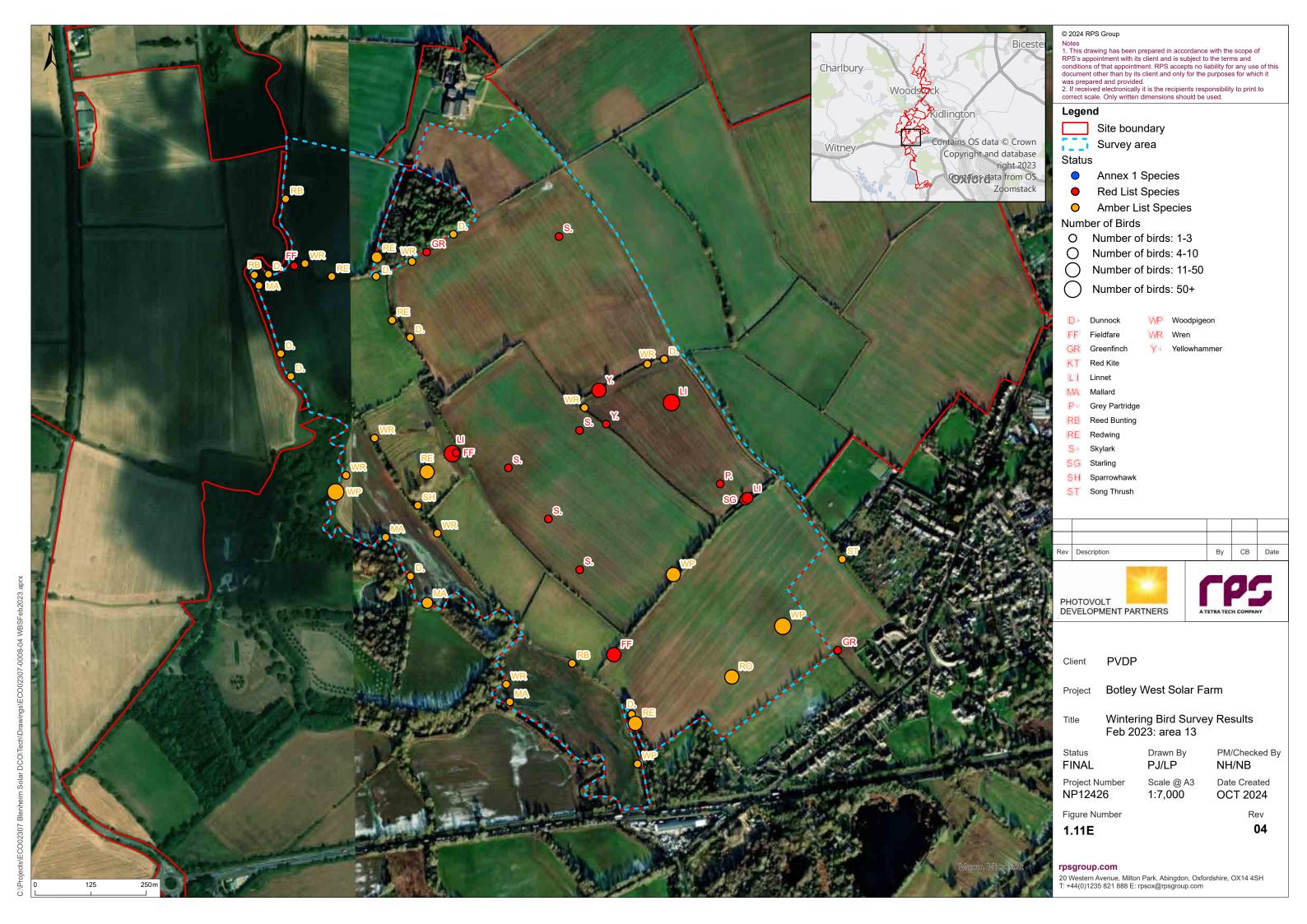


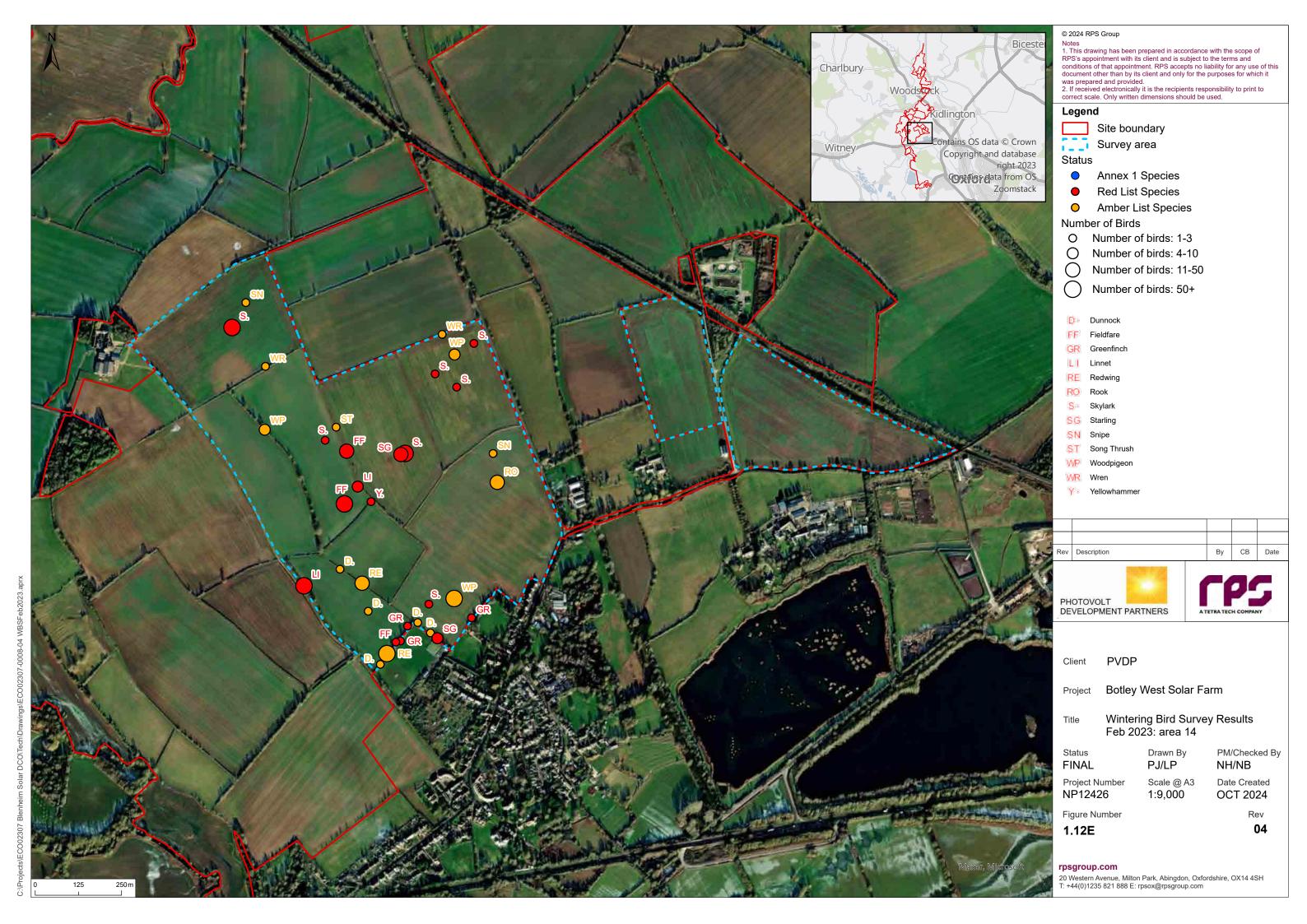














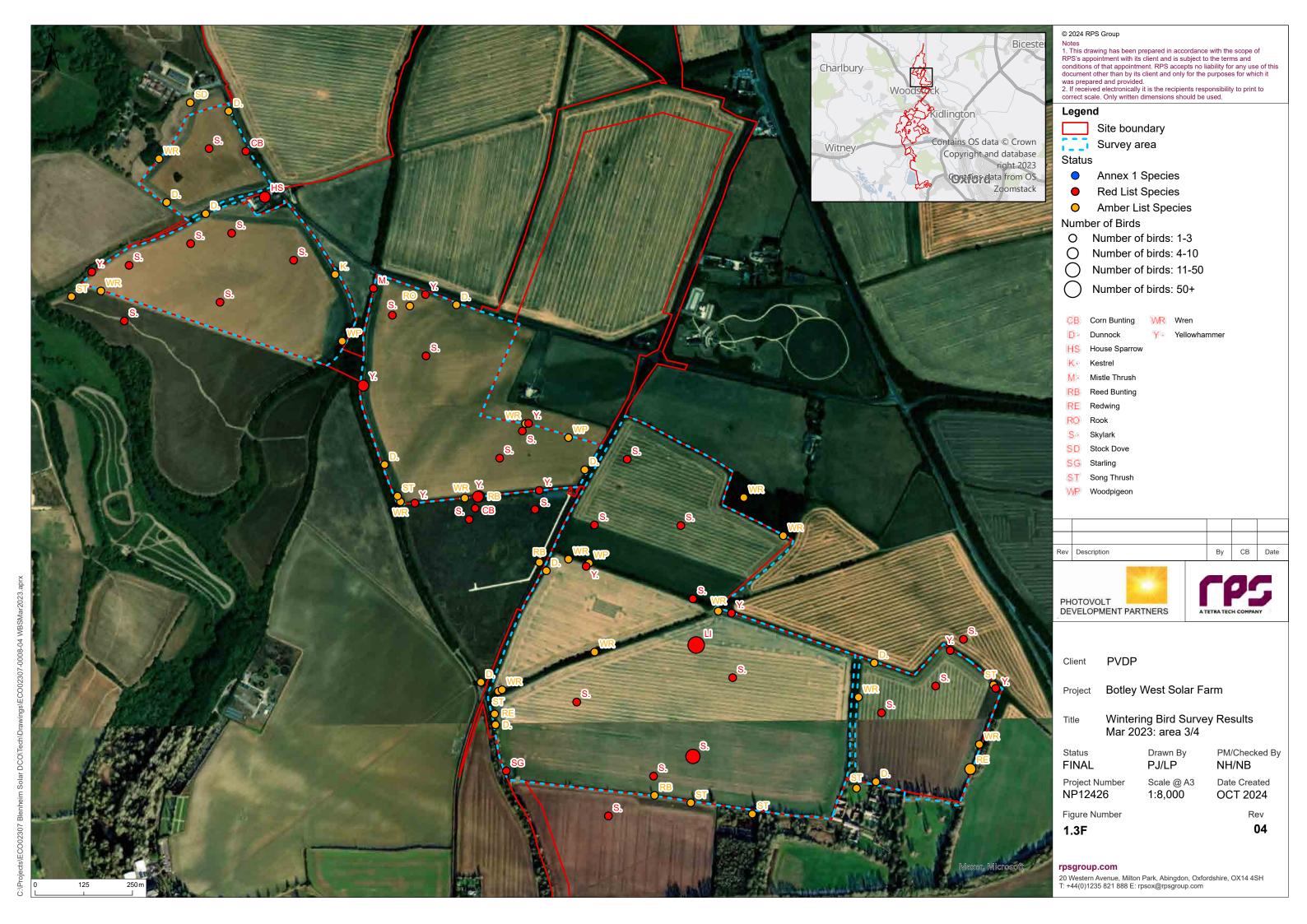


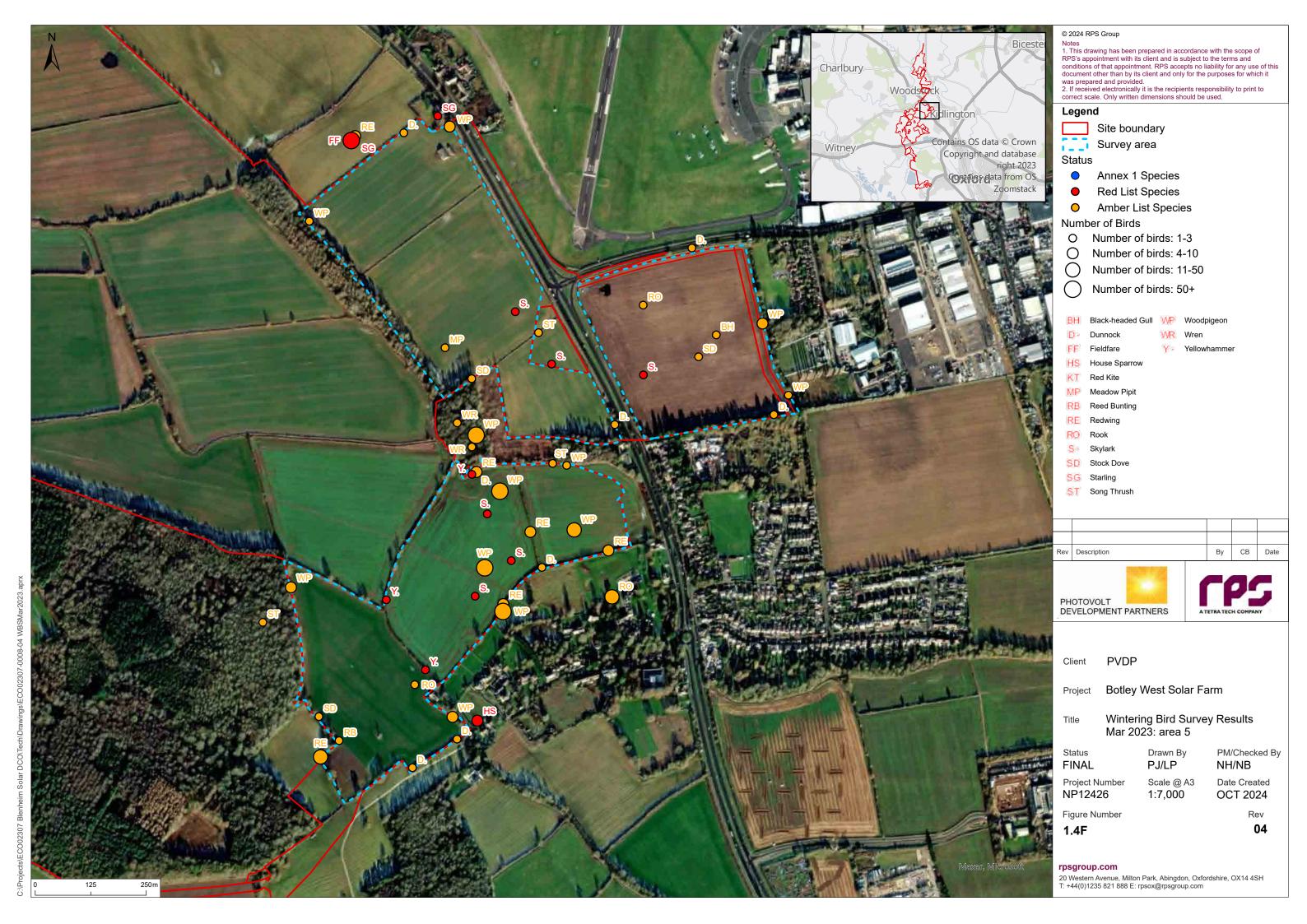


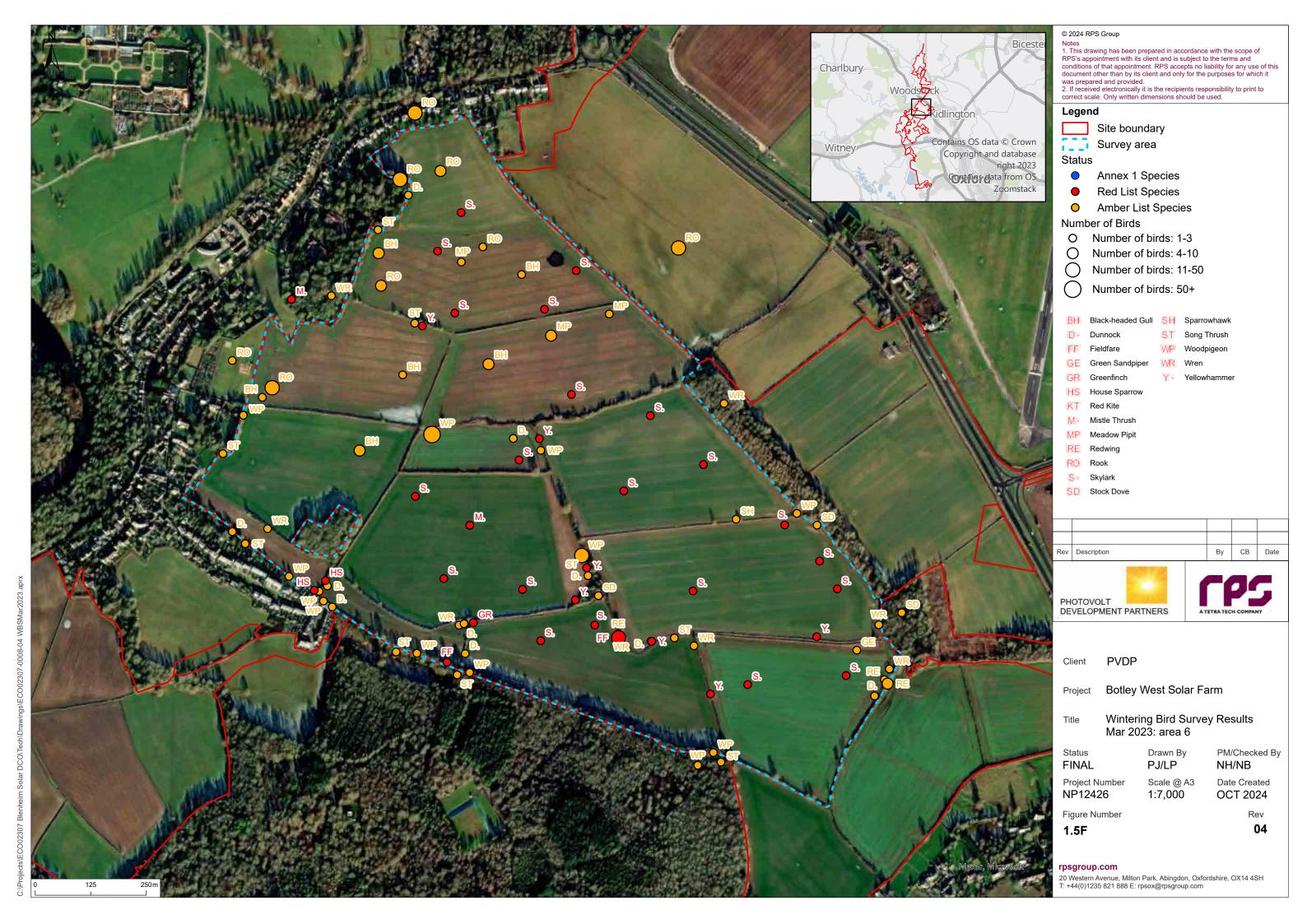


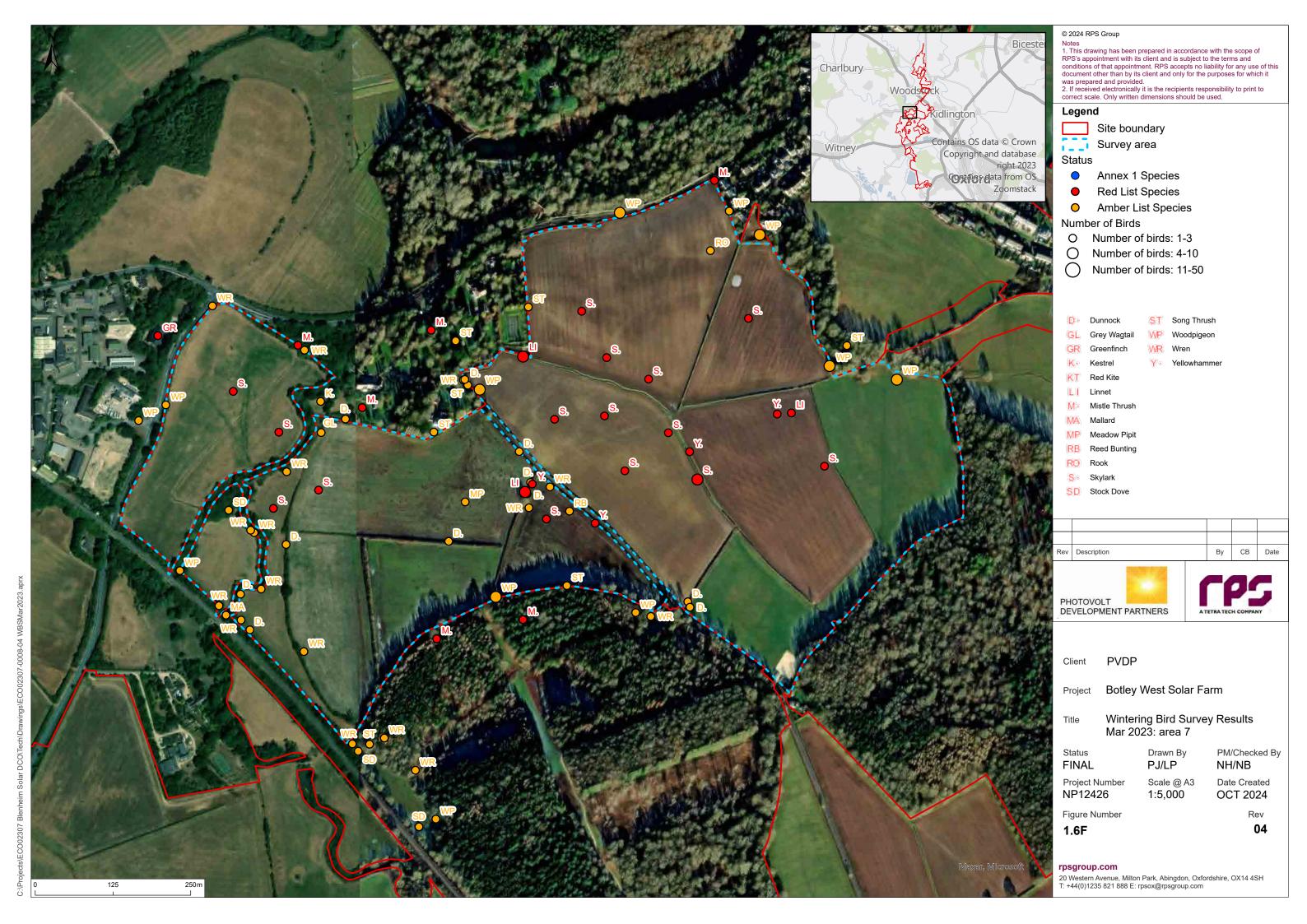
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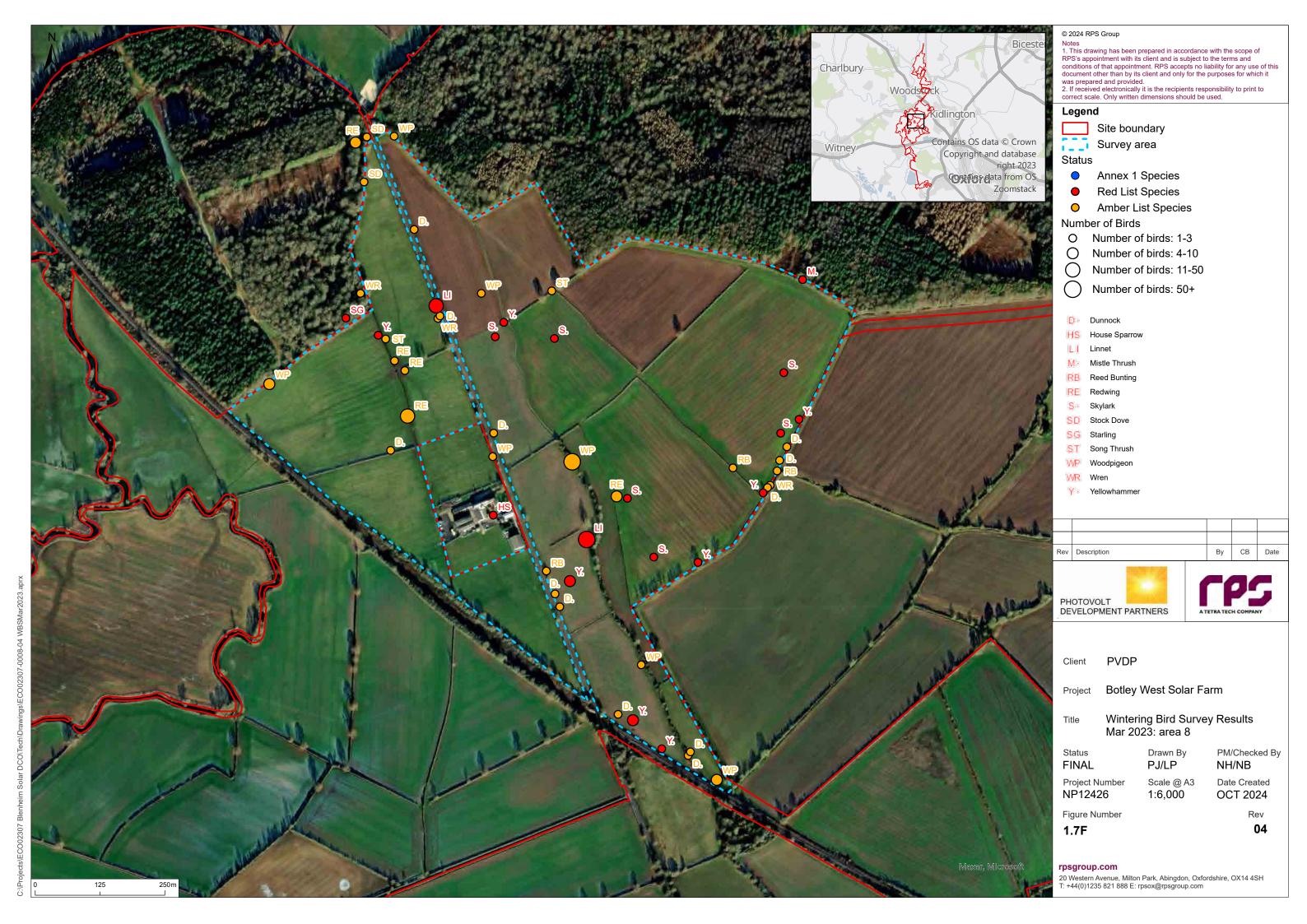
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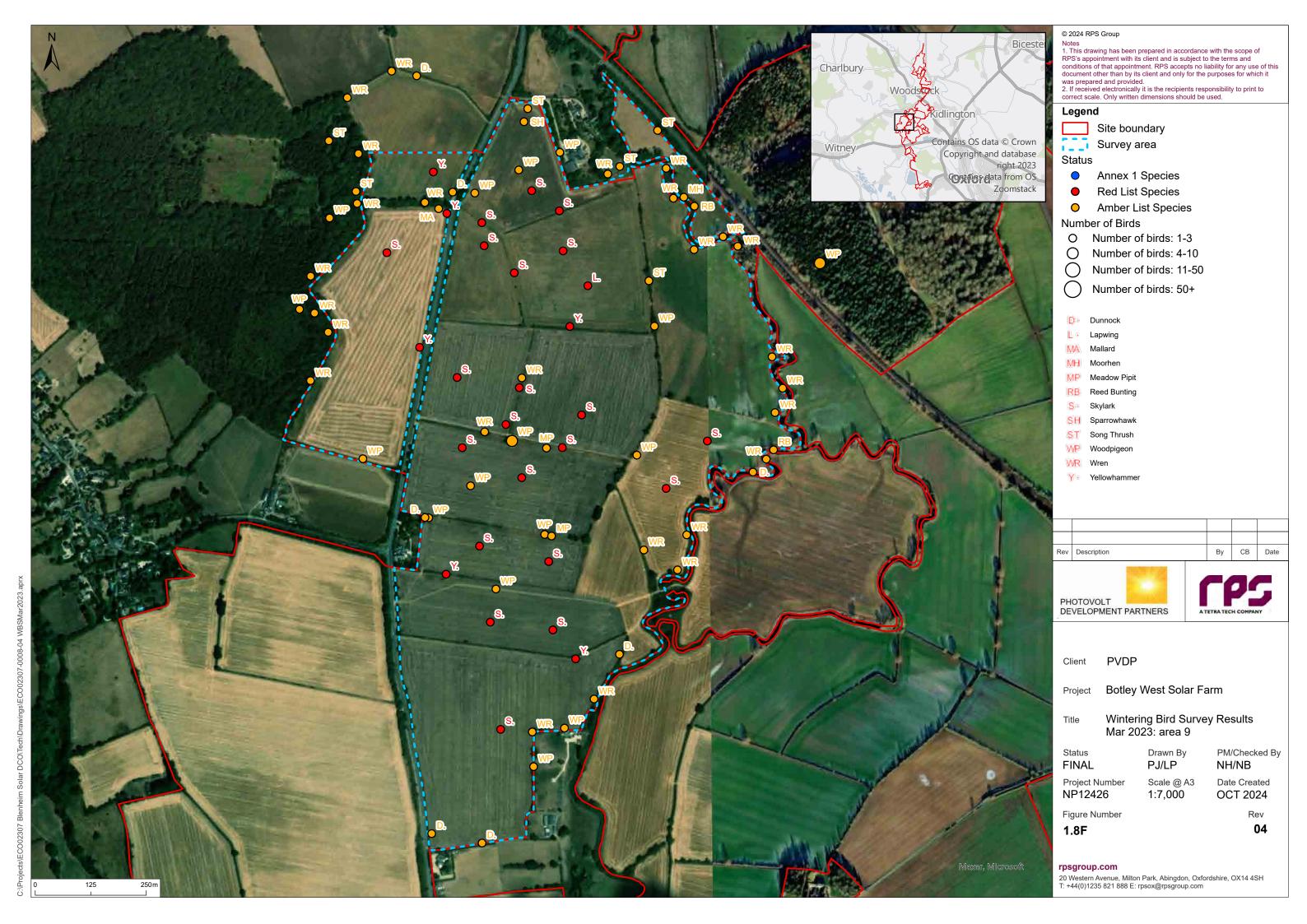




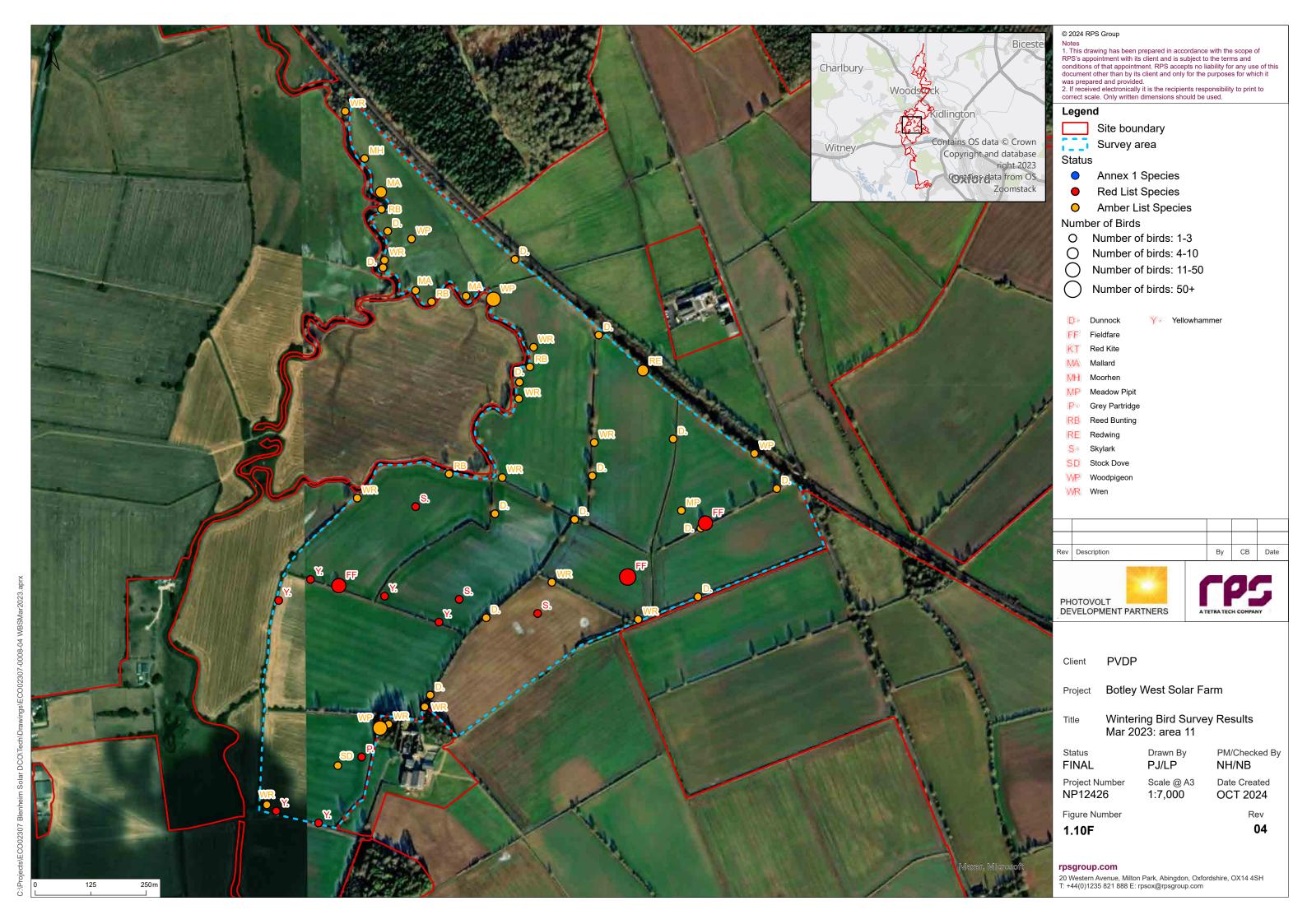


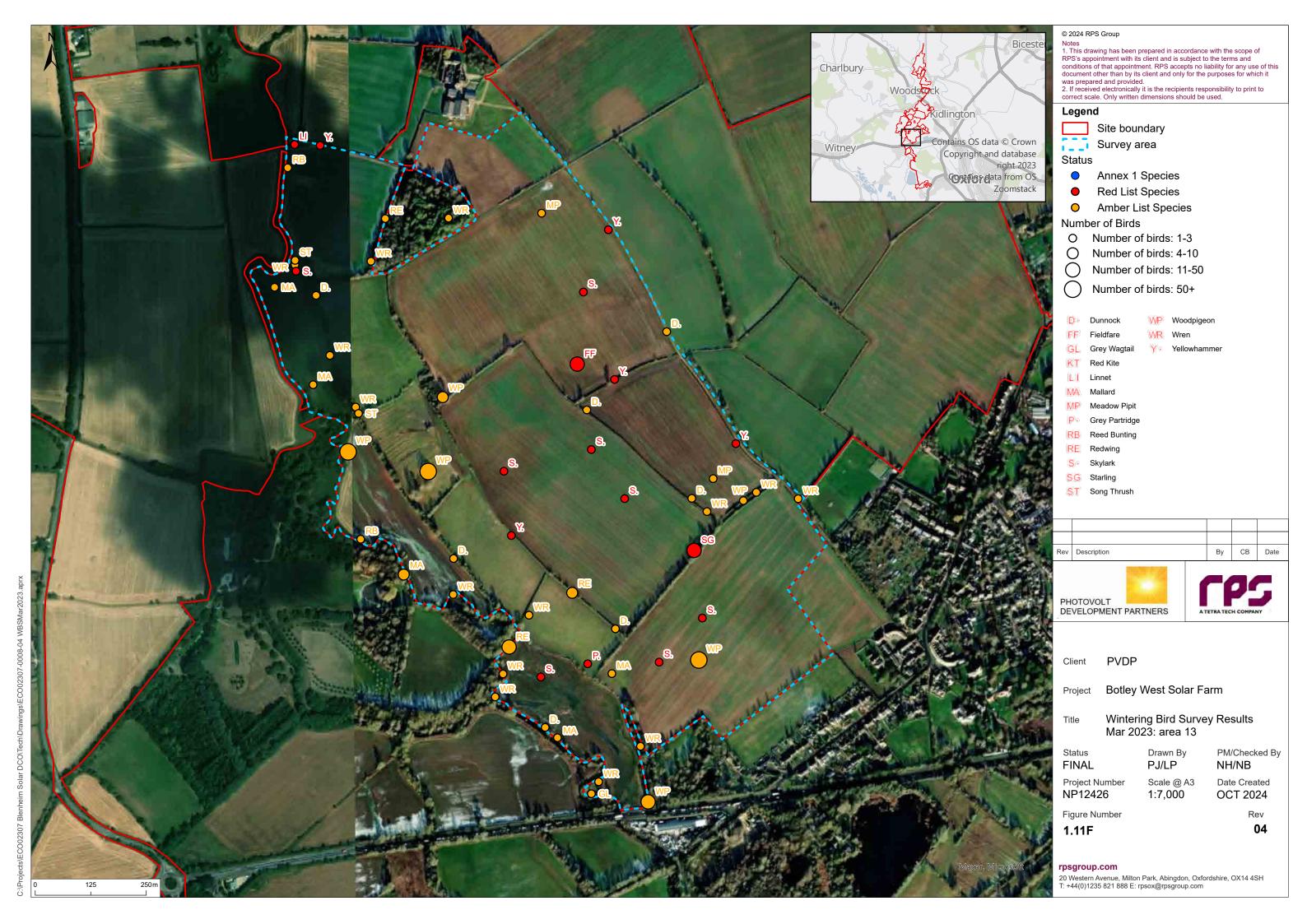


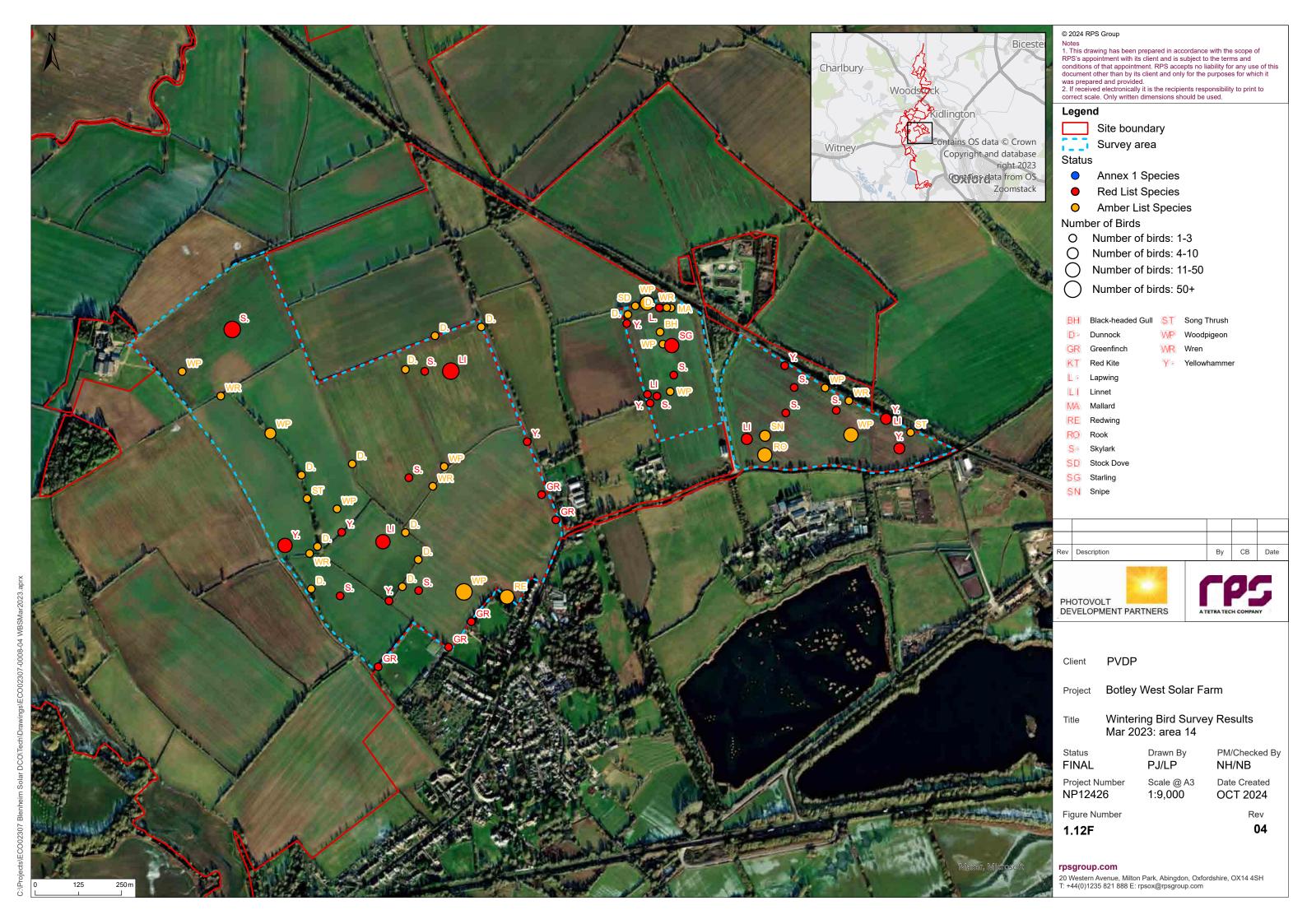












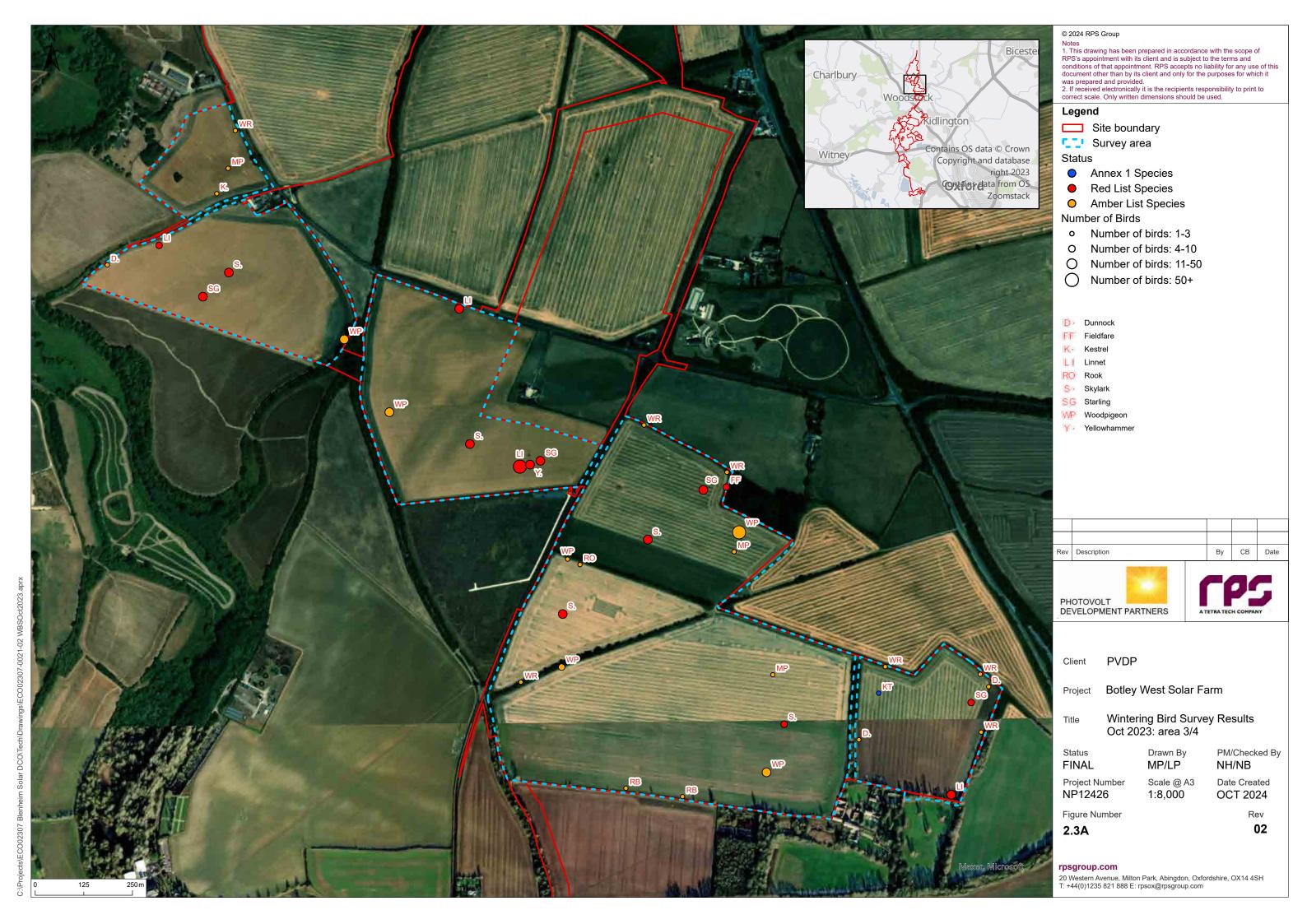




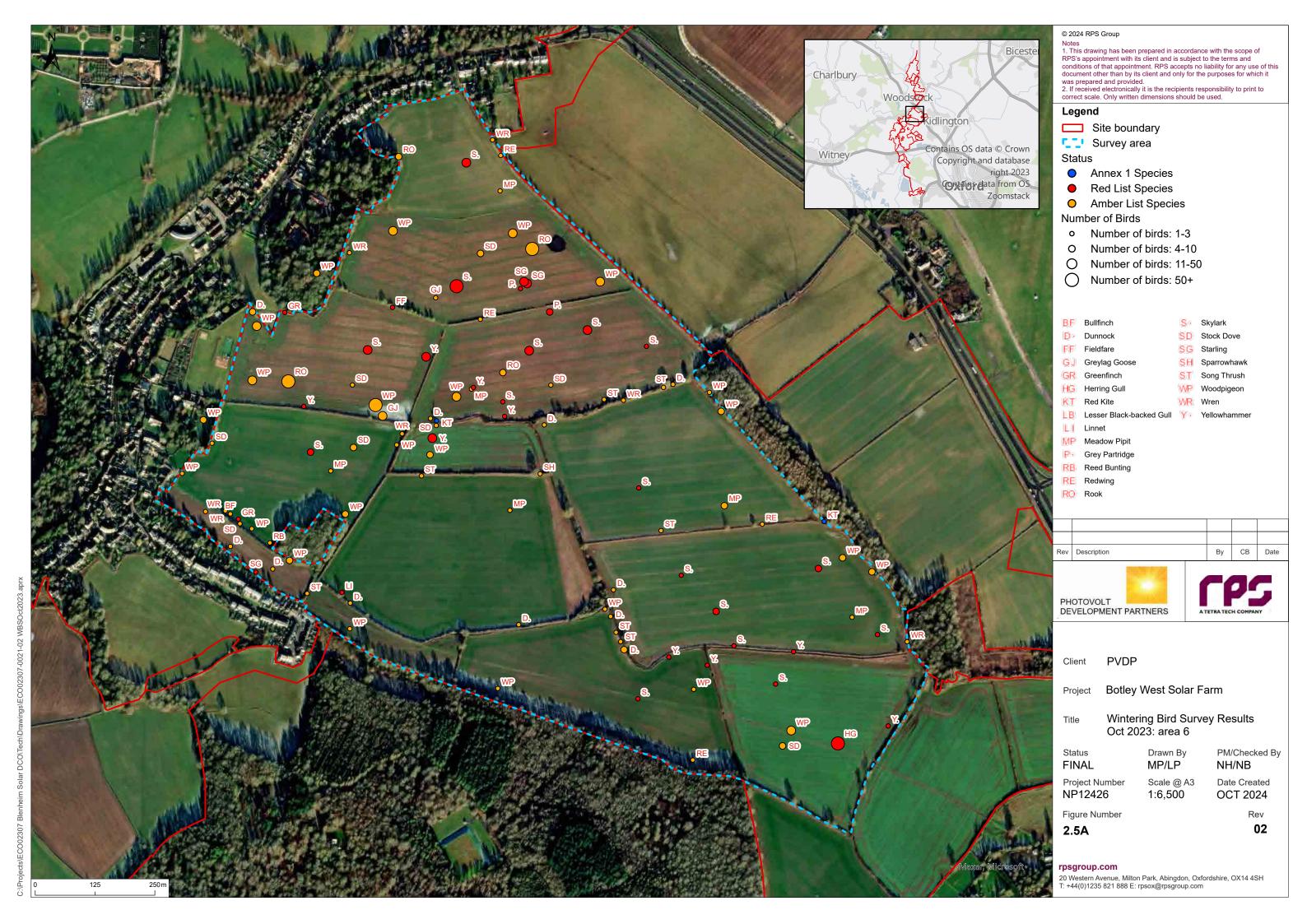


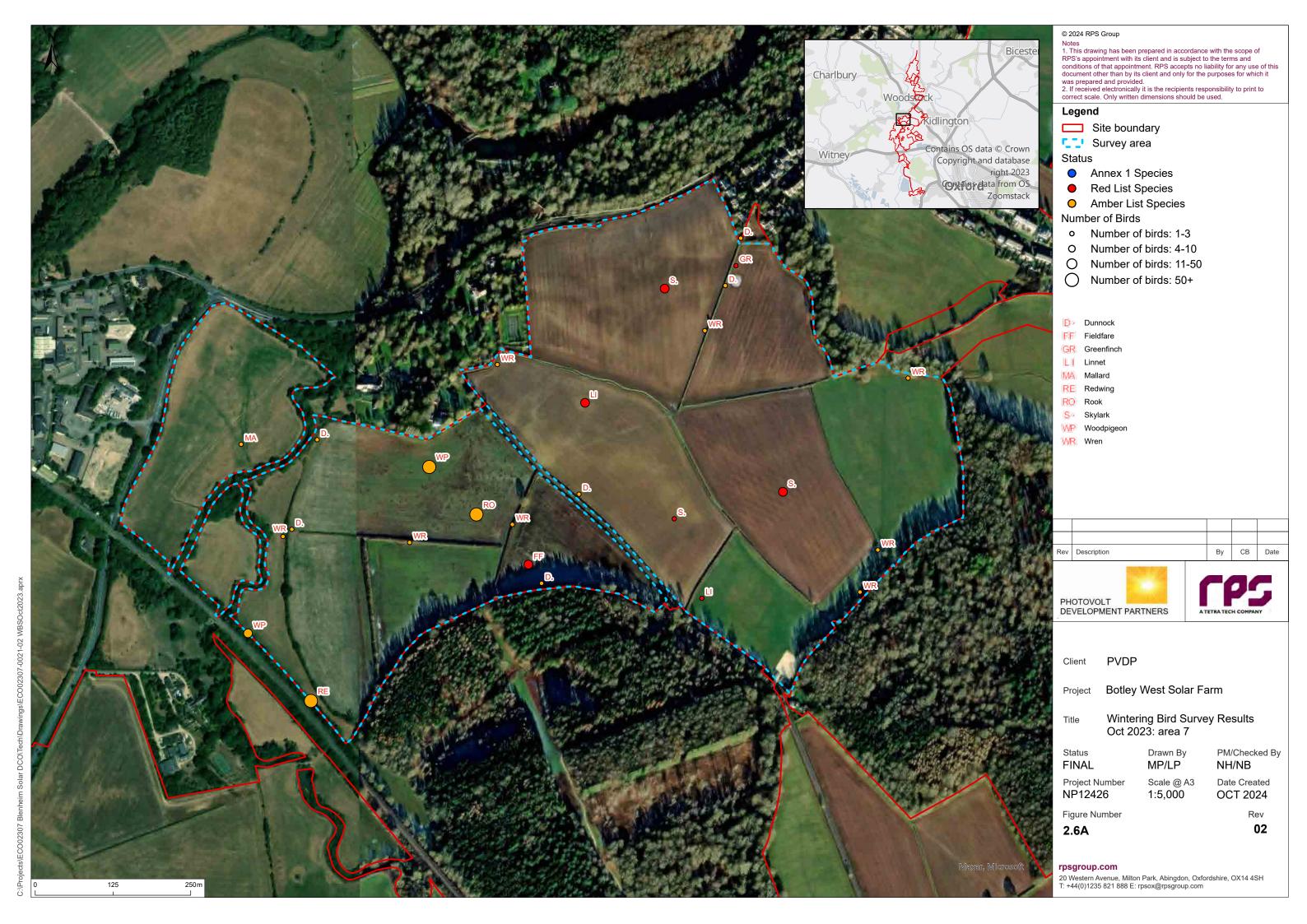


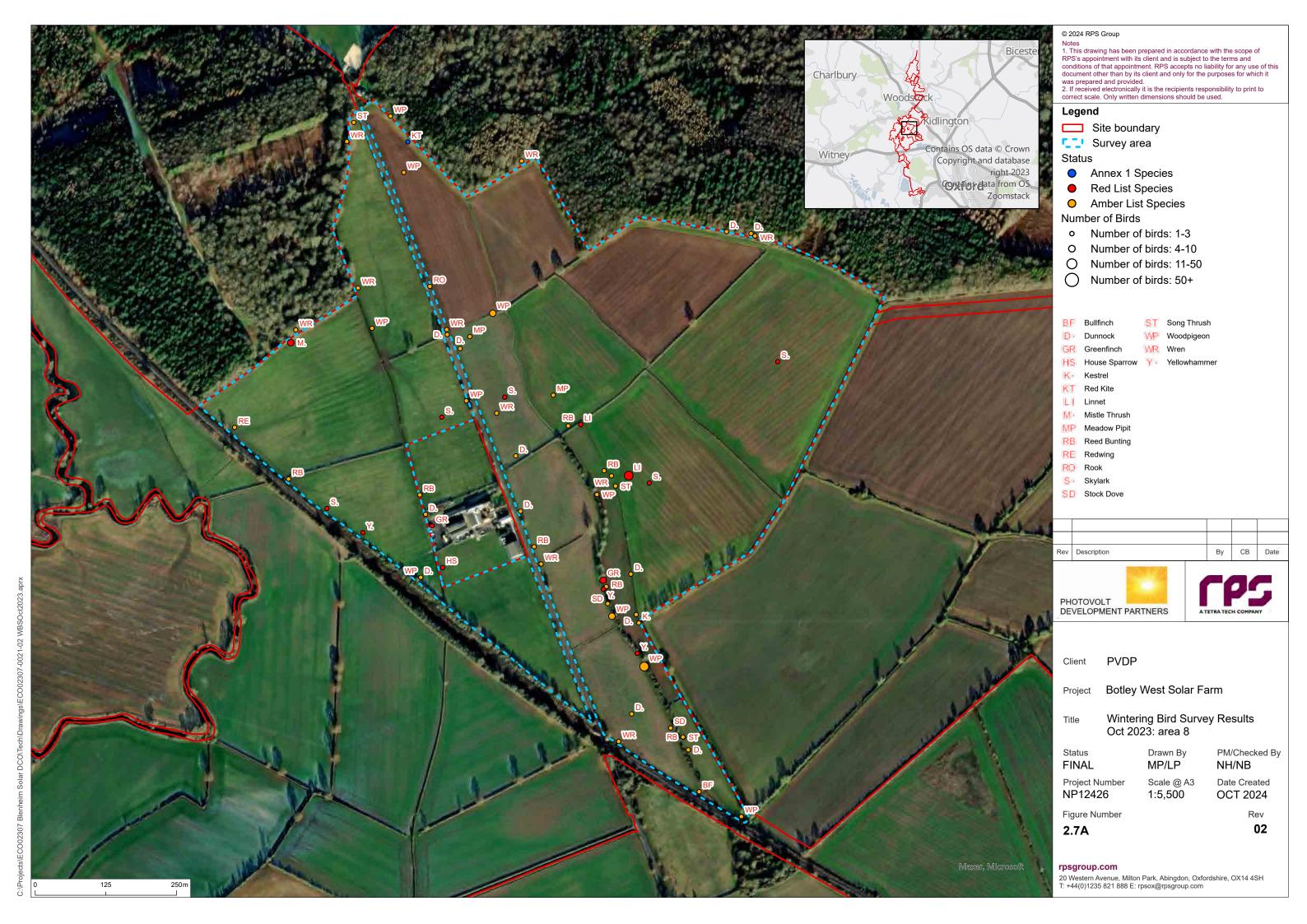
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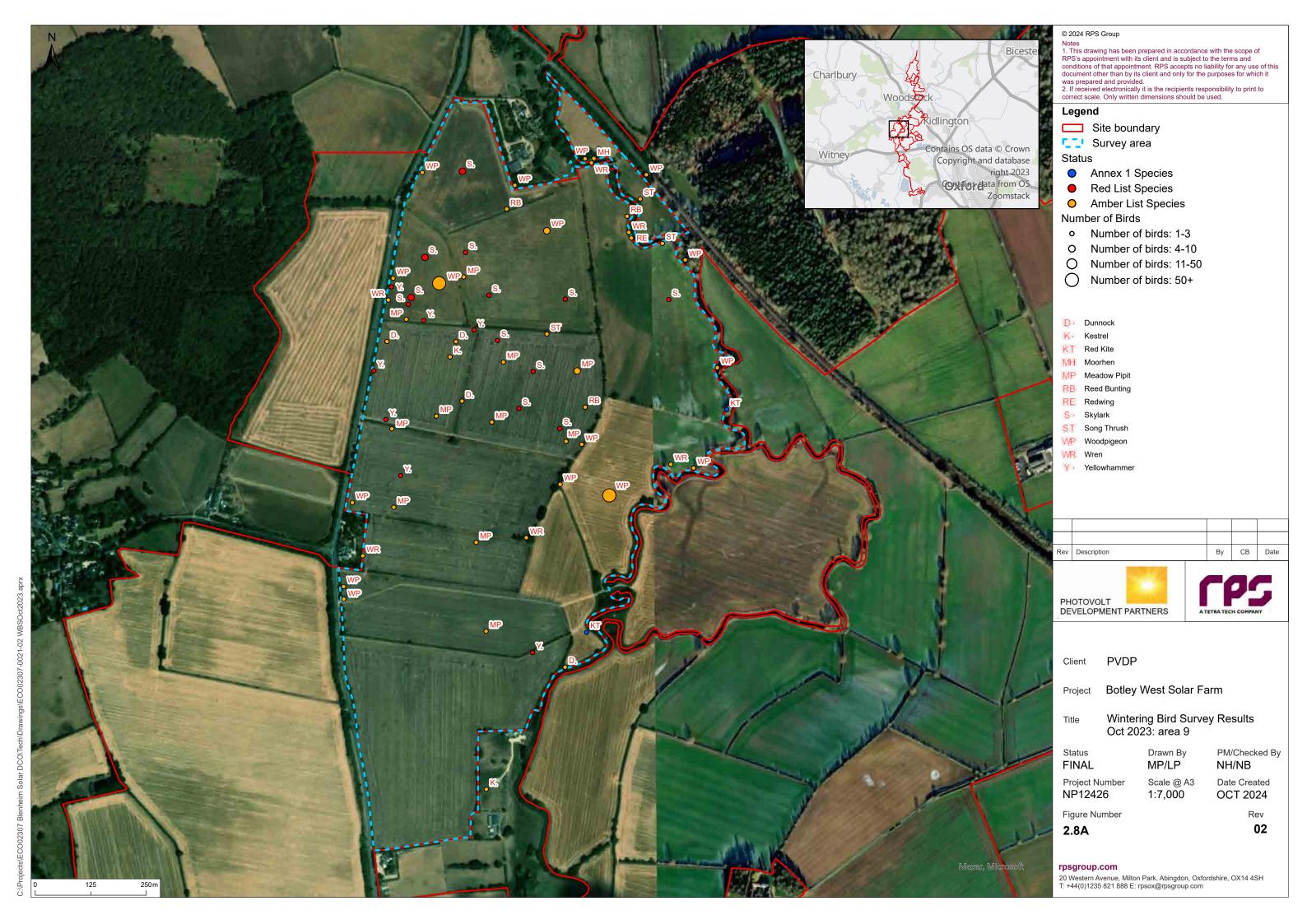


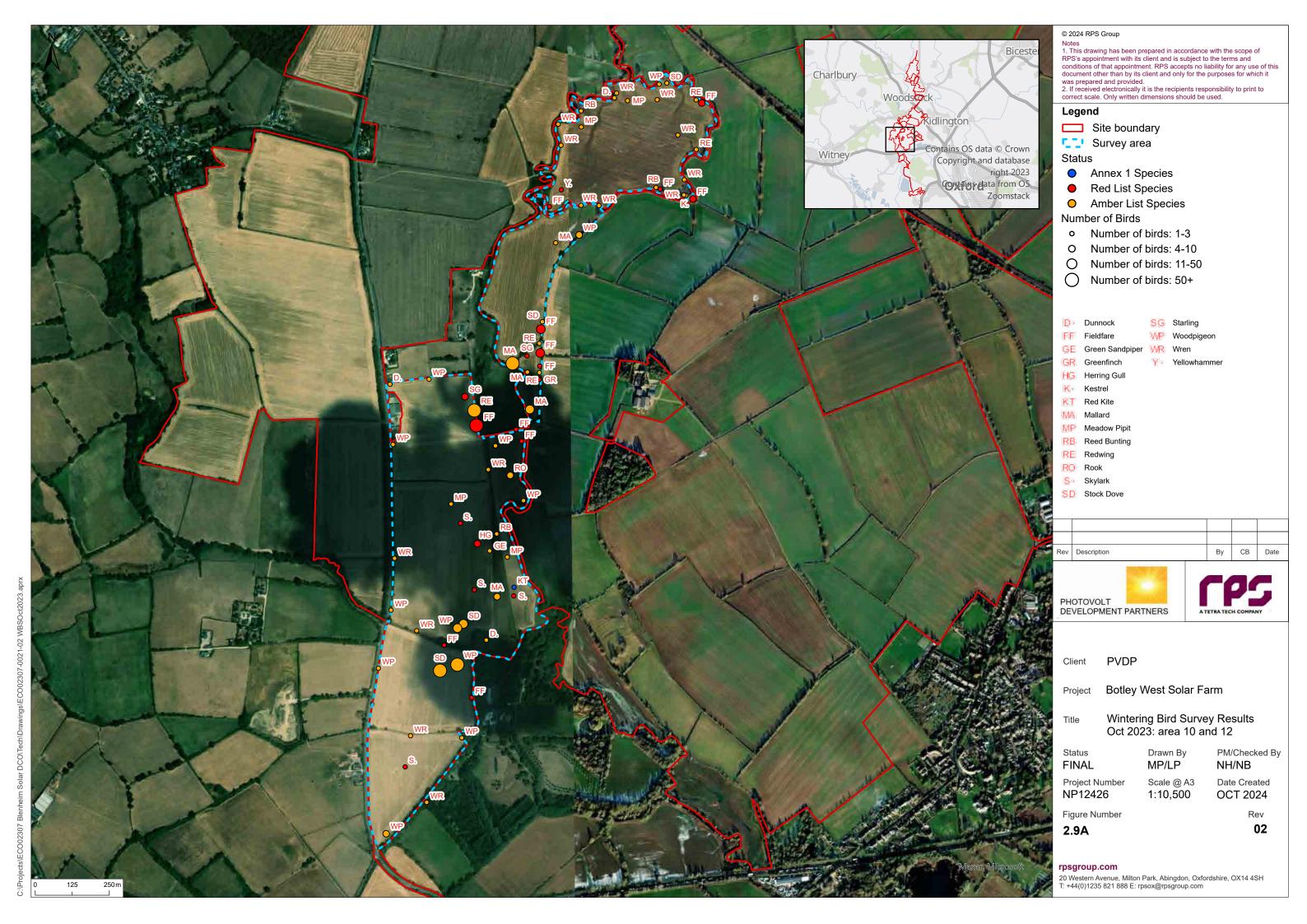


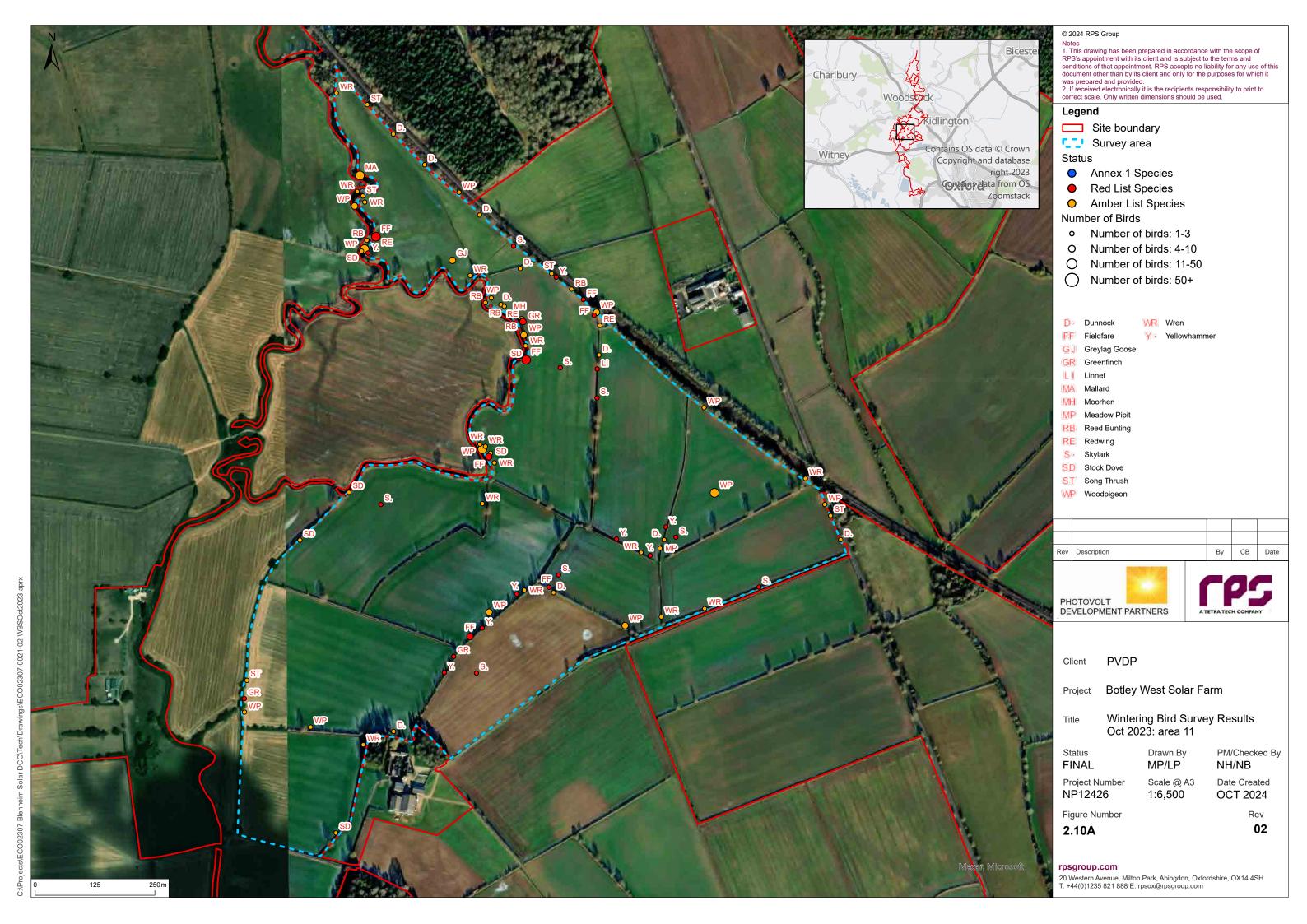


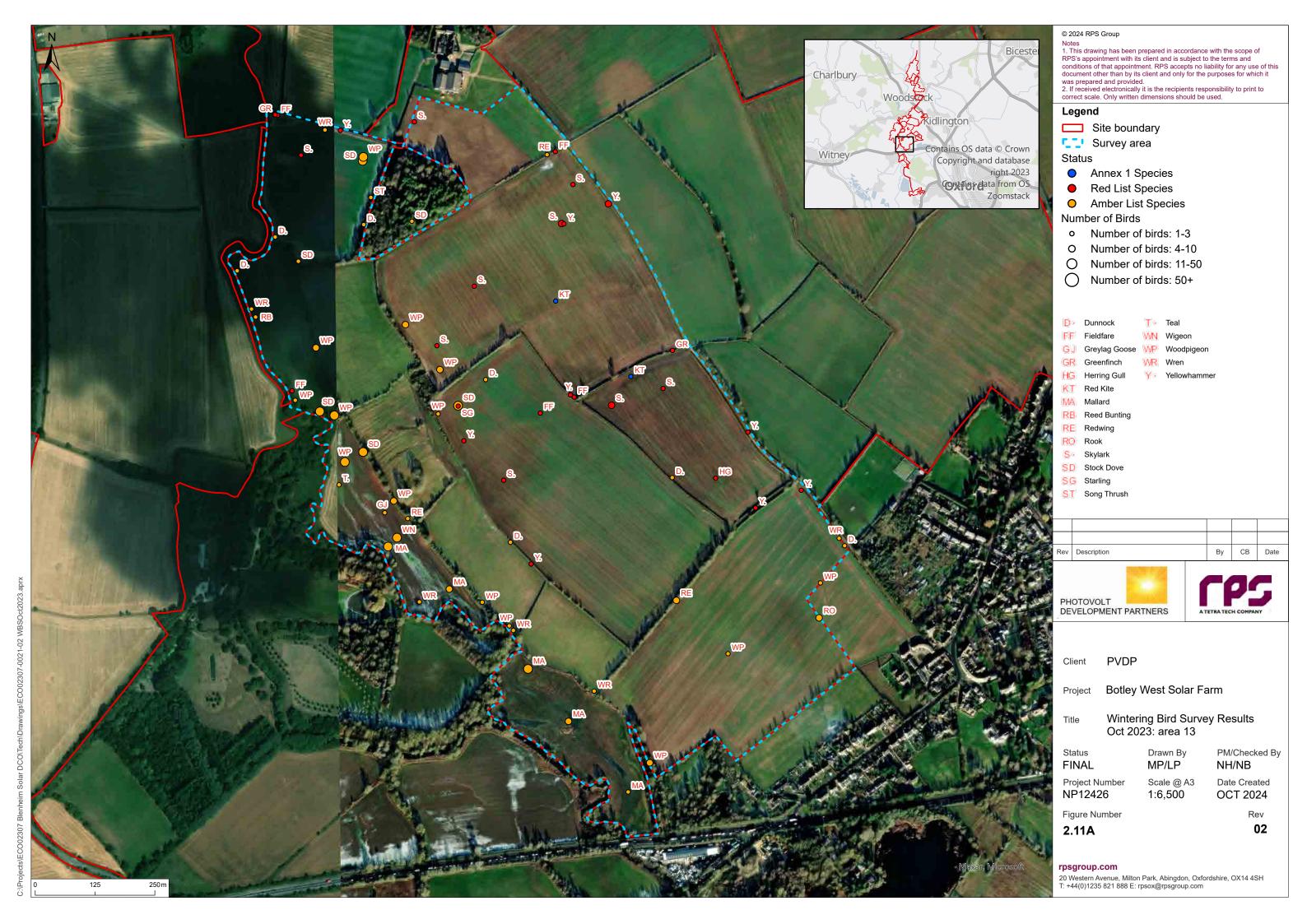






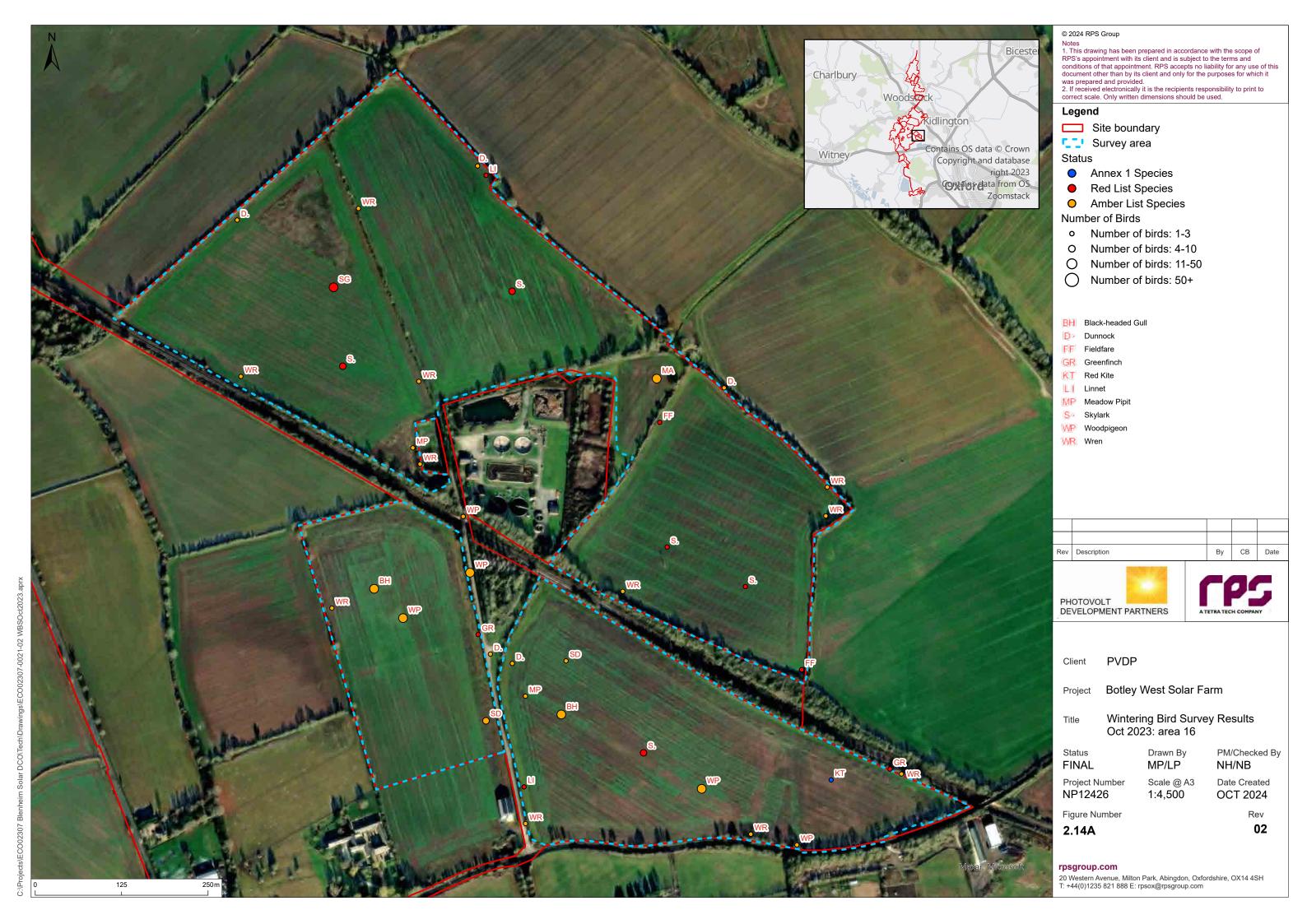


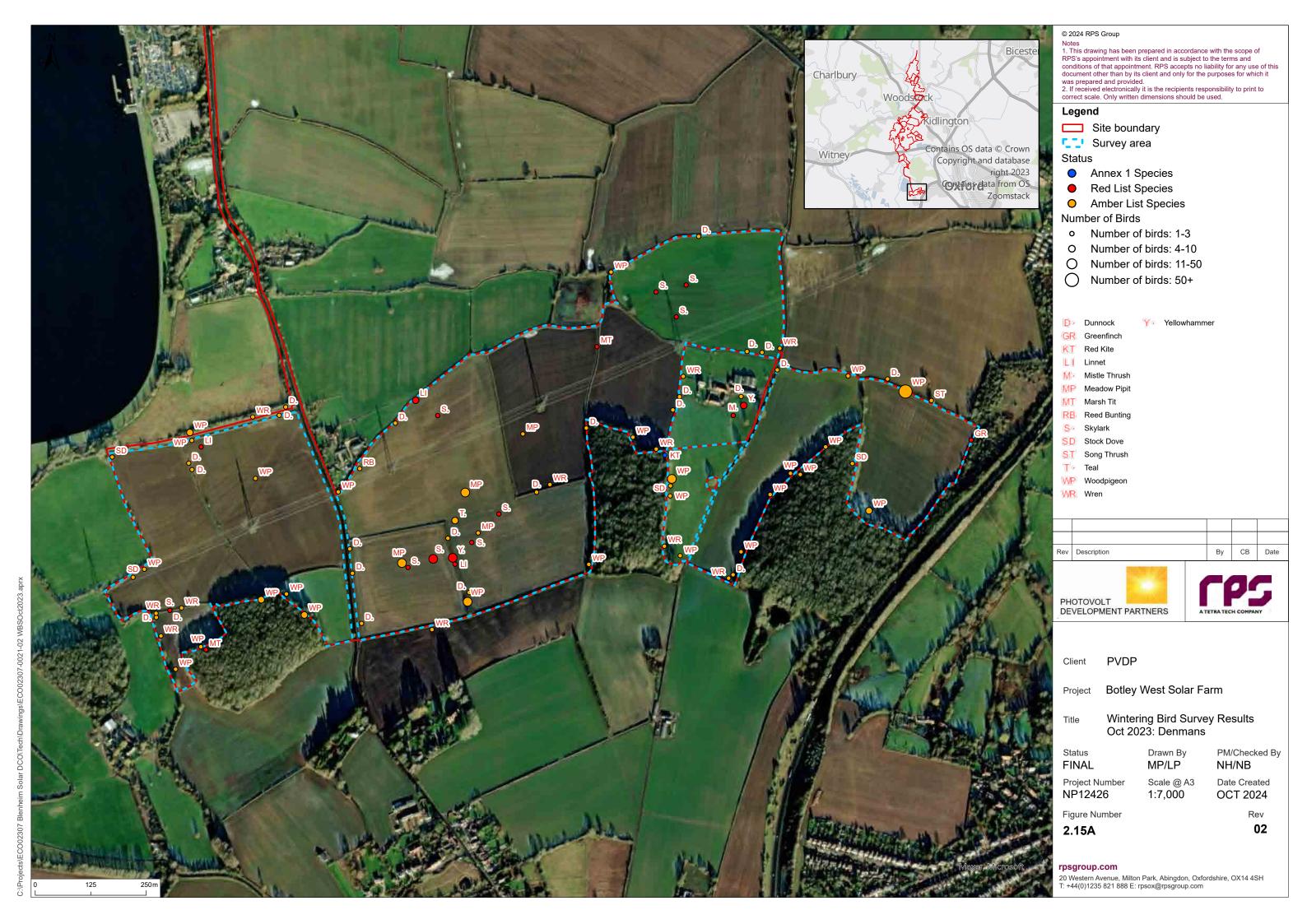


















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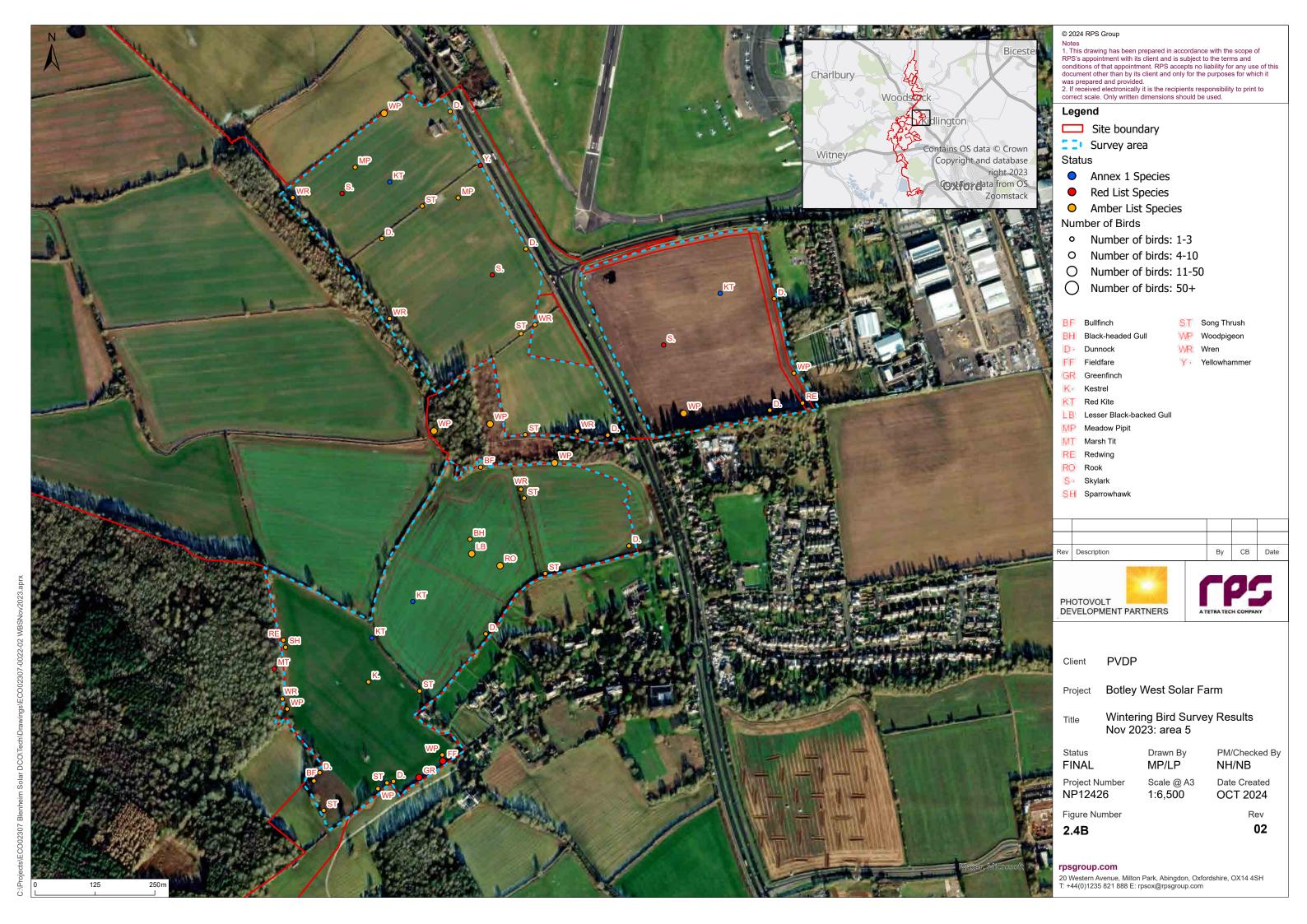
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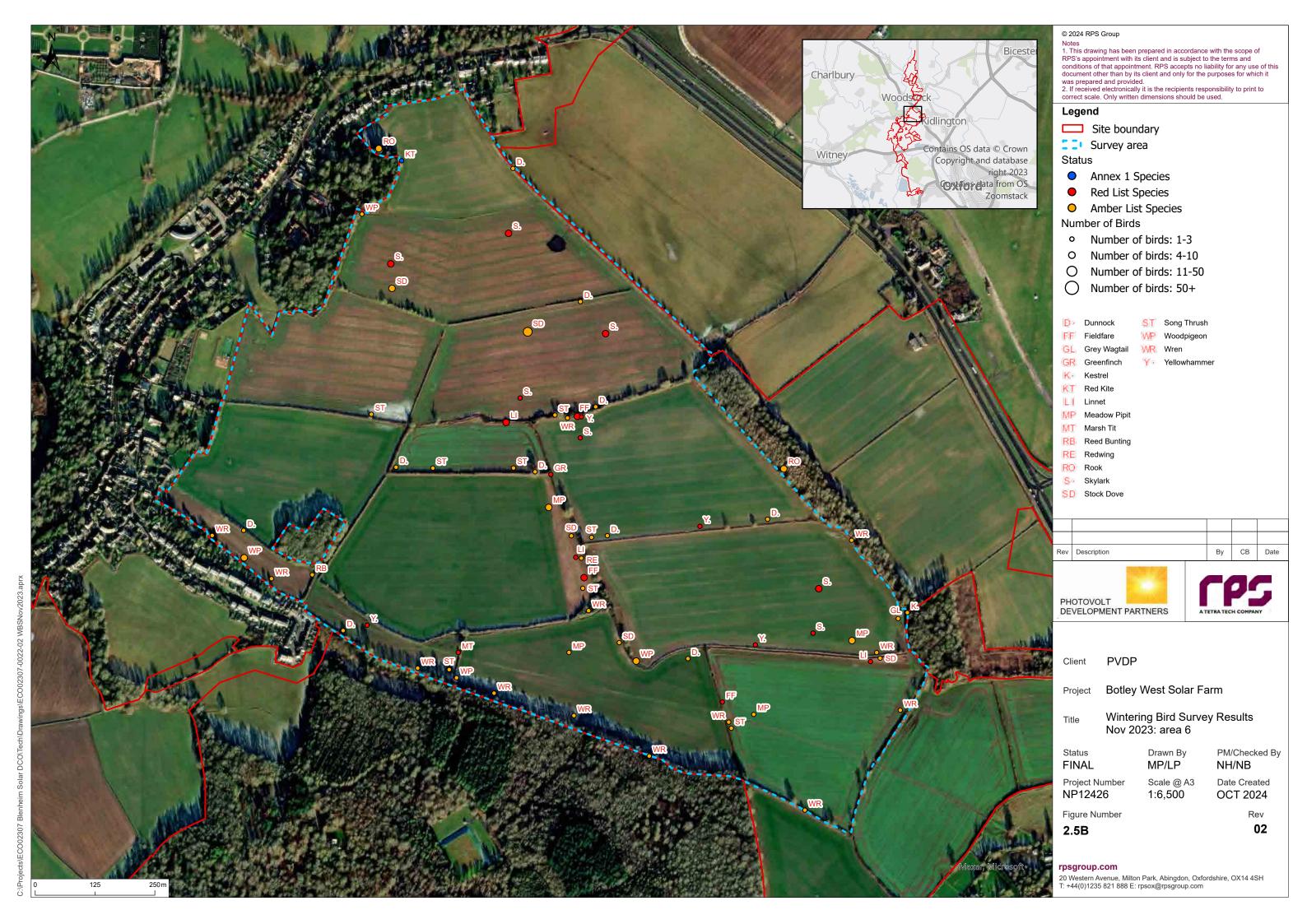
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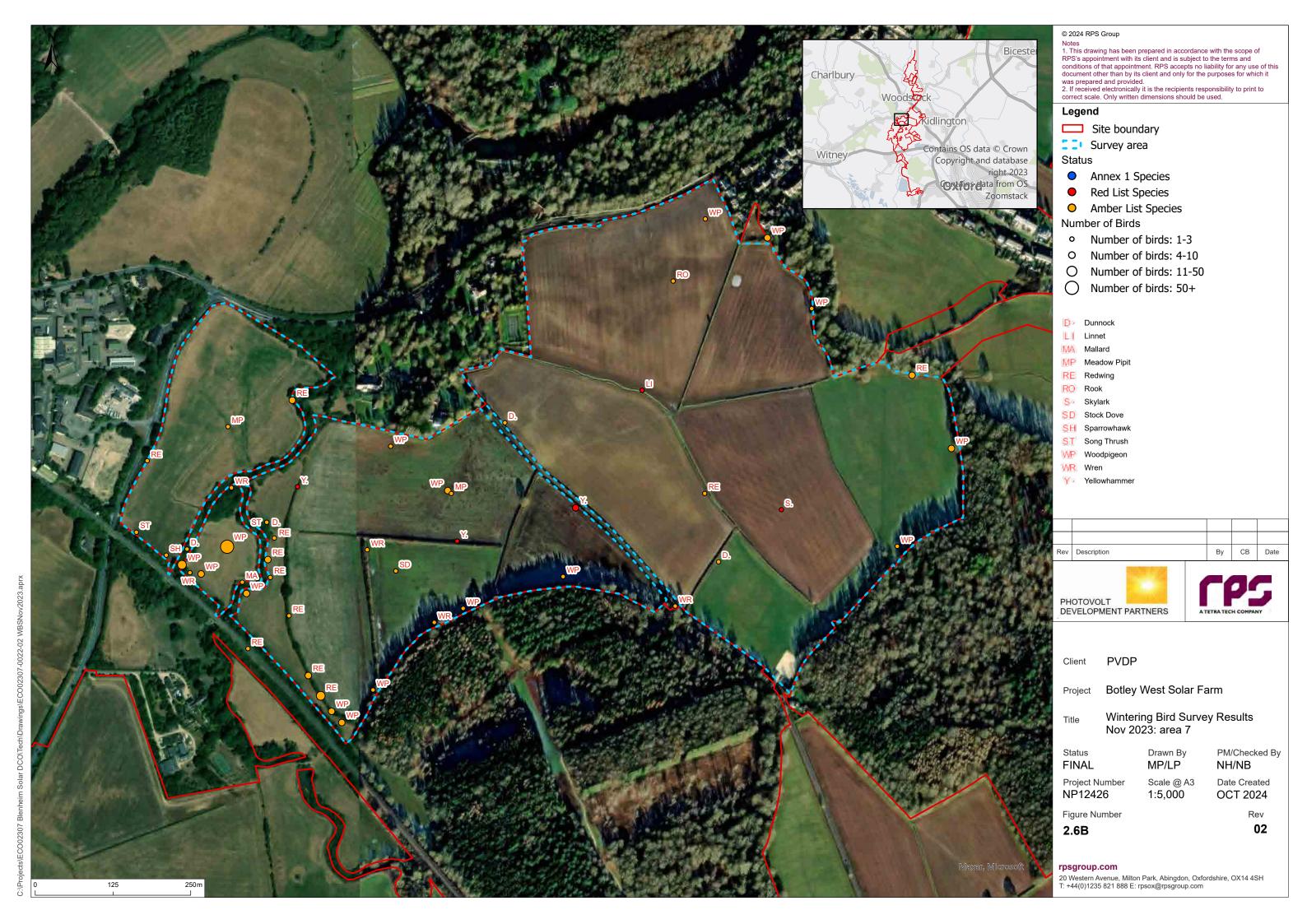
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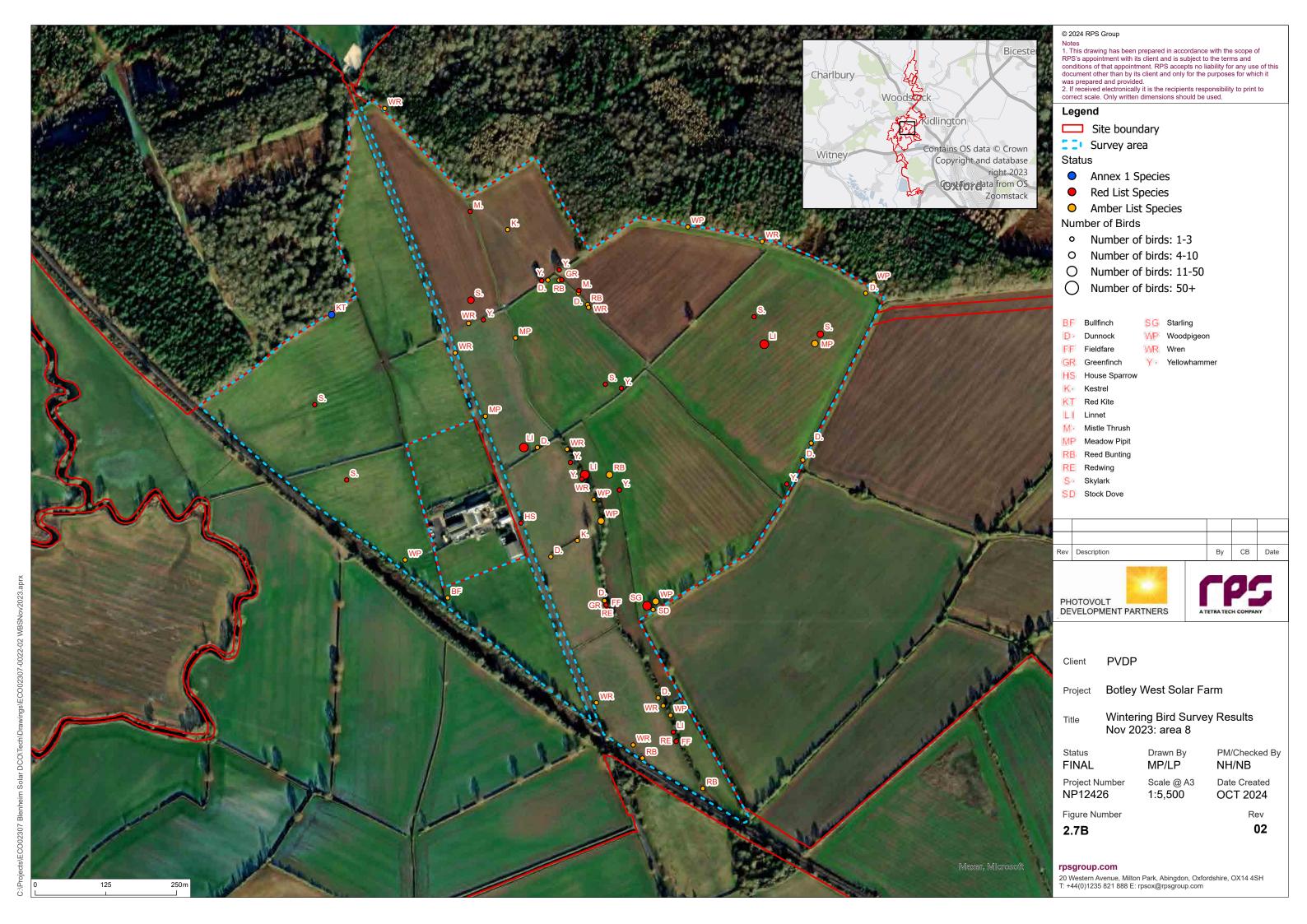
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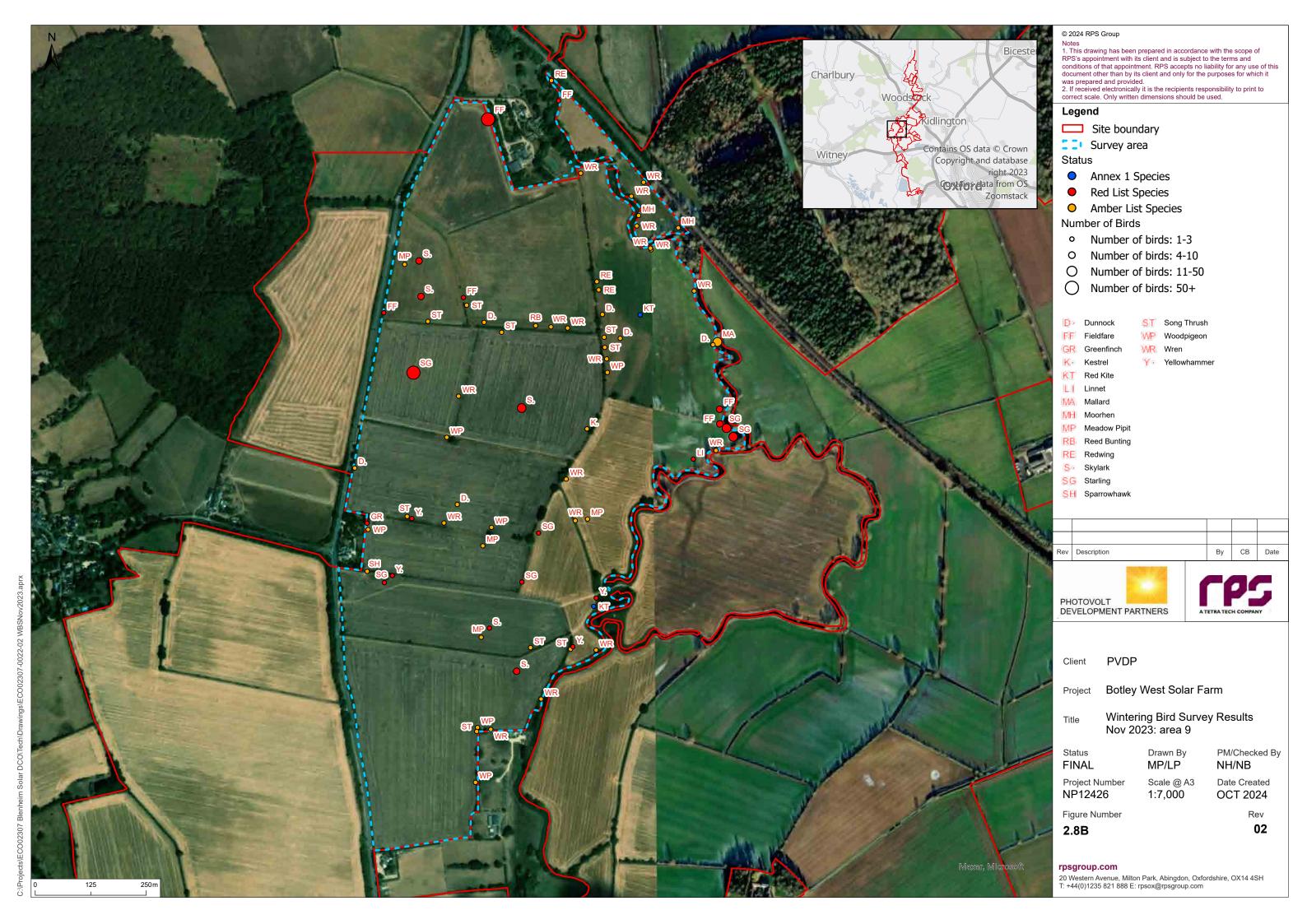




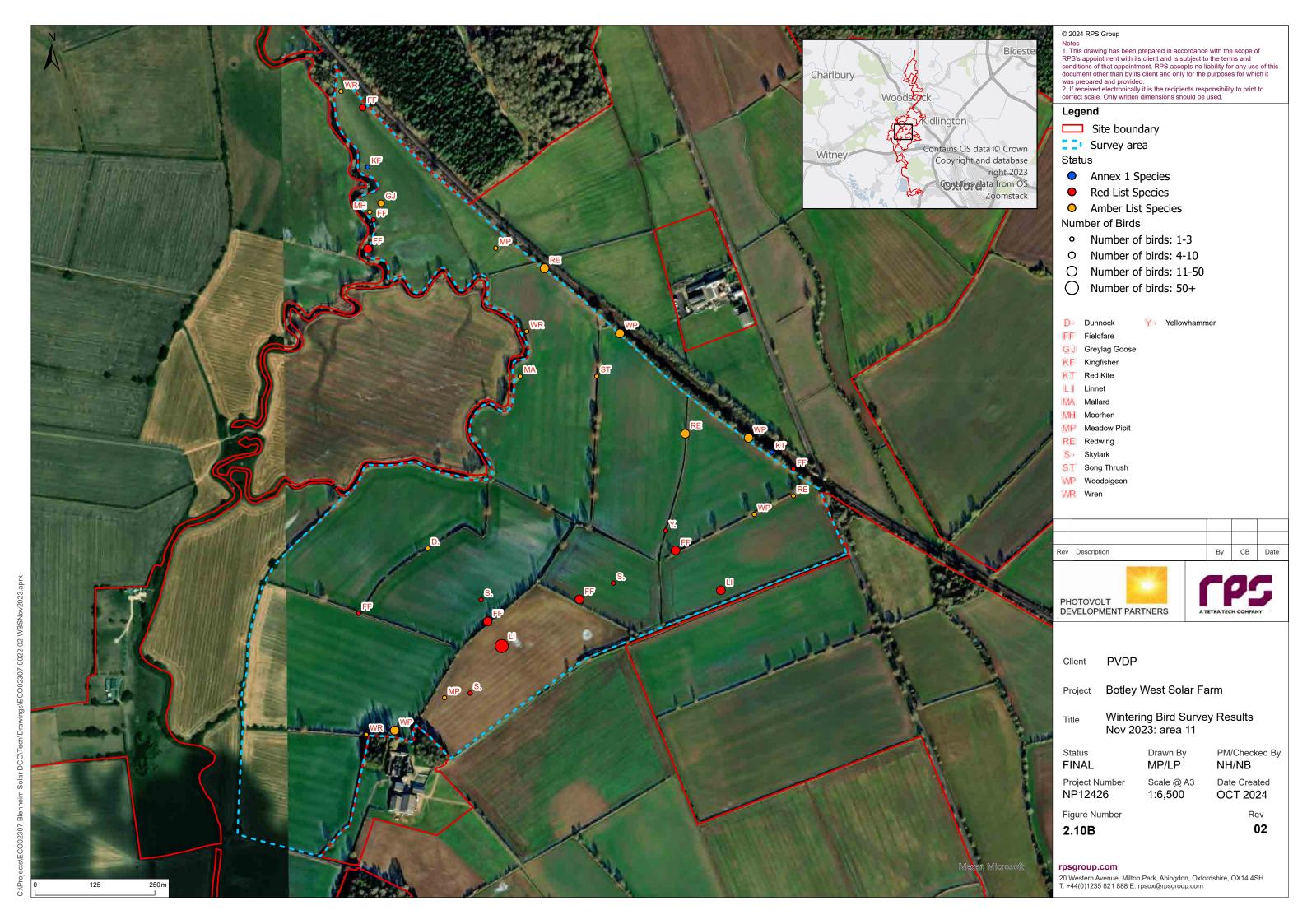


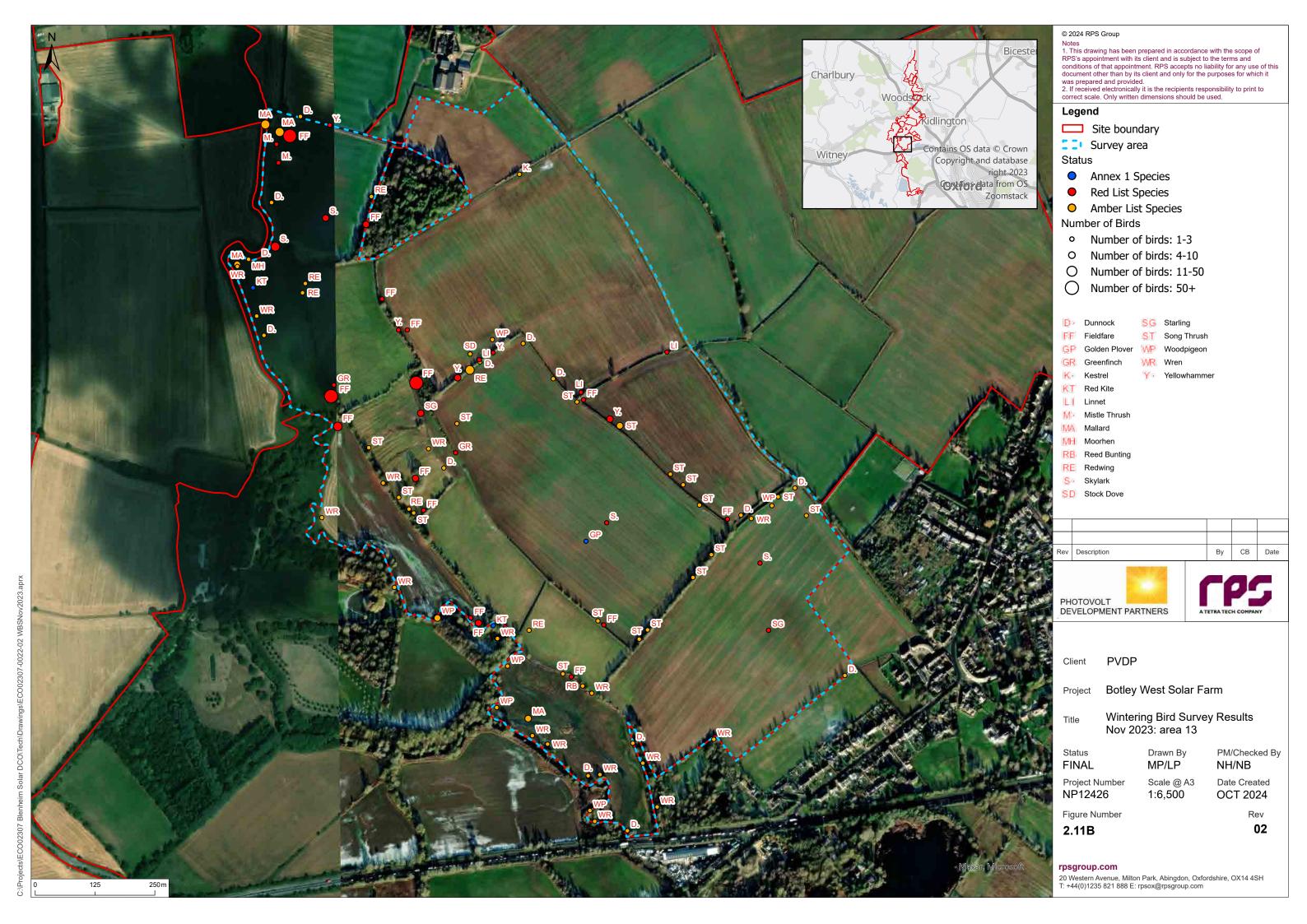


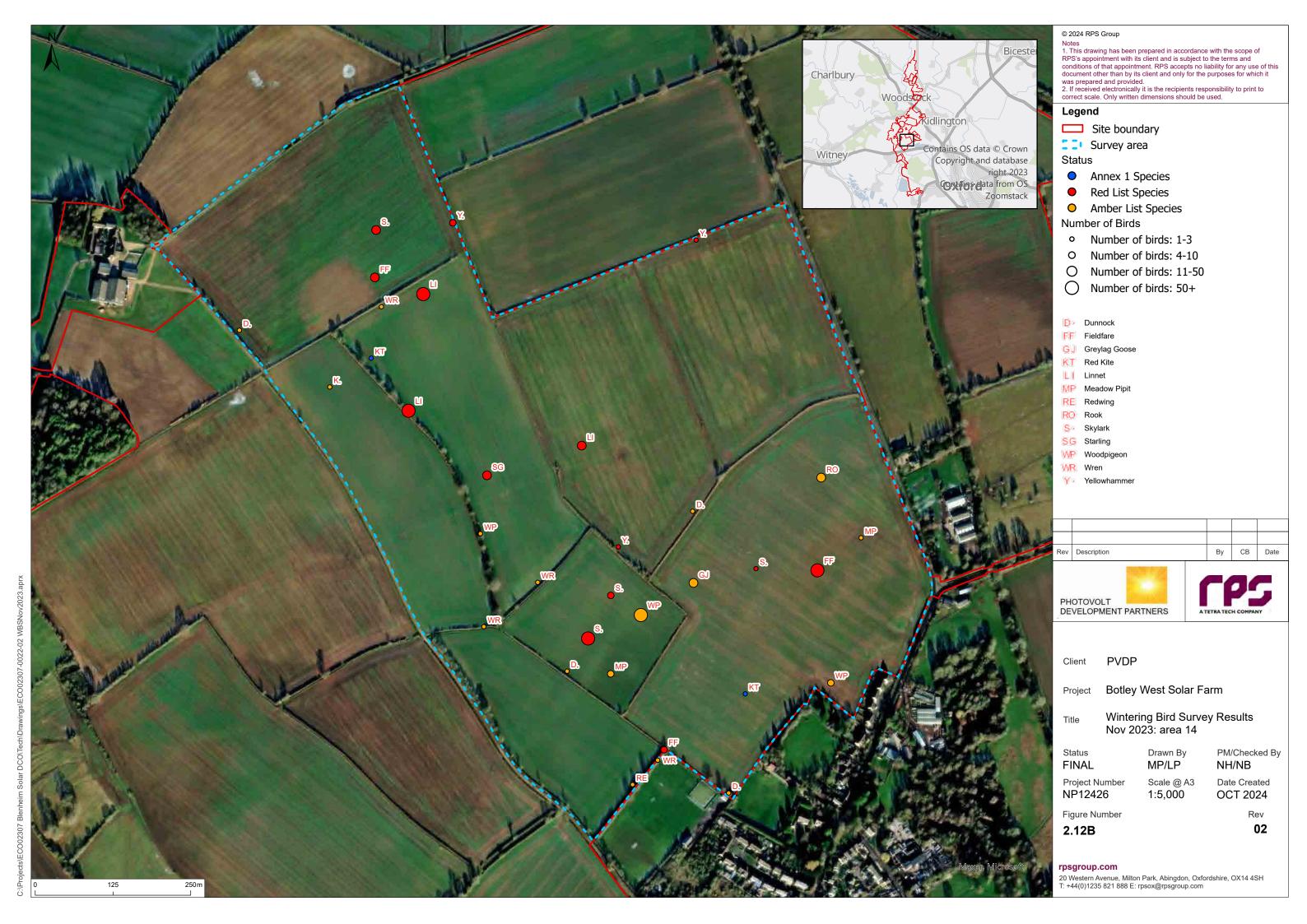
















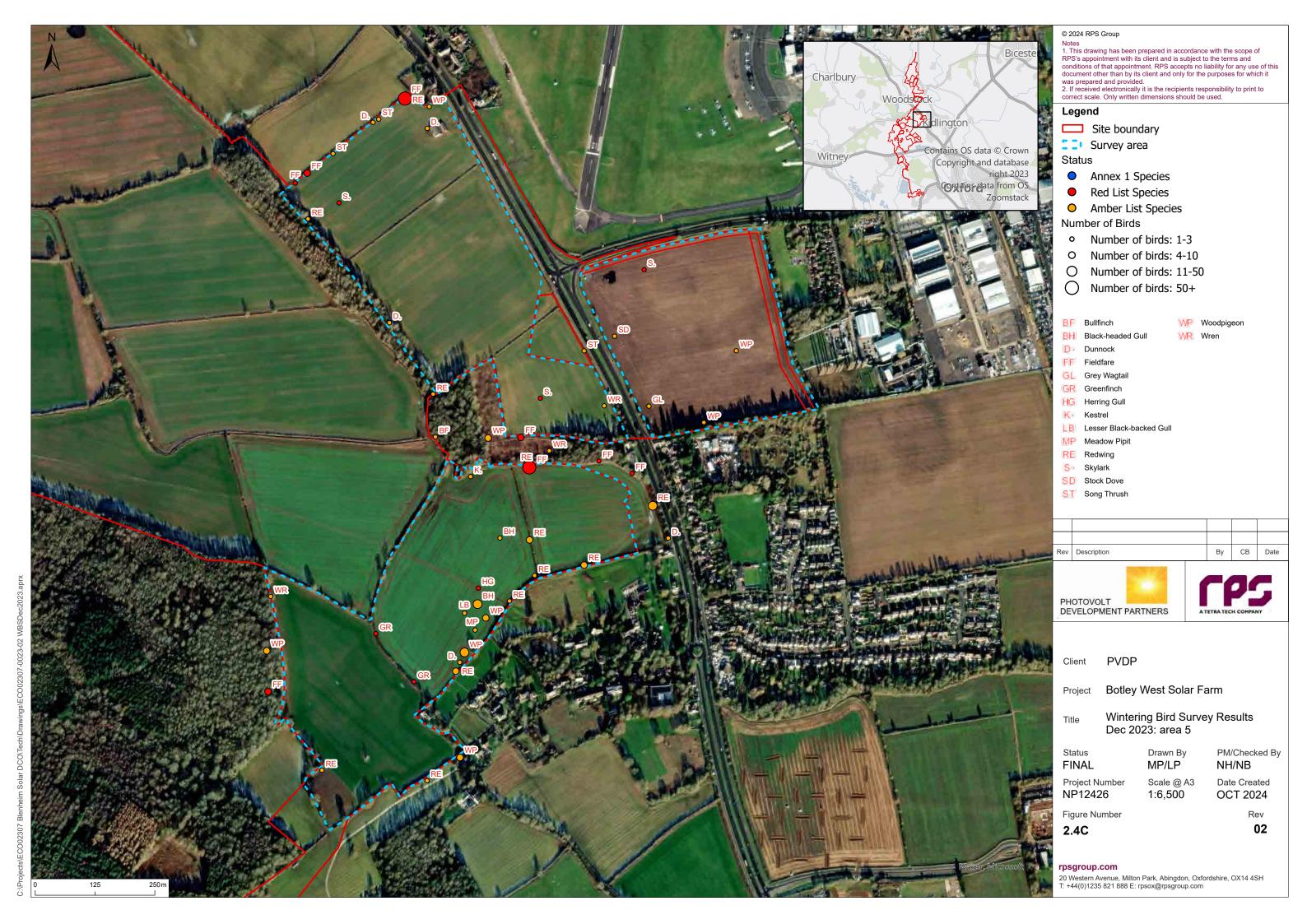


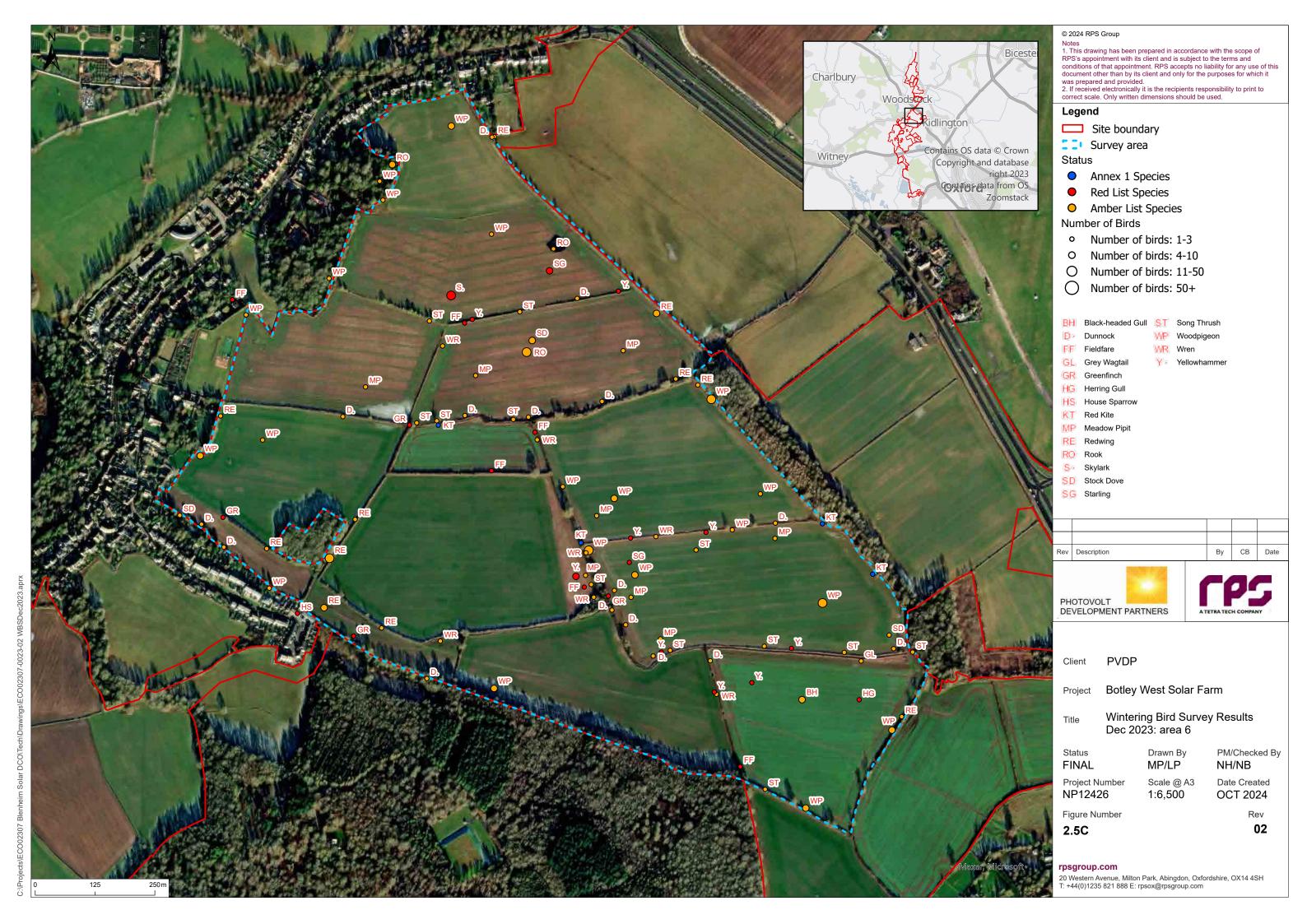


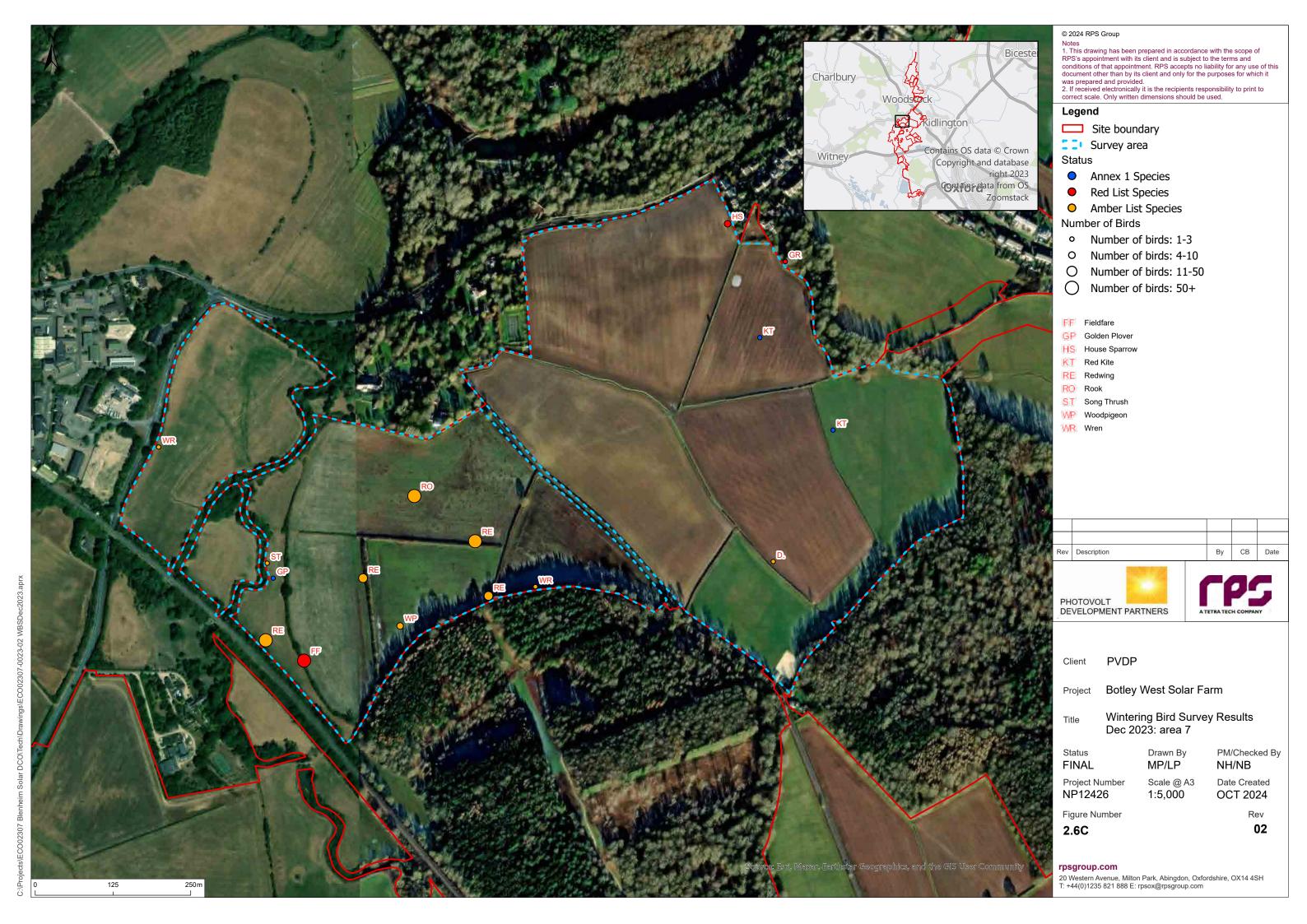


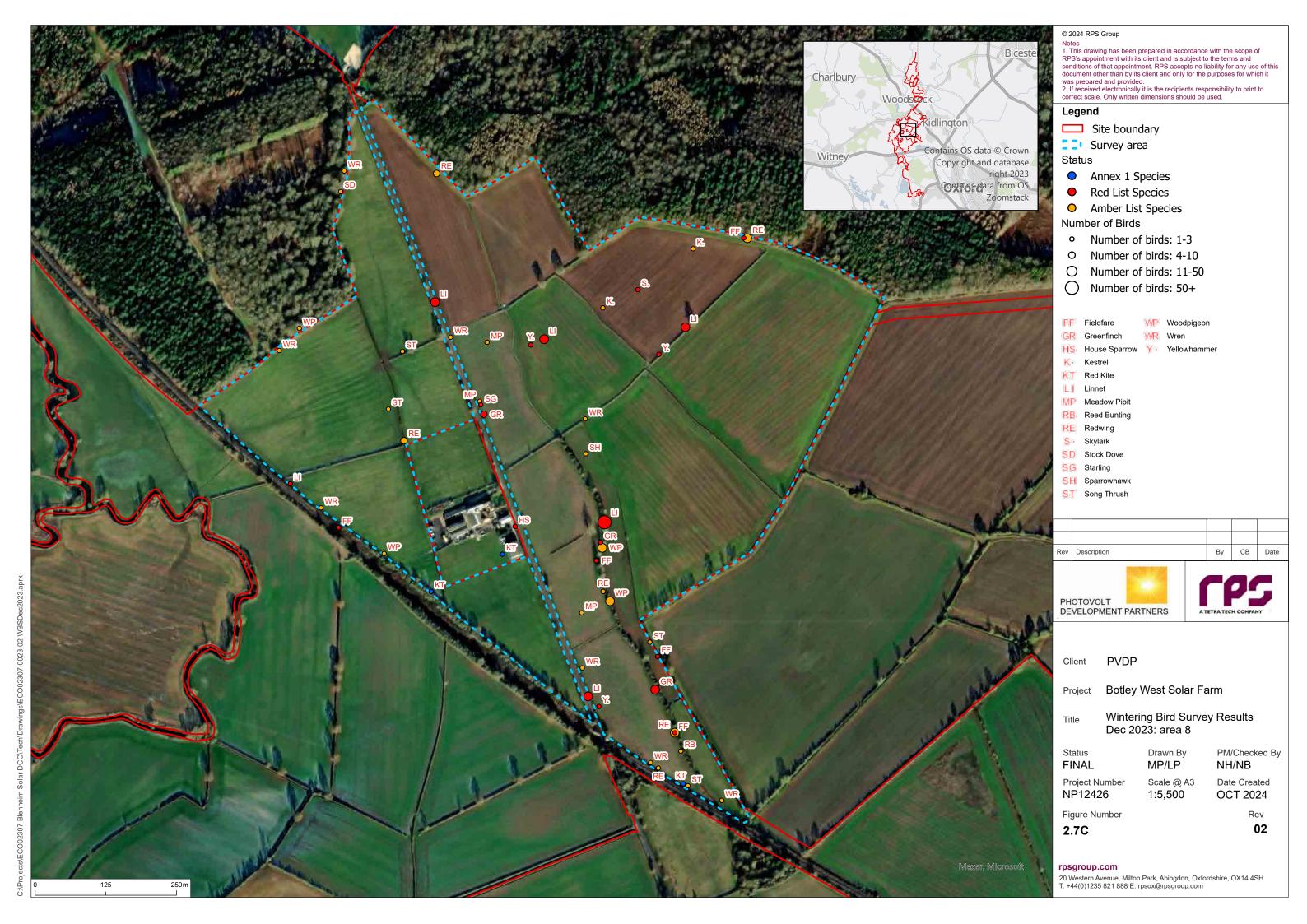
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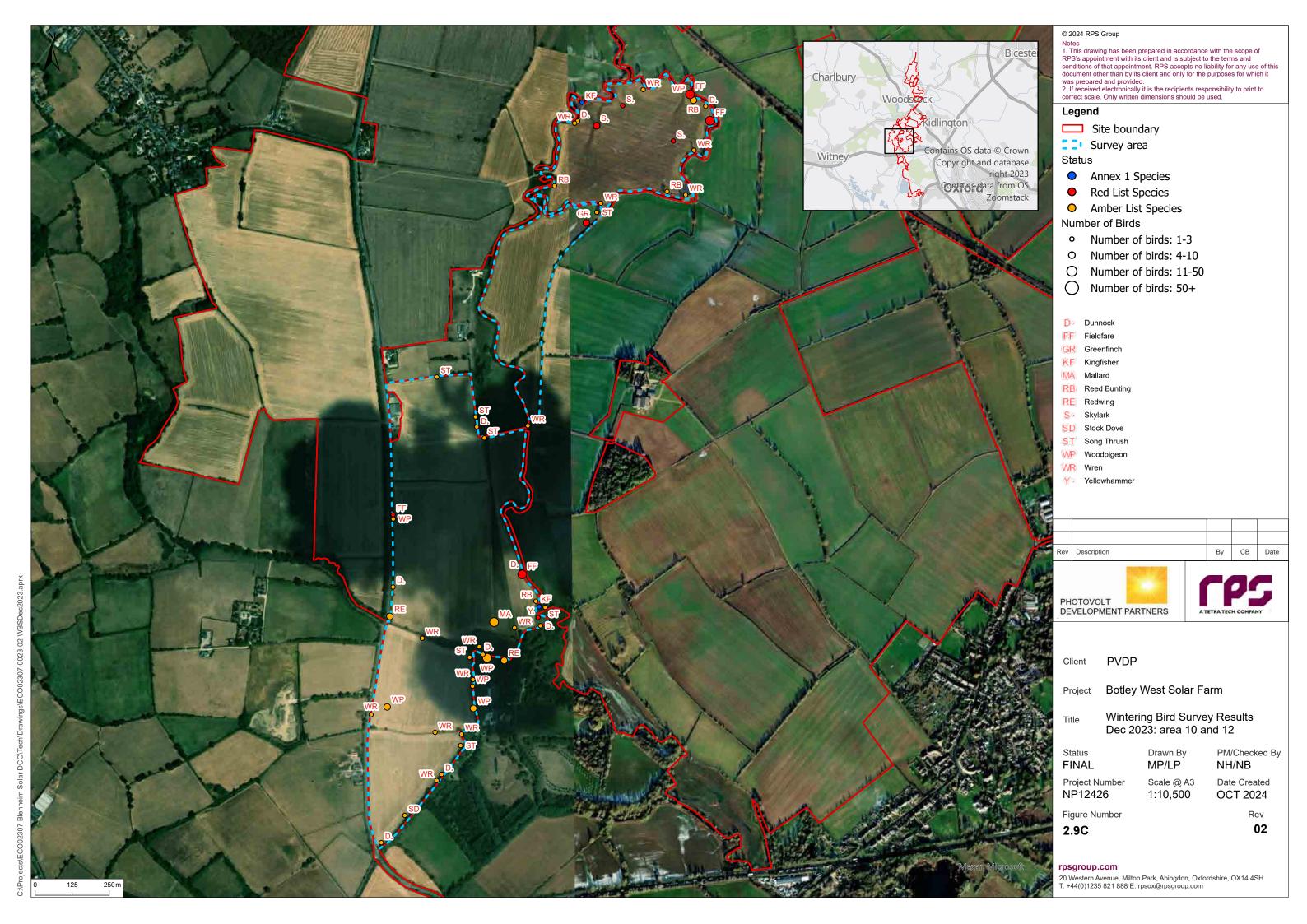


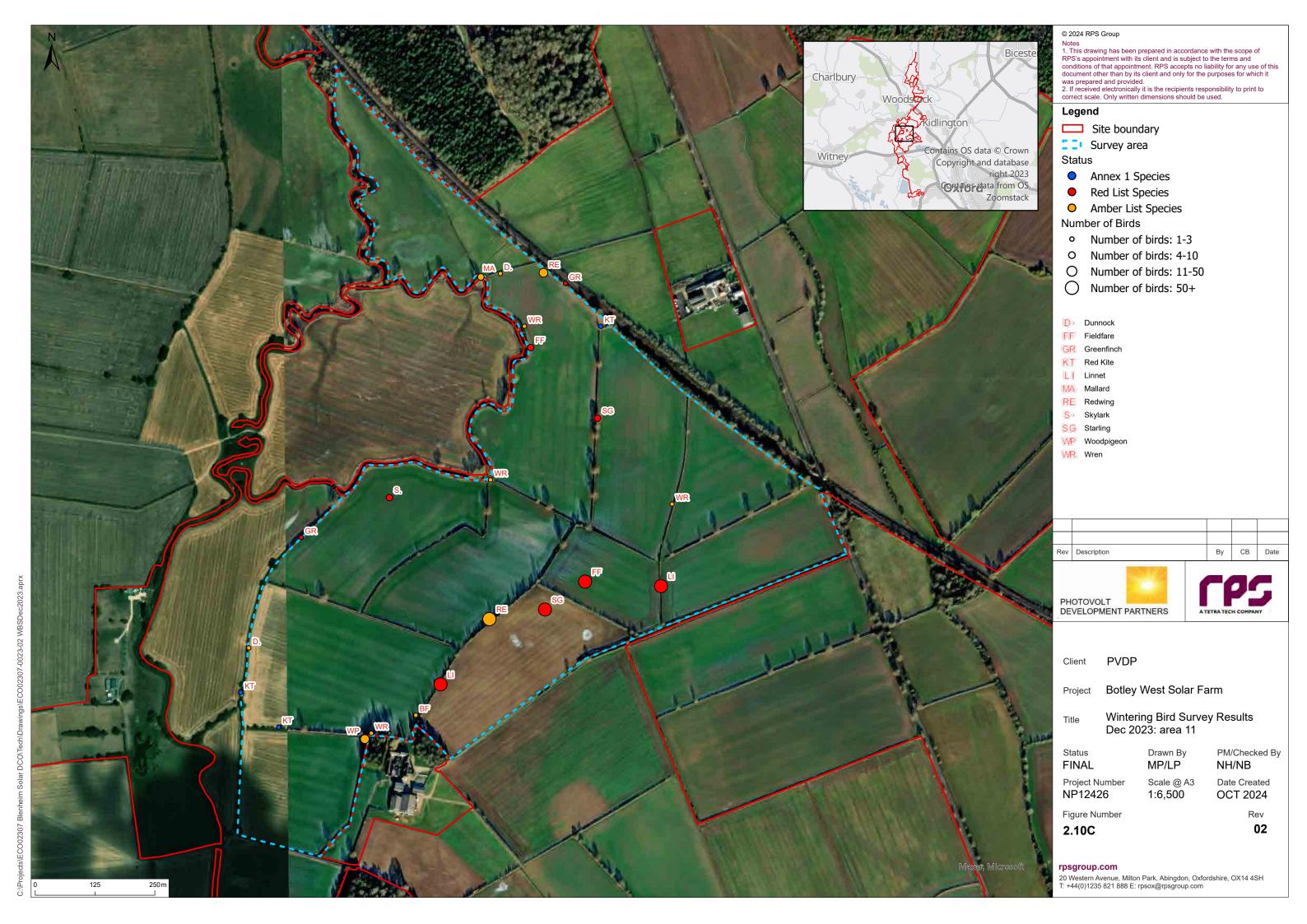


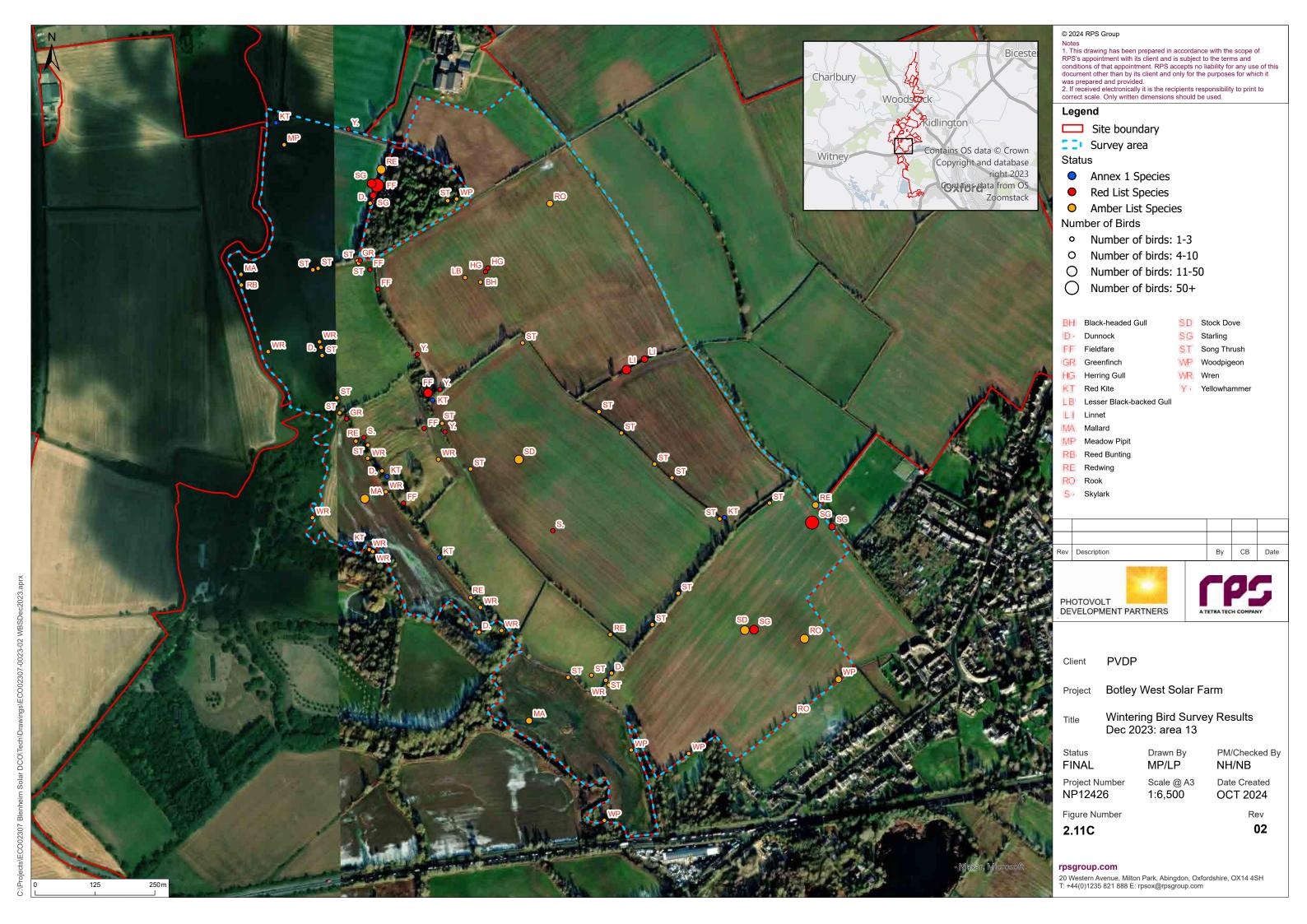


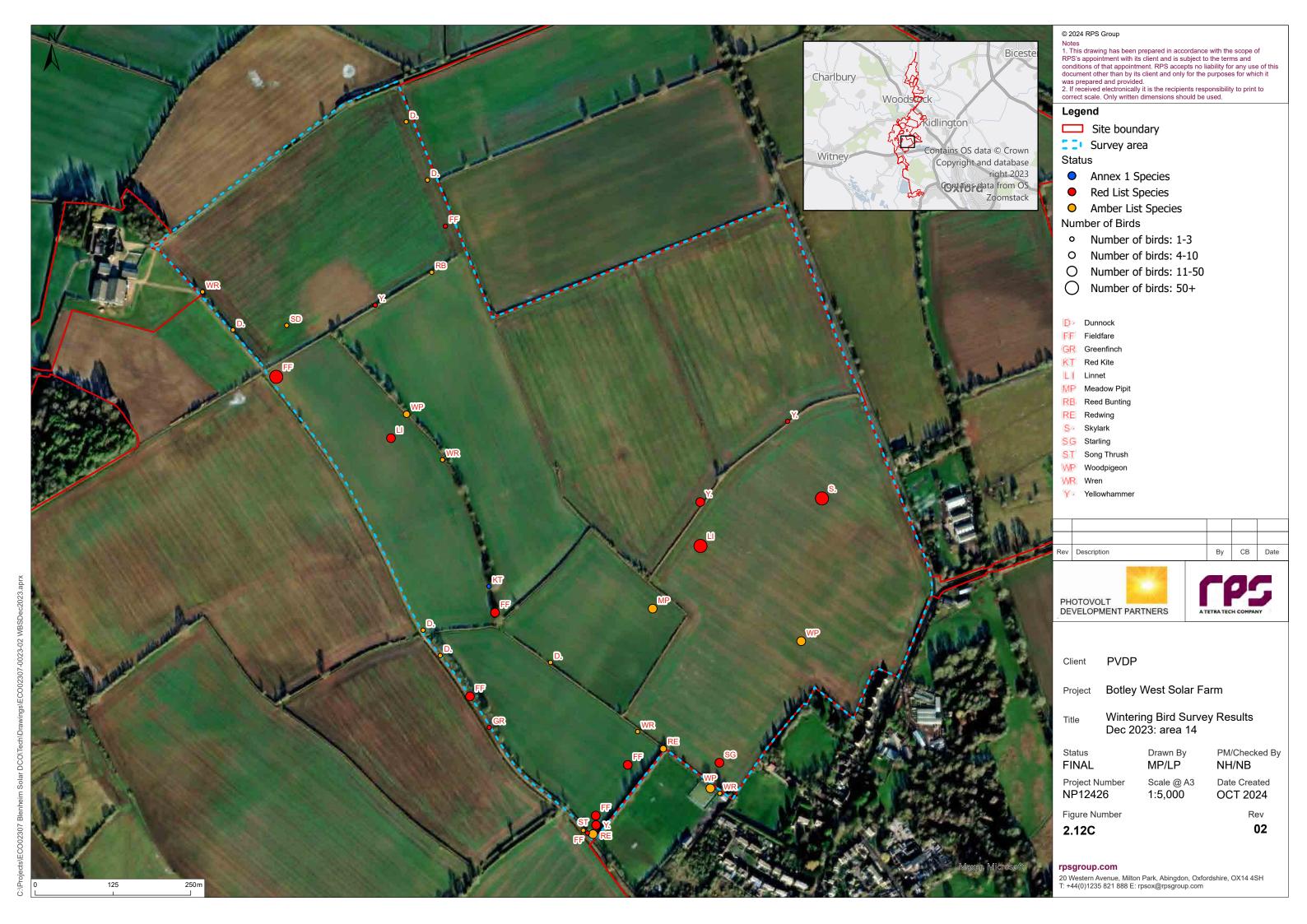






















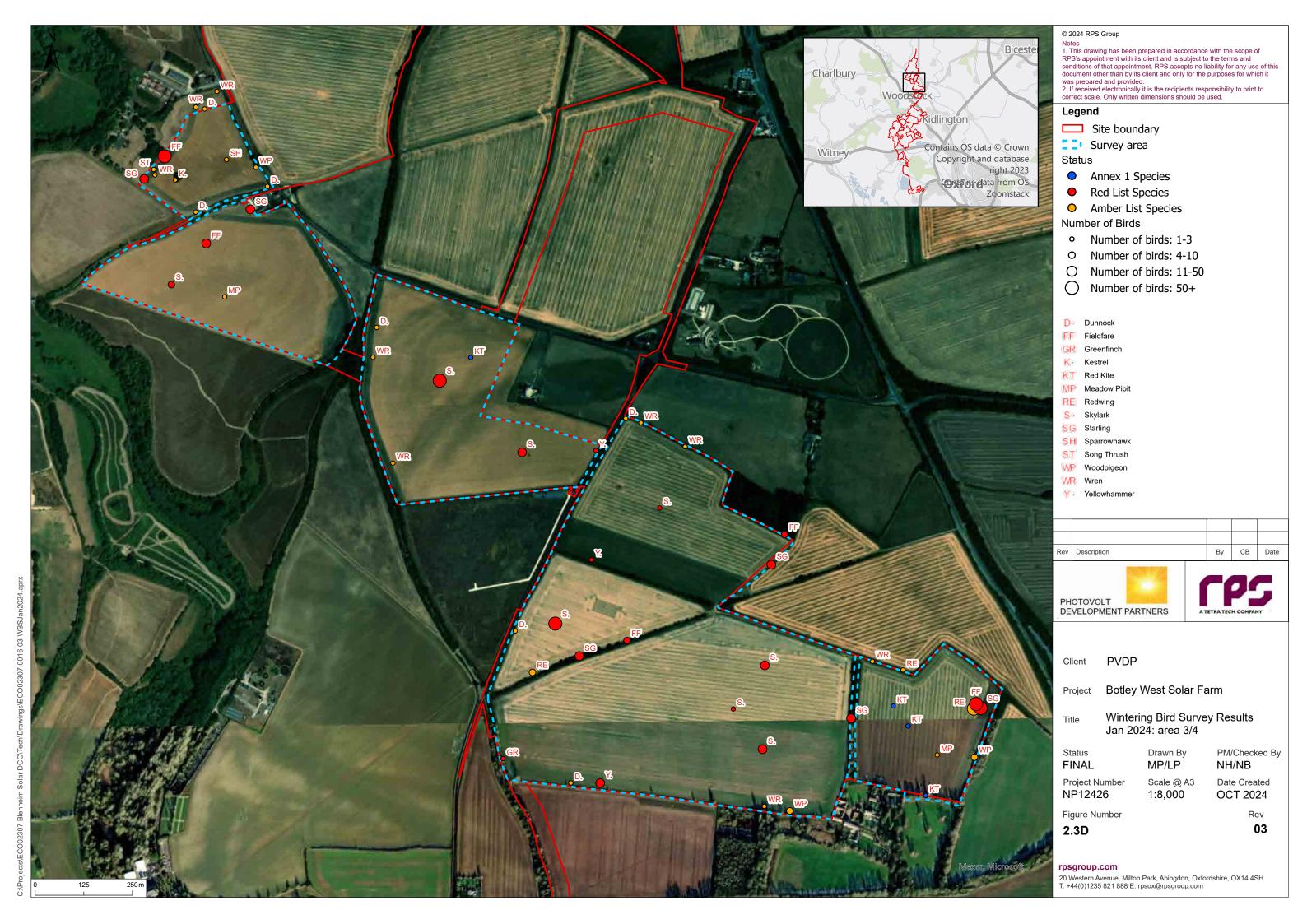


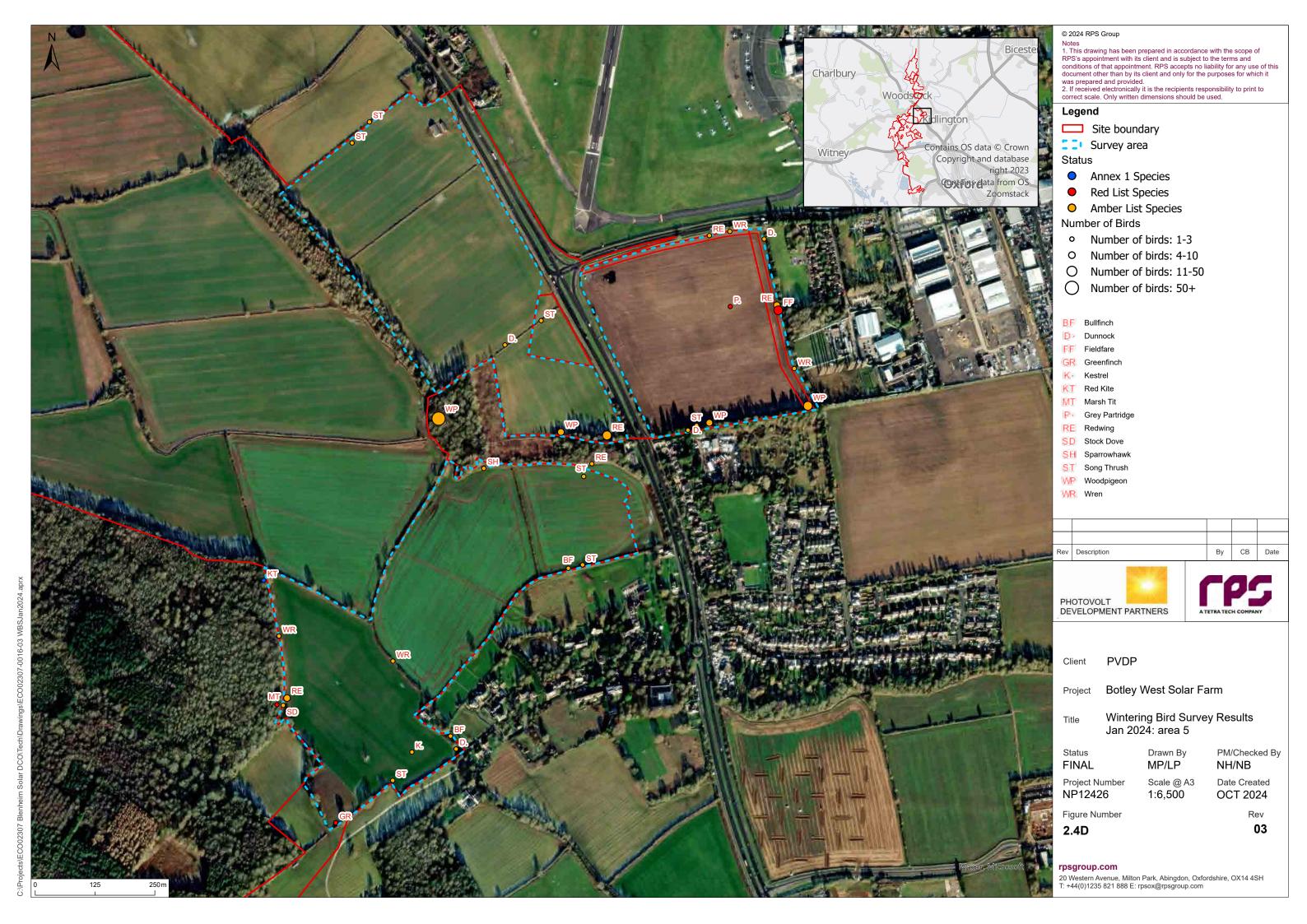
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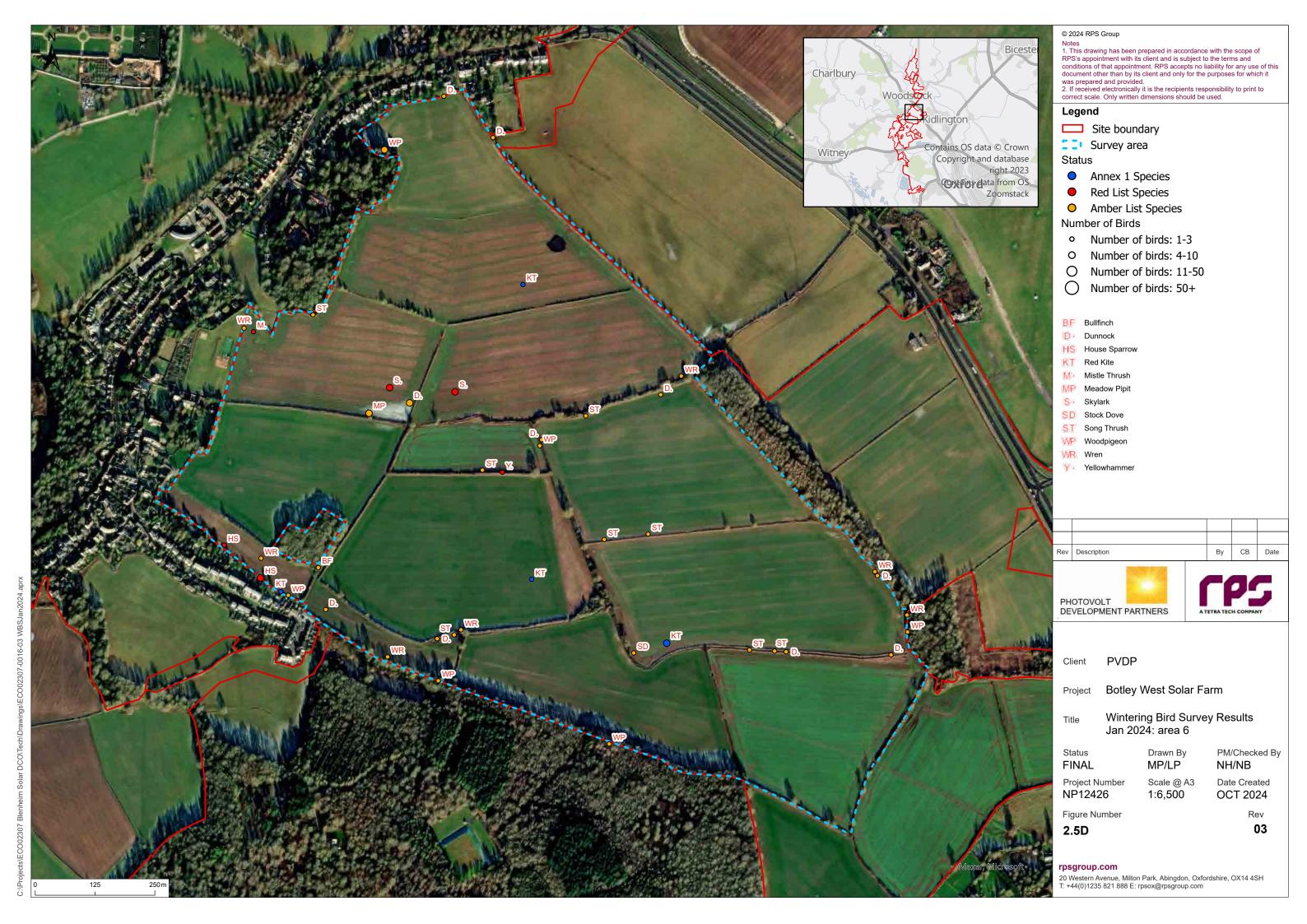
OCT 2024

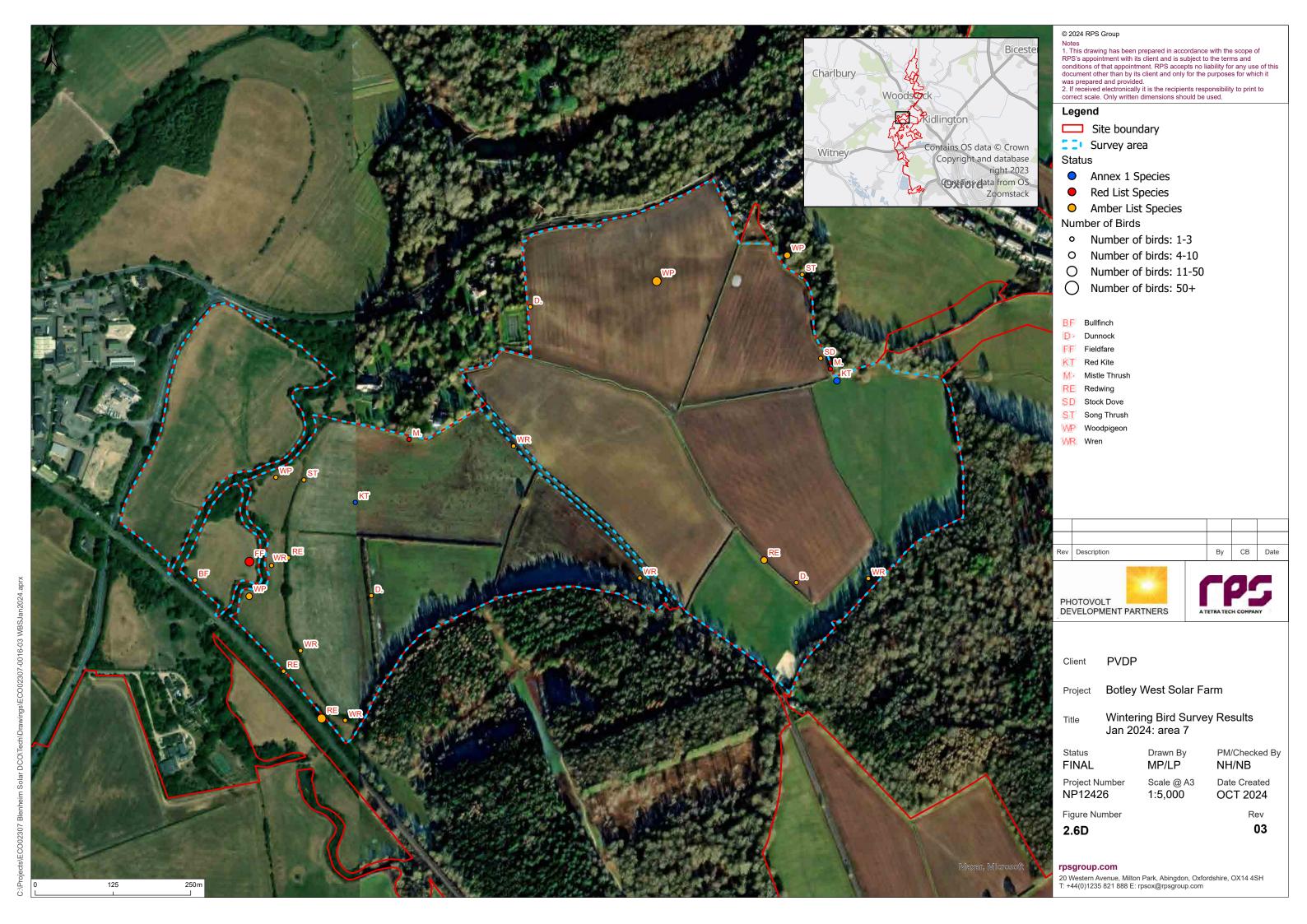
Rev 03

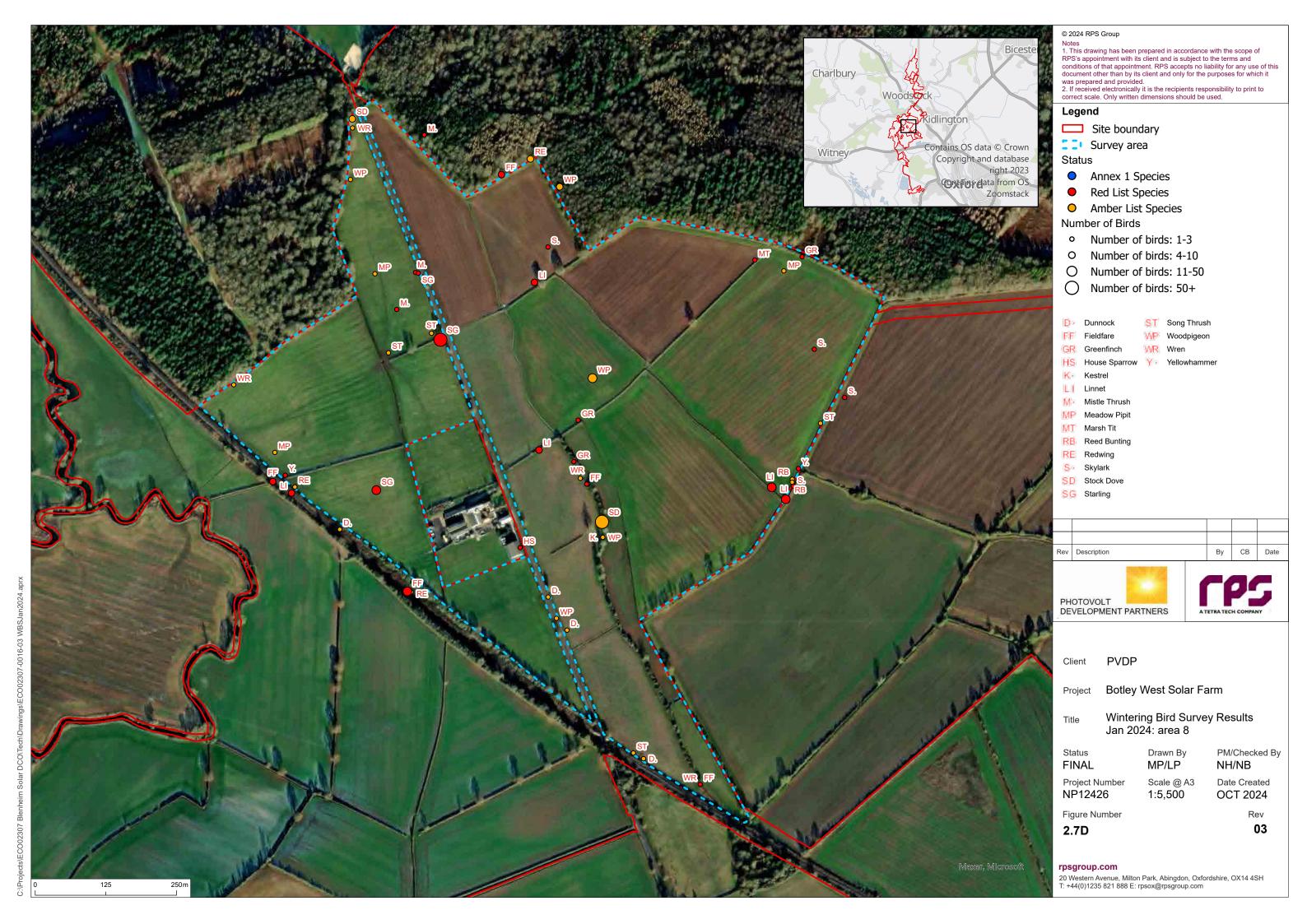
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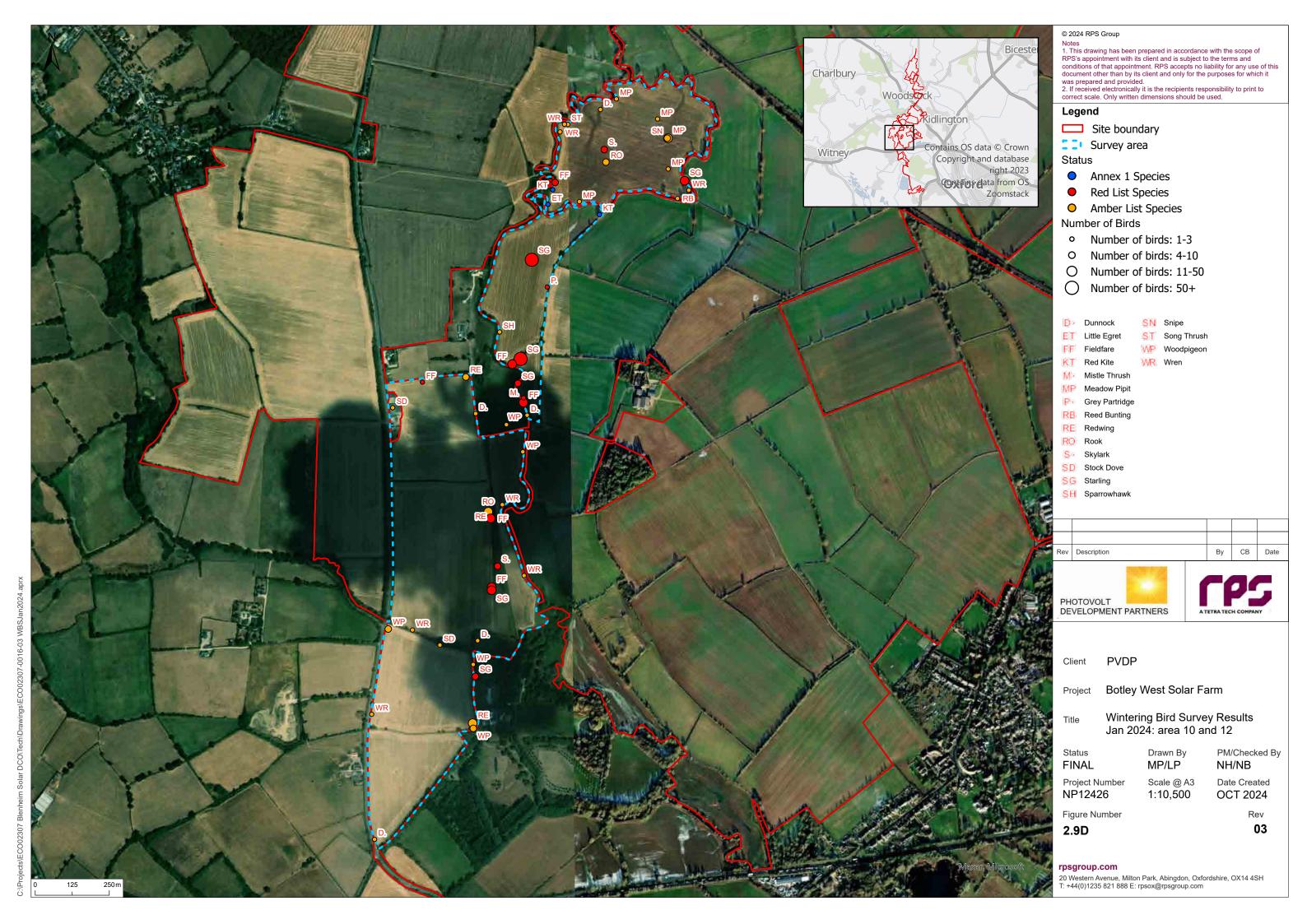


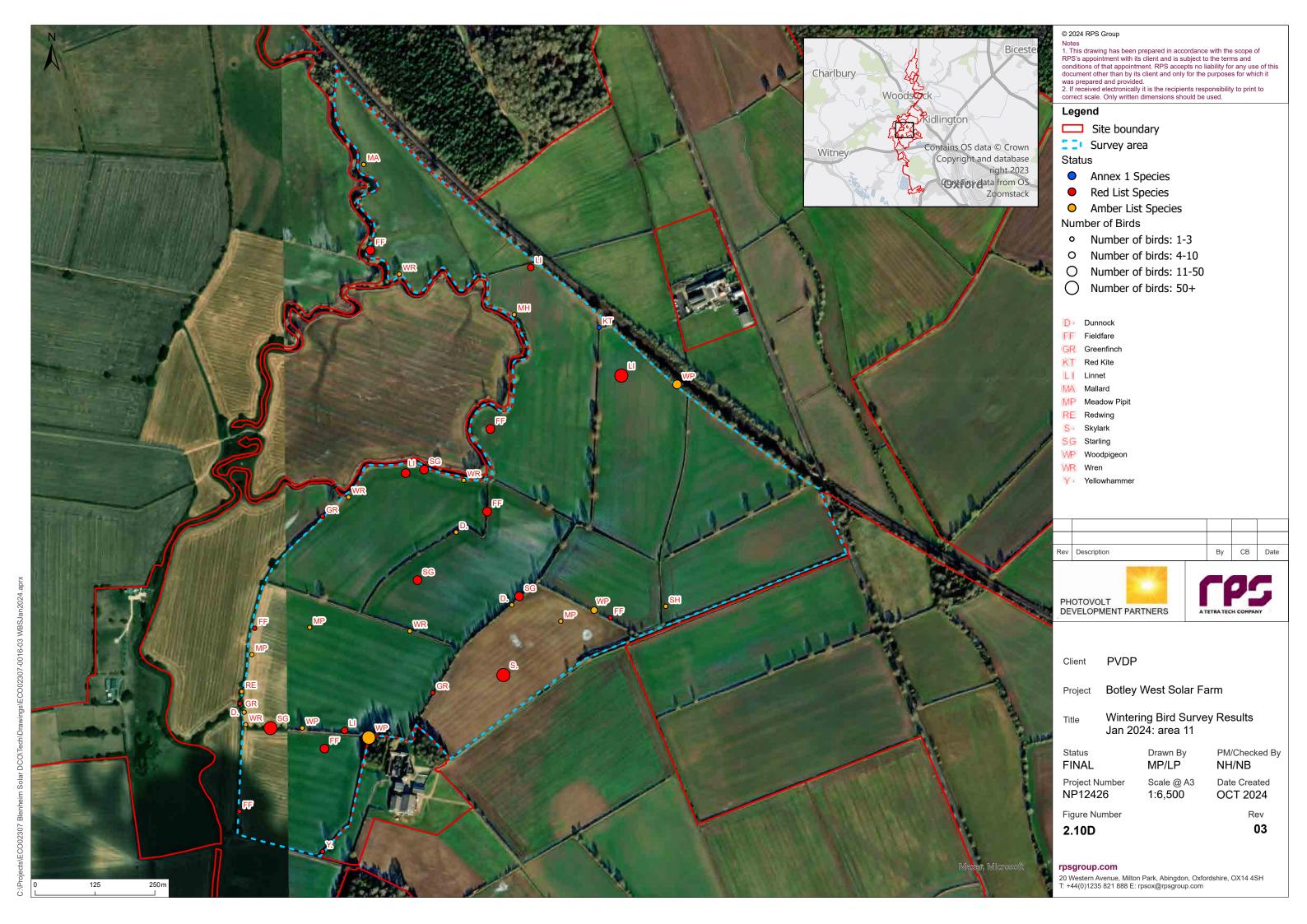


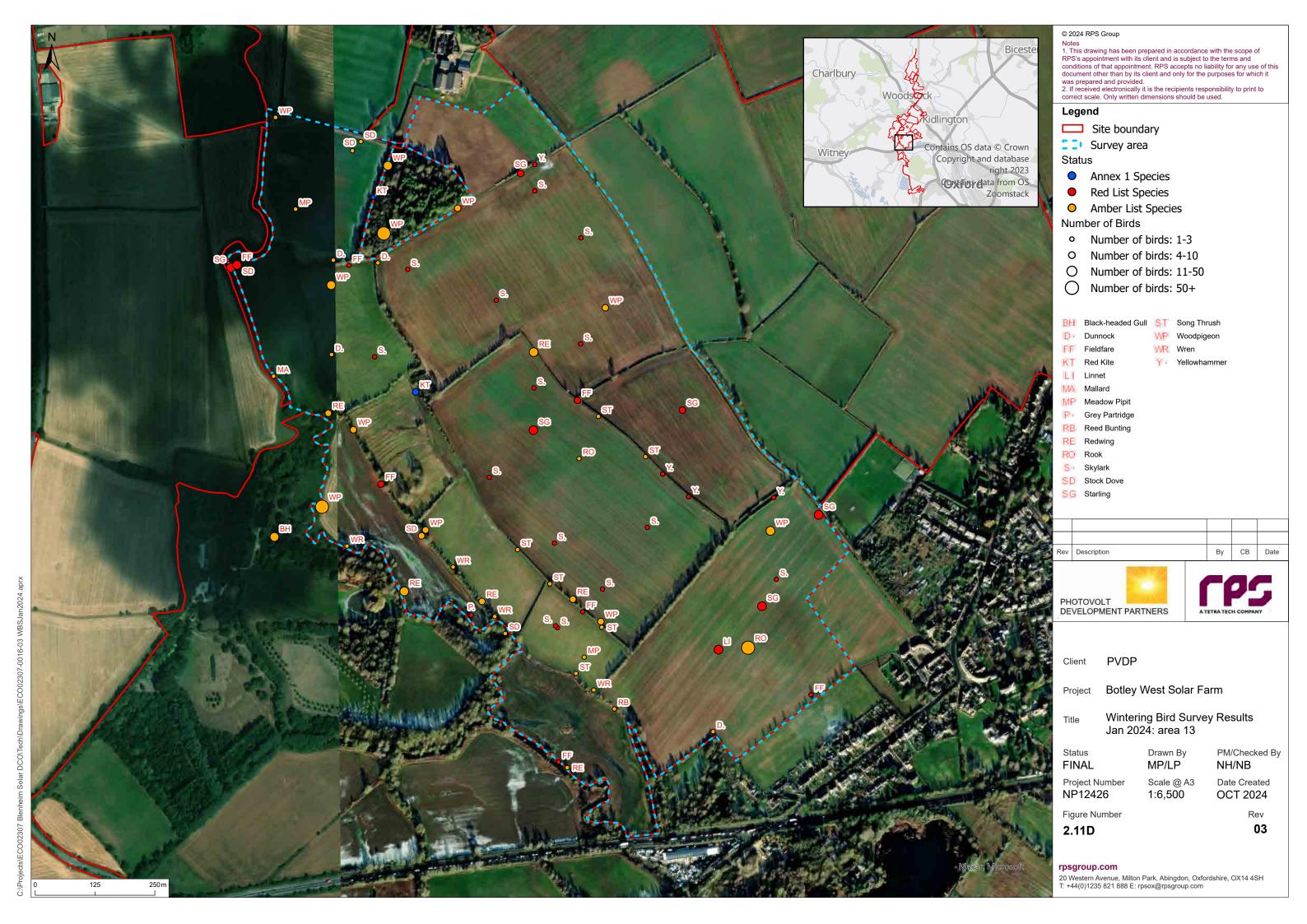


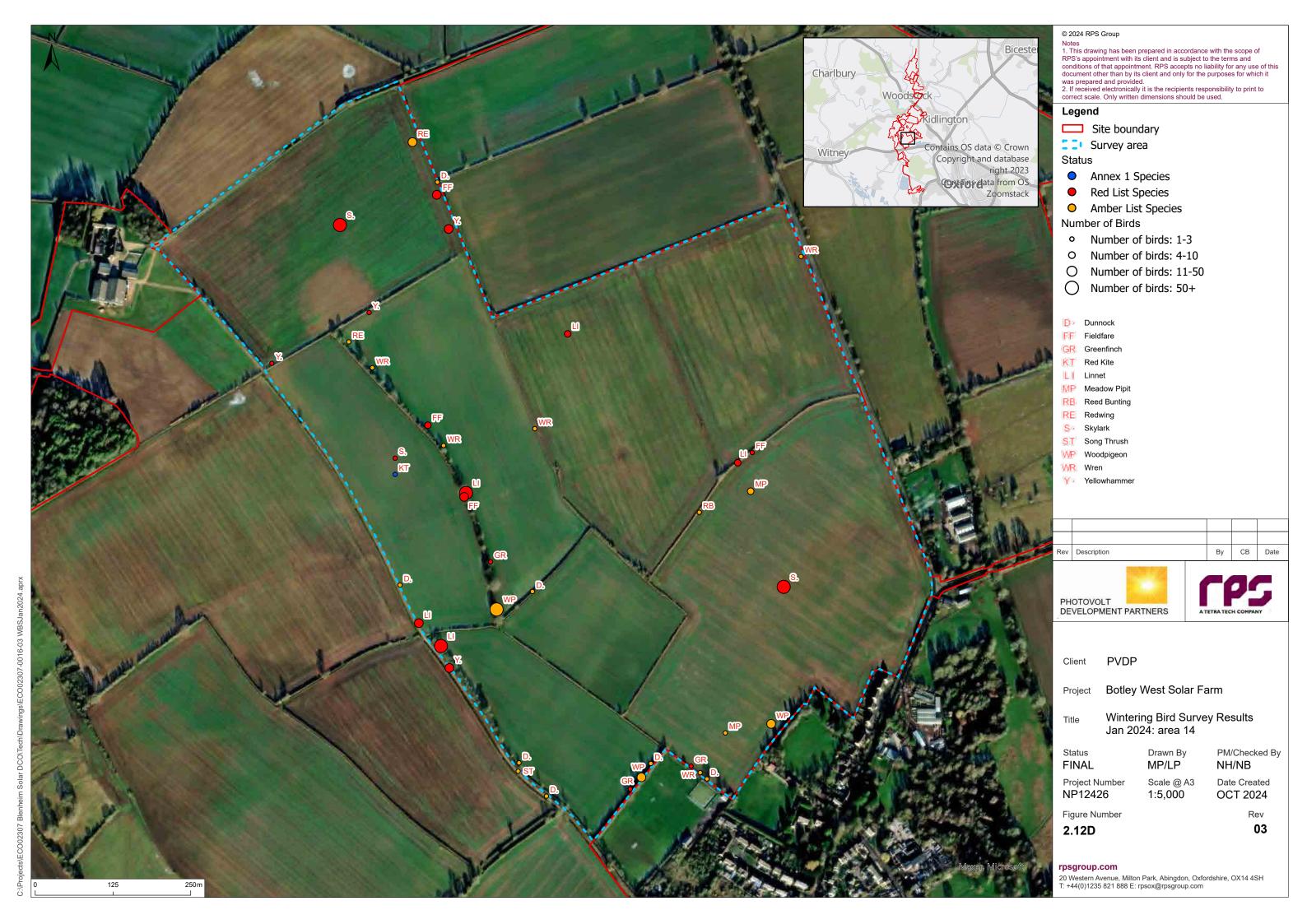










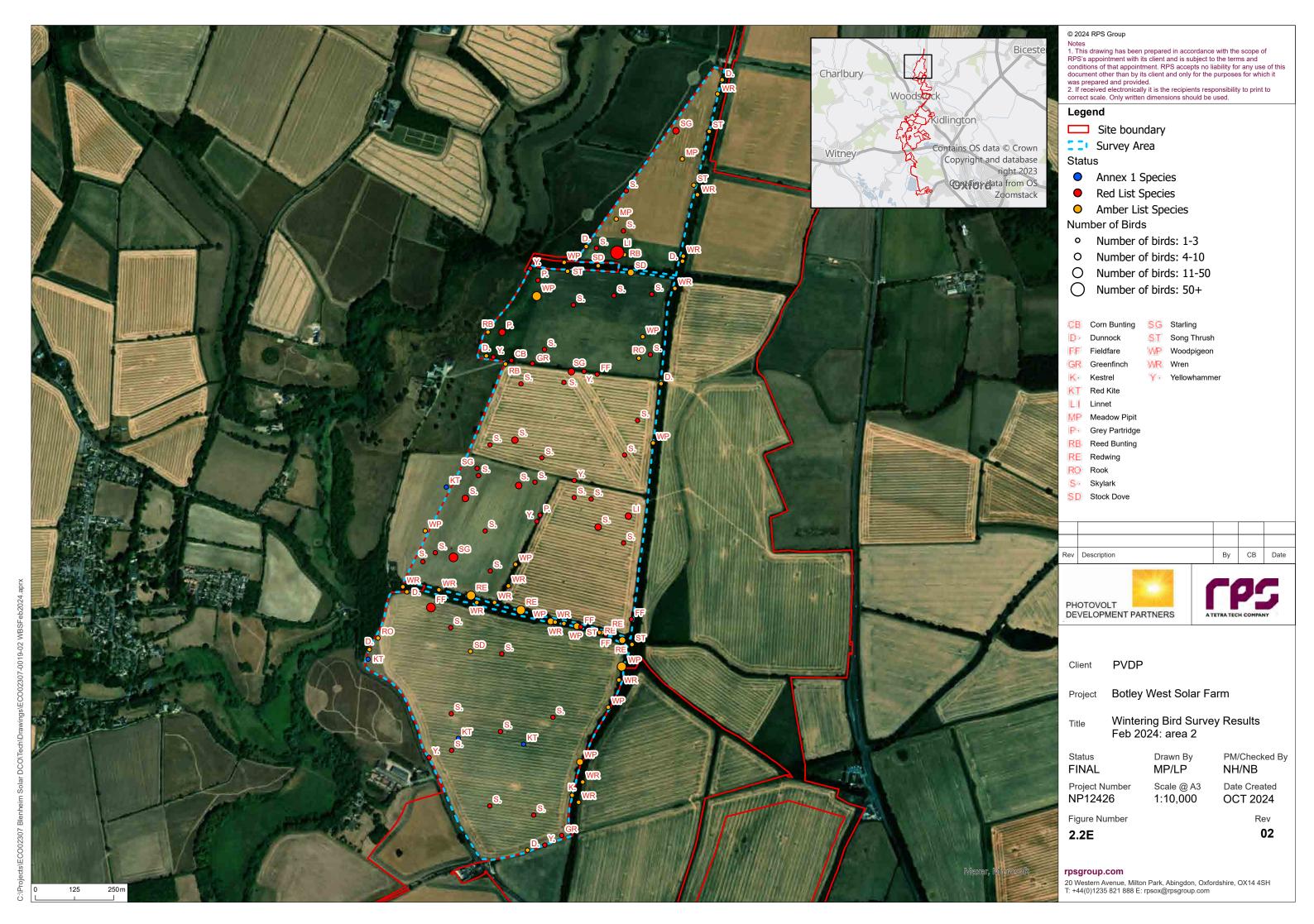


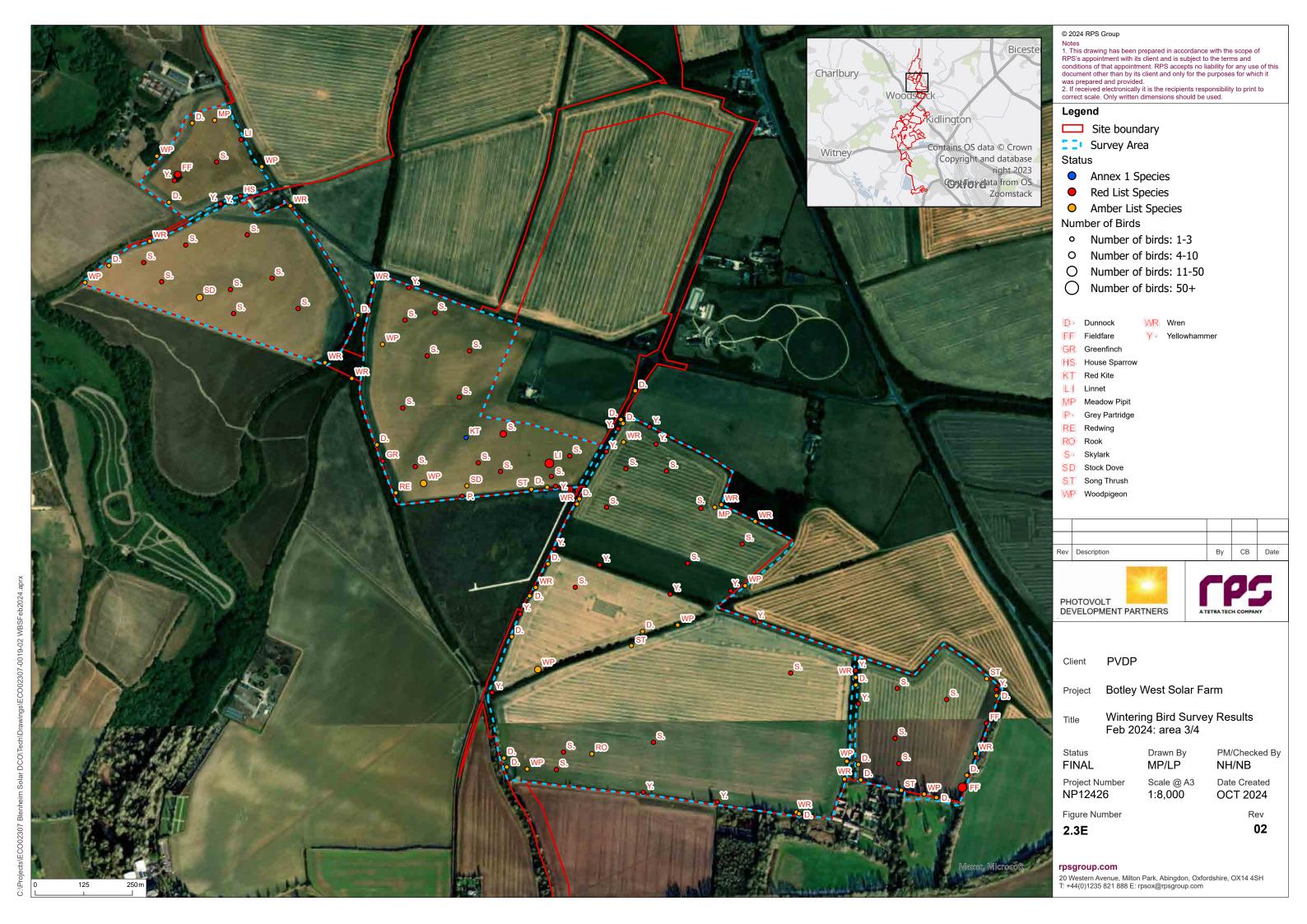




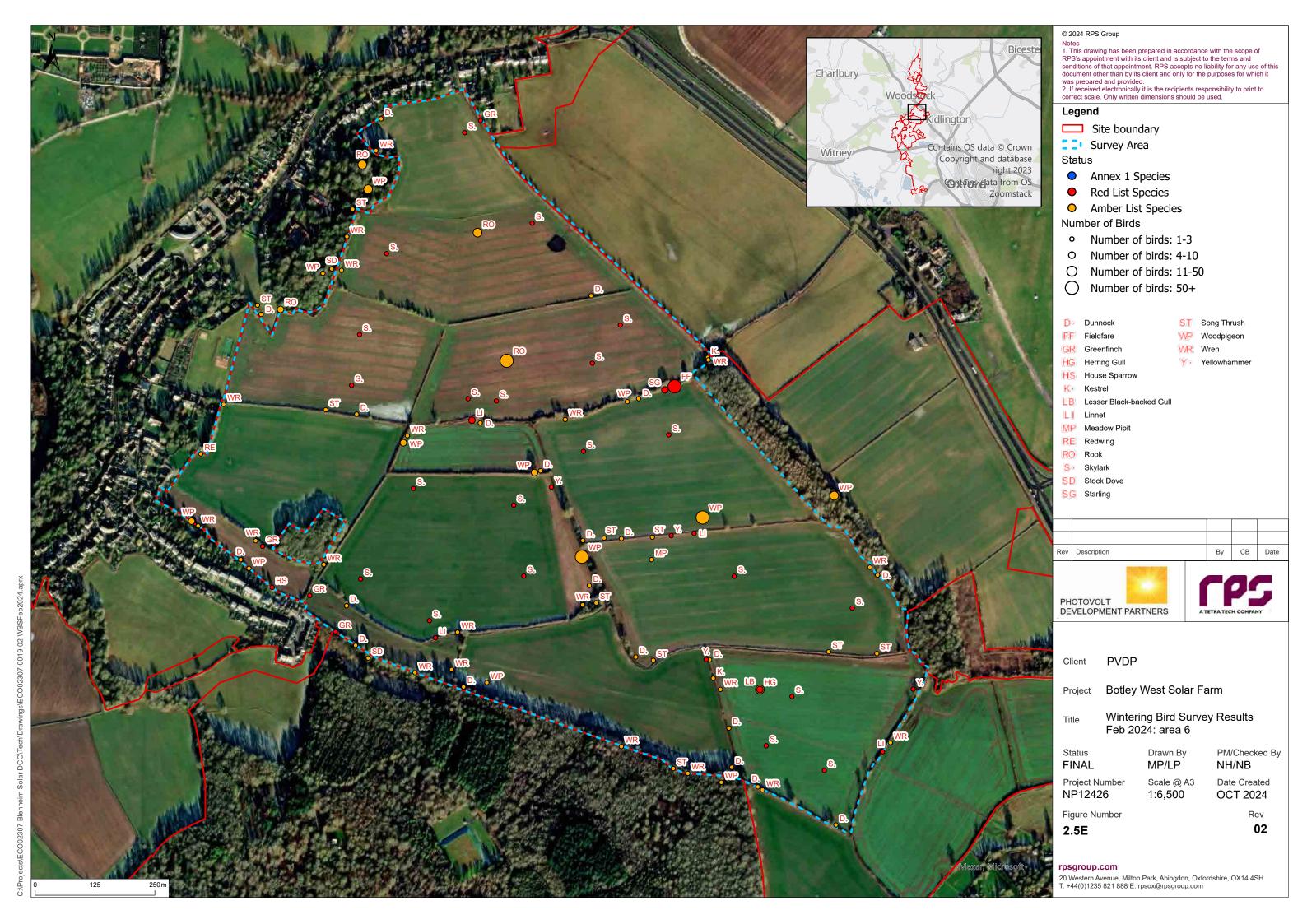


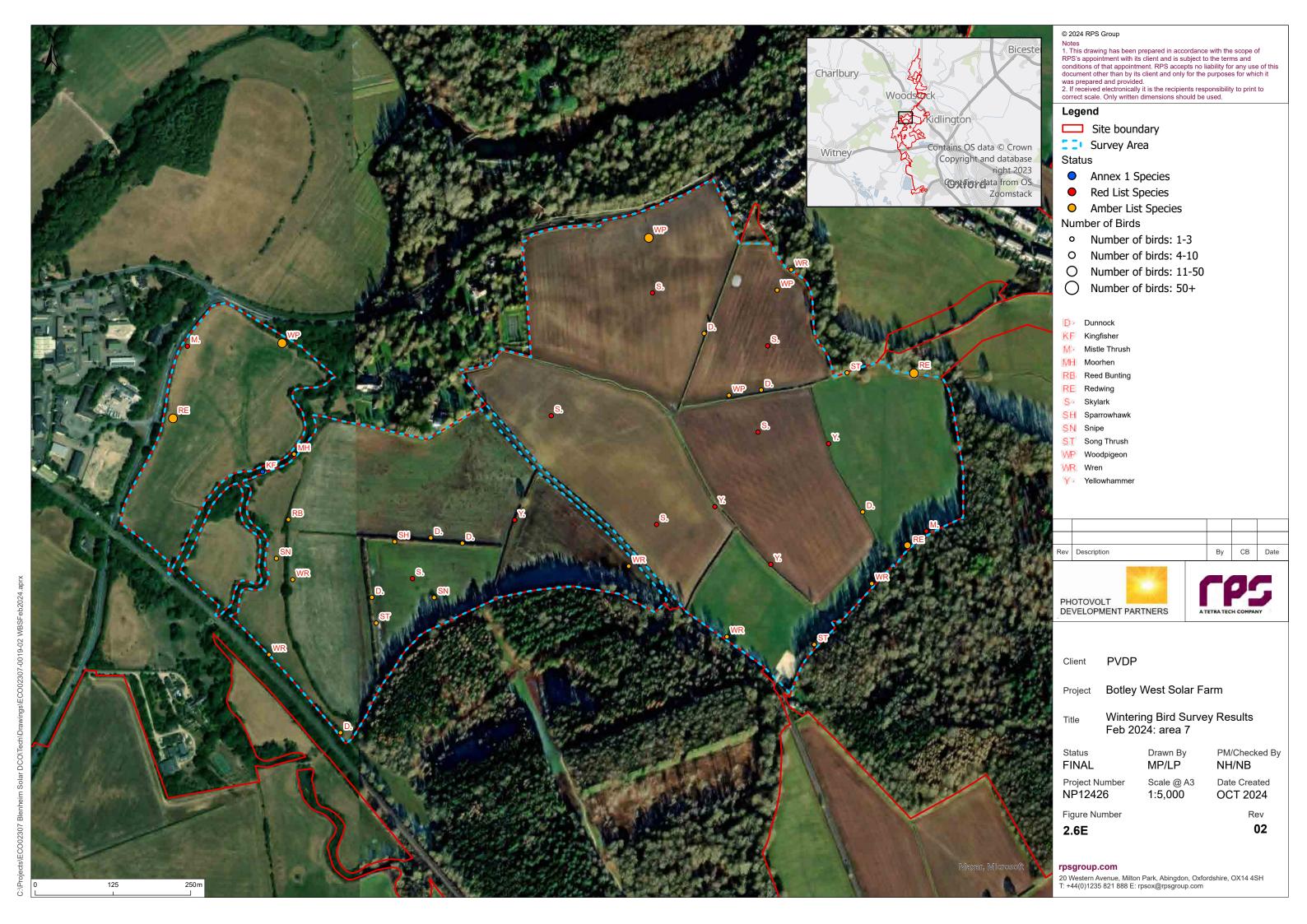


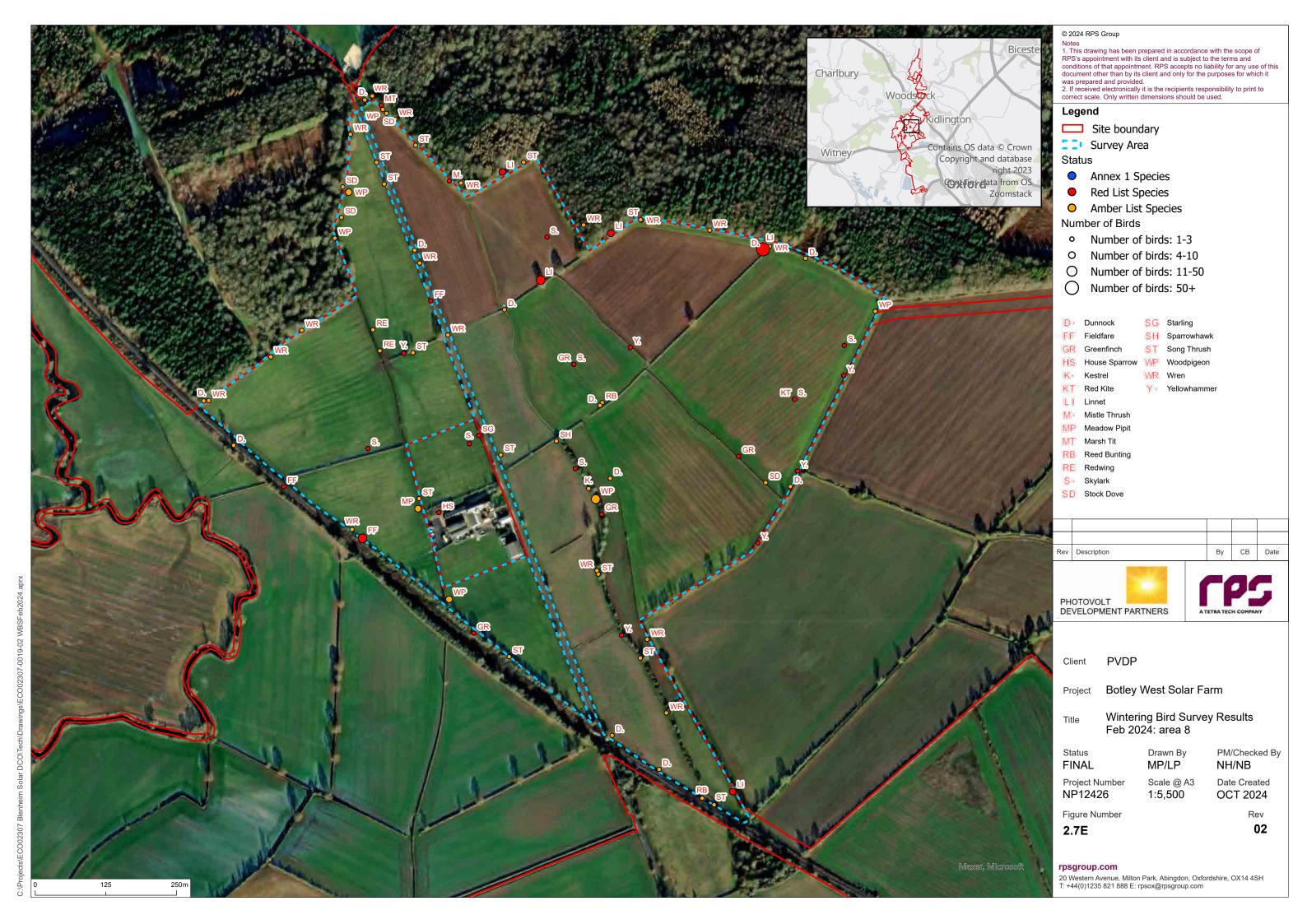




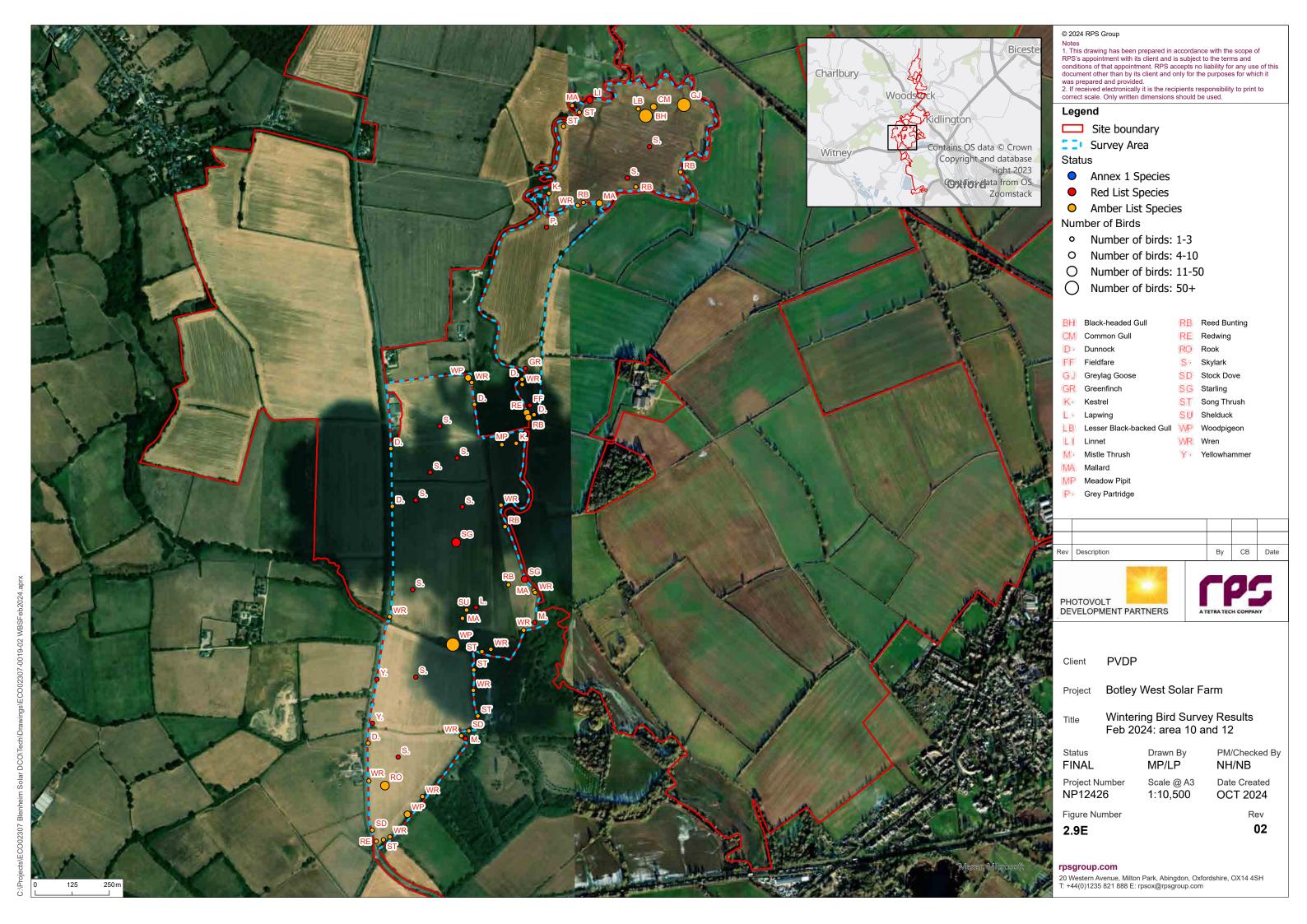


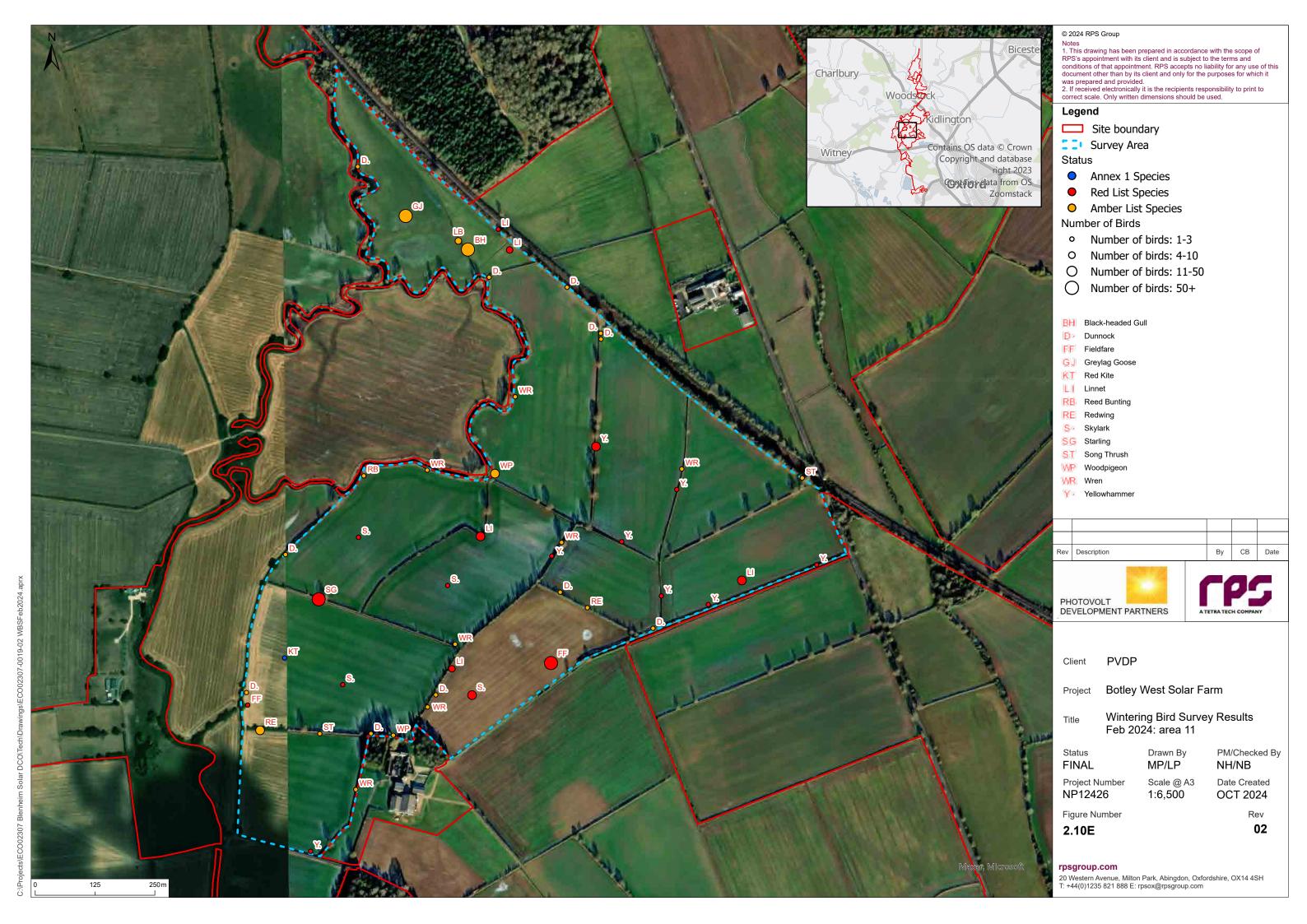


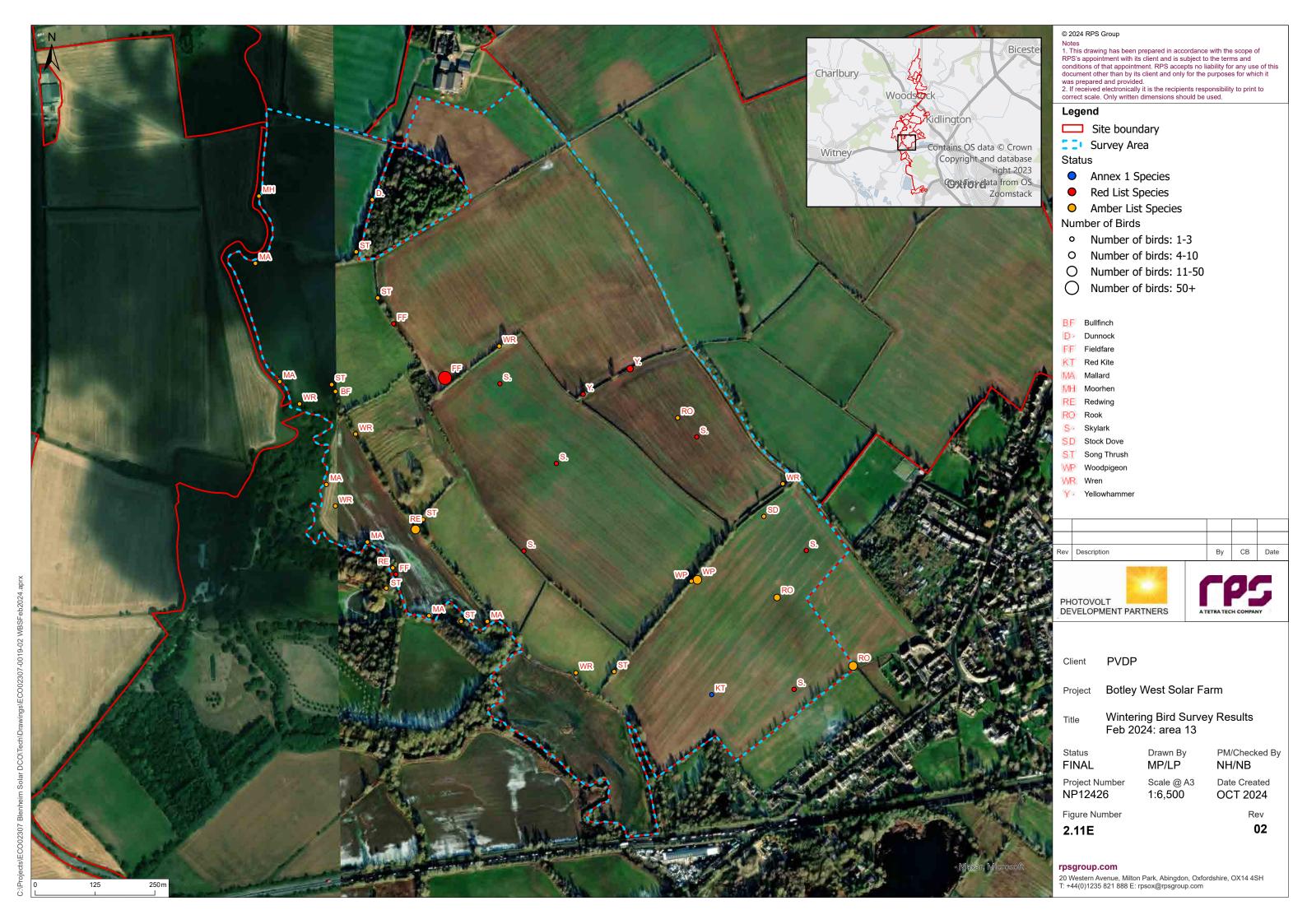


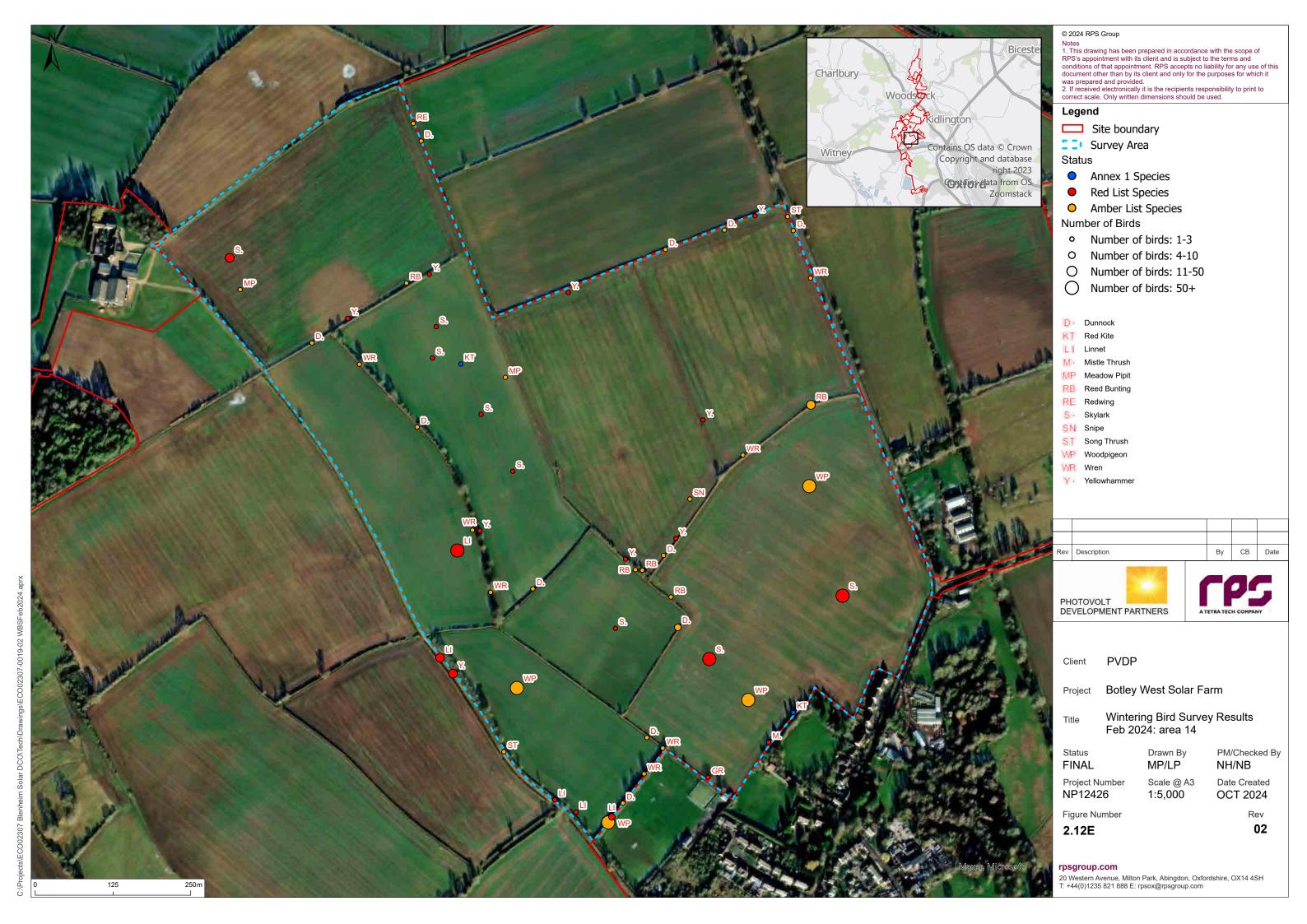




















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2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.

Legend

☐ Site boundary

Survey area

Status

• Annex 1 Species

Red List Species

Amber List Species

Number of Birds

Number of birds: 1-3 Number of birds: 4-10

Number of birds: 11-50

Number of birds: 50+

WP Woodpigeon

Description	Ву	СВ	Date

PHOTOVOLT DEVELOPMENT PARTNERS



PVDP Client

Botley West Solar Farm

Wintering Bird Survey Results Mar 2024: area 1

Drawn By PM/Checked By **FINAL** MP/LP NH/NB Project Number Scale @ A3

NP12426

Date Created 1:8,000 OCT 2024

Figure Number

Rev

02

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Rev 02

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