

FIVE ESTUARIES OFFSHORE WIND FARM

VOLUME 6, PART 6, ANNEX 4.12: DORMOUSE SURVEY REPORT: NORTH **OF A120**

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FIVE ESTUARIES OFFSHORE WIND FARM

Dormouse Report: North of the A120

Prepared for: GoBe Consultants (on behalf of Five Estuaries Offshore Wind Farm Ltd)



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Habitat Based Assessment Raw Data

1.0 Introduction

Five Estuaries Offshore Wind Farm (VE OWF) is a Nationally Significant Infrastructure Project (NSIP). An Environmental Impact Assessment (EIA) is being undertaken as part of a Development Consent Order (DCO) application under the Planning Act 2008.

SLR Consulting was commissioned by GoBe Consultants, on behalf of Five Estuaries Offshore Wind Ltd, to undertake a dormouse (*Muscardinus avellanarius*) survey of those relevant parts of the project site that may be affected by the construction and operation of the onshore aspects of the VE OWF project north of the A120. These comprise the installation of a cable within a working corridor and the construction of a substation (hereafter referred to as "onshore infrastructure").

As the Five Estuaries project progresses, the emerging scheme design will continue to be refined and so the precise locations and final extent of the proposed scheme are subject to change. Therefore, the scheme details presented in this report may vary from those that are ultimately presented within the ES, but the survey area includes all areas currently under consideration at the time of survey.

1.1 Survey Area

In accordance with the PEA report¹, the dormouse survey first comprised of a habitat-based assessment of hedgerows and woodland within the Survey Area as shown on Drawing 1. Thereafter, nest tube survey was undertaken at all woodlands and hedgerows that may be breached north of the A120 and which are potentially suitable for use by dormice.

Within this report the following terms are used:

- Study Area: This is the 2km zone around the draft Order Limits available at the time of survey.
- Survey Area: Within the RLB available at the time of survey, plus the surrounding area that is within 100 m (i.e. 100 m either side of the onshore export cable corridor (ECC) and to all sides of any other infrastructure or works areas such as Temporary Construction Compounds (TCCs) and access tracks).
- Areas other than these are specifically described.

1.2 Purpose of this Report

This report presents the findings of the 2022 dormouse survey north of the A120. The report seeks to establish baseline conditions and identify habitats that may be important for the species. The assessment of impacts resulting from the onshore elements of Five Estuaries OWF is beyond the scope of this report and is covered in the Onshore Biodiversity and Nature Conservation chapter of the ES.

The main objectives of the work were to:

- identify the extent of suitable habitat for dormice within the Survey Area;
- determine the presence/absence of dormice within the Survey Area; and
- evaluate the importance of the dormouse population (if present) in a local, regional and national context.

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¹ Five Estuaries Offshore Wind Farm: Preliminary Ecological Appraisal (Onshore), SLR Consulting, May 2022

1.3 Evidence of Technical Competence and Experience

Shannon Davies, Senior Ecologist at SLR and Qualifying member of CIEEM, conducted the habitat assessment survey in May 2022. Shannon holds a dormouse survey licence (2021-55437-CLS-CLS) and maintains 4 years' experience in ecology surveys, habitat assessments and ecological report writing.

A team of ecologists from Thomson Environmental Consultants (Thomson) undertook the presence/absence survey (dormouse tube installation and follow up checks). At least one NE licence holder or accredited agent was present during all surveys. Details for the Thomson surveyors are detailed in Table 1-1.

Table 1-1
Thomson Survey Staff

Name	Professional Membership & Licence details	Years of experience of dormouse survey
Lisa Wood	BSc (Hons) ACIEEM Accredited under the licence of Kate Taylor BSc (Hons) MSc MCIEEM 2016-21211-CLS-CLS	3
Jessica Green	BSc (Hons) MSc Qualifying member of CIEEM	2
Calum McSorley	BSc (Hons) MSc	1
Matthew Smart	BSc (Hons) Qualifying member of CIEEM	1
Jessica Sweeney	BSc (Hons) MSc Qualifying member of CIEEM	1
Chelsea Brydon	BSc (Hons) MSc Qualifying member of CIEEM	2

Hannah McBlain, Project Ecologist at SLR and Qualifying member of CIEEM, authored this survey report and maintains 2 years' experience in ecological report writing including in support of PEAs, EIAs and species survey reports.

Jess Colebrook reviewed this report and is a Principal Ecologist at SLR Consulting with over 22 years' experience as a professional ecologist. She is a Chartered Environmentalist (CEnv) and a full member of CIEEM (MCIEEM). Jess is leading the onshore ecological work necessary to inform the EIA for the Five Estuaries Offshore Wind Farm project.

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2.0 Methodology

2.1 Hazel nut search and initial habitat assessment

Dormice leave characteristic chew marks in hazel nuts which, if found, are sufficient to conclude dormouse are present. Hazel nut searches were undertaken during all surveys noted below and within accessible woodlands/hedgerows during the field survey undertaken for the PEA and during the UKHab survey².

2.2 Habitat-based assessment

This assessment was undertaken between the 9th and 12th May 2022. The location of each hedgerow or woodland that was subject to this assessment is indicated on Drawing 1. The habitat-based assessment involved recording the following key attributes:

- Presence of dormouse food plants, and which species;
- If presence/absence (nest tube) survey was required;
- Justification for further survey, comprising one (or more) of the following:
 - species rich hedge;
 - Thick wide hedge connected to woodland;
 - Large wood;
 - Adjacent to ASNW or PAWS;
 - Wide range broadleaved species;
 - Wide range of tree ages;
 - Species rich shrub layer or rides; and/or
 - Hazel or sweet chestnut coppice.
- Justification for no further survey requirement, comprising one (or more) of the following:
 - species poor or defunct hedge;
 - Small wood;
 - Isolated from other woodland or hedges;
 - Little or no shrub understorey;
 - No fruiting broadleaved trees;
 - Old conifer plantation;
 - High local deer population;
 - Presence of cattle, sheep or pigs;
 - Seasonally waterlogged; and/or
 - Derelict coppice or clear fell.

² For a copy of the Habitat and Hedgerow Survey undertaken in 2022 refer to Five Estuaries Offshore Wind Farm Environmental Statement Volume 5, Annex 4.2.



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2.3 Presence/Absence Survey (Nest tube survey)

Following the habitat-based assessment, all hedgerows assessed as being suitable for use by dormouse were subject to presence/absence survey using nest tubes. The nest tube survey was conducted in accordance with standard methods³. A total of 182 nest tubes were installed across six broad areas (labelled A - F) as shown on Drawing 1. The survey commenced in June 2022 and monitoring visits were undertaken at monthly intervals between July and November as shown in Table 2-1.

Table 2-1
Survey Dates and Details

Date	Temperature (oC)	Weather	Task
21 st – 30 th June 2022	N/A	N/A	Nest tubes installed.
17 th July 2022	34	Sunny and dry	Nest tubes checked (partially completed)
27 th July 2022	21	Overcast and dry	Nest tubes checked (completed).
28 th July 202	22	Overcast and dry	Tasks above completed.
23 rd August 2022	25	Overcast and dry	Nest tubes checked.
21st September 2022	20	Overcast and dry	Nest tubes checked.
19 th October 2022	16	Sunny and dry	Nest tubes checked (partially complete).
20 th October 2022	15	Overcast and dry	Task above completed.
28 th November 2022	10	Sunny and dry	Nest tubes checked and removed in final November survey.

Following the guidance³ an 'index of probability' is used to determine how many months the survey should span, i.e. when the survey effort is sufficient. It assumes the use of 50 nest tubes, and awards points to each month as an indicator of how likely it is that nests will be found in that month (Table 3 1). To determine presence or likely absence of dormouse, a minimum score of 20 points must be scored over several months of survey effort.

Table 2-2 shows the points allocated to each month during which dormice may be active i.e. it excludes the main hibernation period. The table is based on 50 dormouse nest tubes as assumed. If the number of tubes used is increased, the score for each month increases proportionately.

Table 2-2
Index of probability of finding dormice in nest tubes in any one month

	April	May	June	July	August	September	October	November
Index of probability	1	4	2	2	5	7	2	2

The search effort score for the nest tubes is detailed in Table 2-2Table 2-3. Areas A, B and C are considered together as there is linking vegetation between them, similarly areas D, E and F are considered together.

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³ Bright, P.W., Morris, P.A. and Mitchell-Jones, A. (2006). 'Dormouse Conservation Handbook 2nd Edition', (Peterborough: English Nature).

Table 2-3 Survey score for nest tubes

Area Reference	Total nest tubes	June – November Index Score	Survey Score (tubes/50 x Index Score)
A, B, C	50	20	20
D, E, F	147	20	58.8

2.3.1 Limitations

An ecological study provides only a "snapshot" of the conditions prevailing at the time of survey. Lack of evidence at the time of survey does not necessarily preclude dormice from being present within an area at a later date.

Several hedgerows were not subject to survey. This was either due to access difficulties, or because no potential impact to the hedgerow had been identified, as indicated on Drawing 1.

Nevertheless, given the site context and the types of habitat present, the level of survey is considered to be sufficient to assess the likely presence/absence of dormouse, and to meet the purpose of this report as set out in section 1.2.



3.0 Results

Results from the 2022 field surveys are summarised below:

- Most hedgerows within the Survey Area are unsuitable for use by dormouse. Raw data from the habitatbased assessment is included at Appendix 1;
- No evidence of dormouse has been recorded from nut searches;
- No evidence of dormouse has been found during presence/absence surveys undertaken at hedgerows deemed suitable for use, and which may be impacted by the scheme;
- Evidence of wood mouse *Apodemus sylvaticus* was found in the form of nests and nut stashes. These were observed in multiple nest tubes during the 3rd, 4th and 5th surveys visits.



4.0 Discussion and Conclusion

Most hedgerows within the Survey Area are unsuitable for use by dormouse due to a lack of foodplants, poor structure or lack of connectivity. Due to the lack of evidence to date, dormice are considered to be absent from the Survey Area, based on negative survey results from nut searches and presence/absence survey.

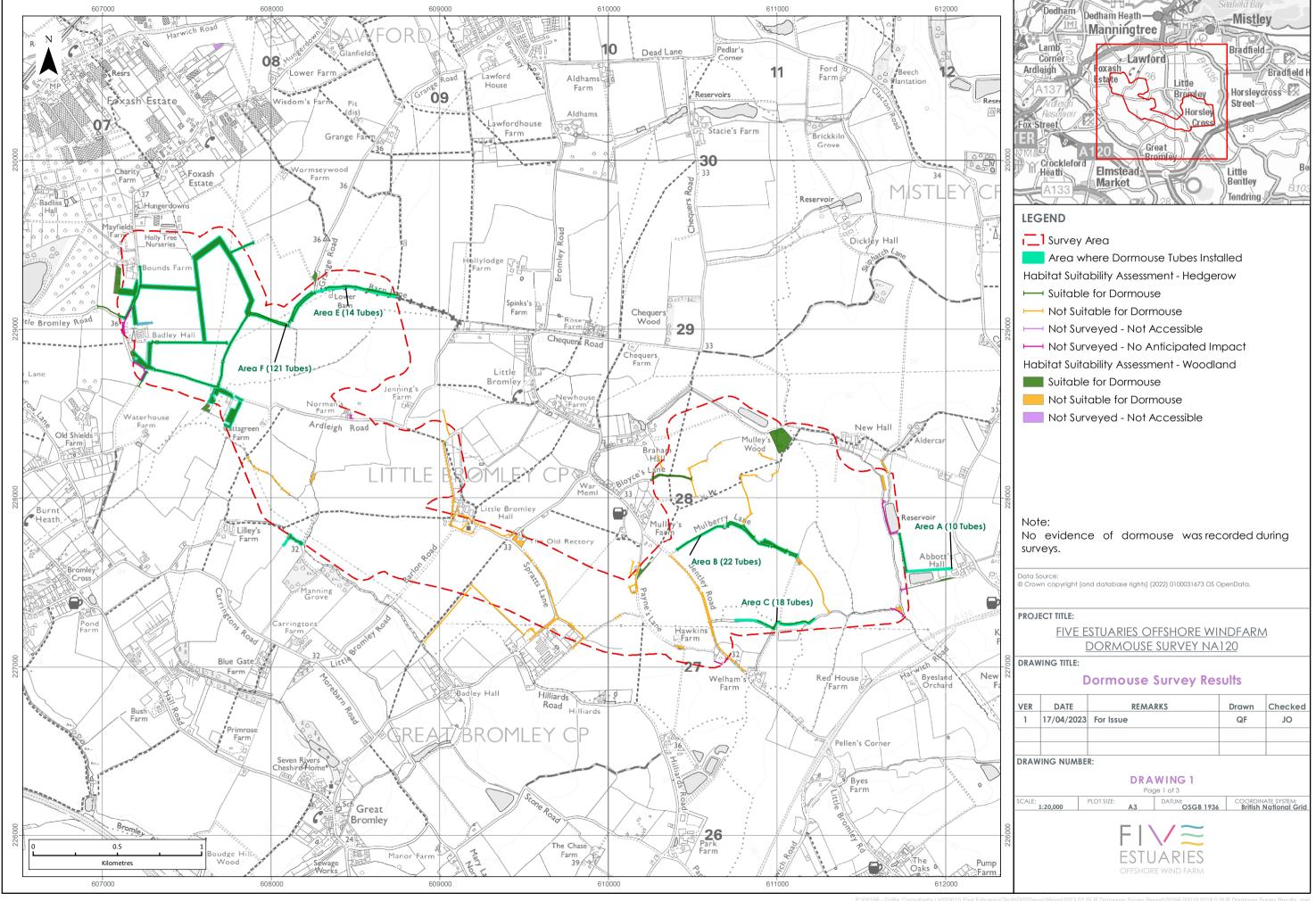


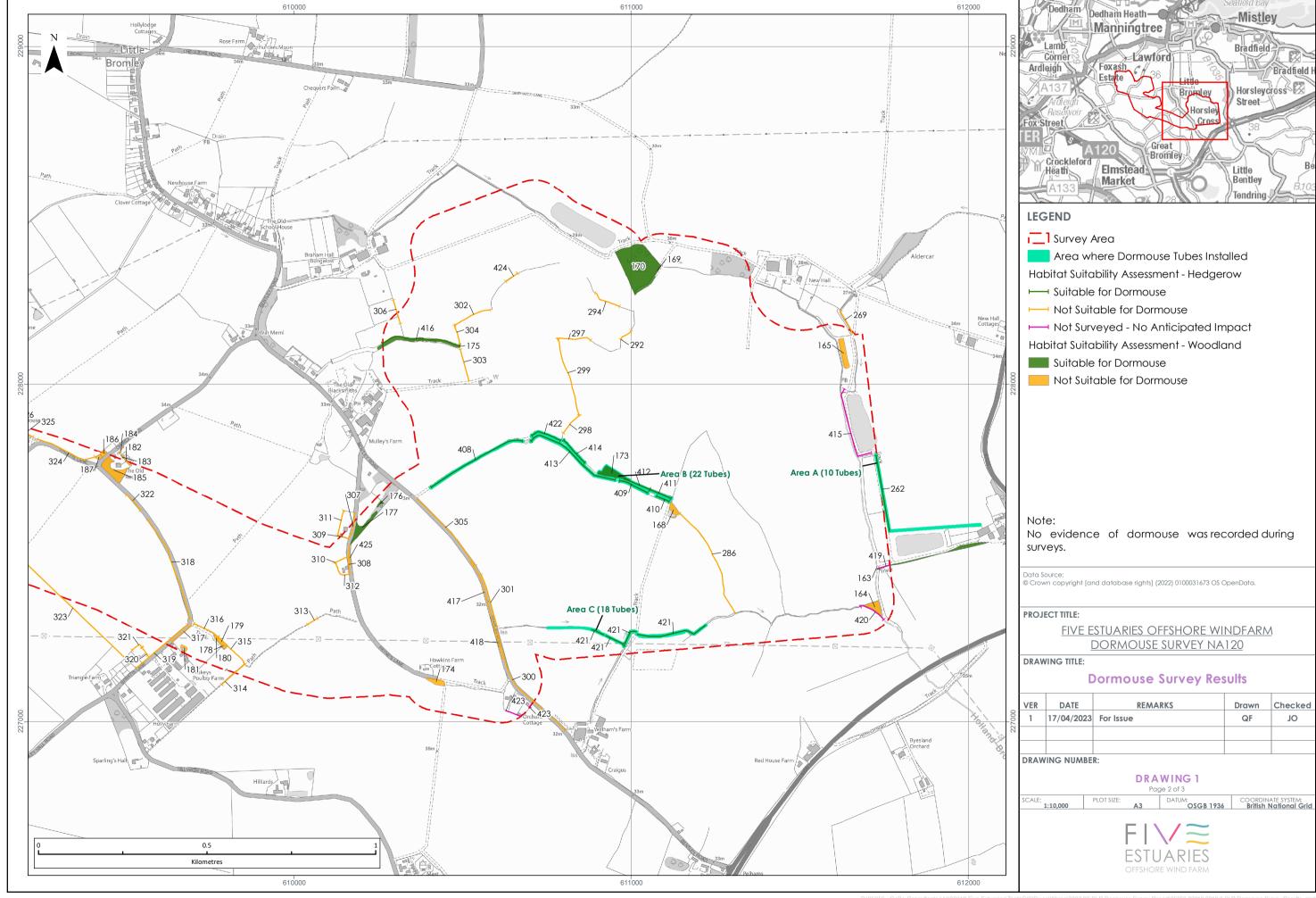
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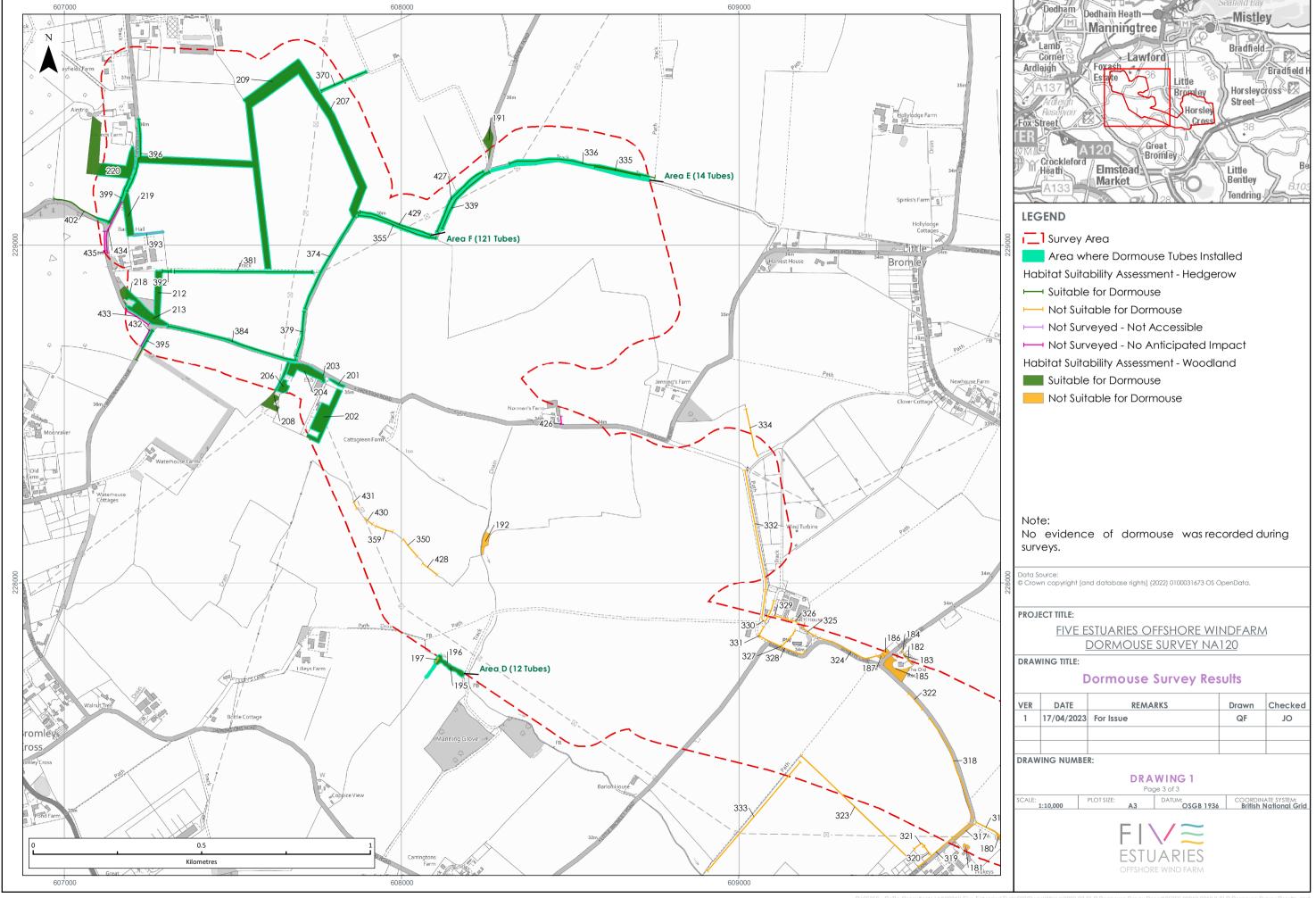
DRAWING 1

Dormouse Survey Results









APPENDIX A

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Habitat Based Assessment Raw Data



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H98	10/05/22	blackthorn, bramble, elder, hawthorn, oak, Prunus sp	no	Species poor or defunct hedge	
H1	09/05/22	blackthorn, hawthorn	yes	Thick wide hedge connected to woodland	
H100, 103, 104	10/05/22	blackthorn, bramble, conifers, oak	no	Species poor or defunct hedge	
H101	10/05/22	blackthorn, elder, elm sp, oak, Prunus sp, beech	no	Species poor or defunct hedge	
H102	10/05/22	ash, blackthorn, elder, hawthorn, oak	no	Isolated from other woodland or hedges	
H105	10/05/22	ash, bramble, hawthorn, oak	no	Species poor or defunct hedge	
H106	10/05/22	ash, bramble, elm sp, field maple, hawthorn, oak	no	Species poor or defunct hedge	Also adjacent to footpath
H107	10/05/22	bramble, elder, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H108, W51	10/05/22	blackthorn, bramble, elder, field maple, hawthorn, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland	Slightly isolated but intact
H109, 131	10/05/22	elder, oak, willow sp (not sallow)	no	Species poor or defunct hedge	
H11	09/05/22	ash, blackthorn, bramble, hawthorn, oak, field maple, dog rose	no	Species poor or defunct hedge	
H112	10/05/22	blackthorn, bramble, elder, field maple, hazel, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H113	10/05/22	blackthorn, bramble, dog rose, elder, hawthorn, oak, willow sp (not sallow)	no	Species poor or defunct hedge	
H114	10/05/22		no	Derelict coppice or clear fell	Ditch

Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H116, 132, W98	10/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, oak, willow sp (not sallow)	yes	Species rich shrub layer or rides, Wide range broadleaved species, Wide range of tree ages	Viewed from across water course
H117, 111	10/05/22	bramble, dog rose, elder, hawthorn, oak, willow sp (not sallow)	no	Species poor or defunct hedge	
H12	09/05/22	bramble, hawthorn, willow sp	no	Little or no shrub understorey, Species poor or defunct hedge	Defunct largely not present
H120	10/05/22	bramble, conifers, dog rose, field maple, hawthorn	no	Species poor or defunct hedge	
H122, 133	10/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, hazel, honeysuckle, oak, Prunus sp	yes	Species rich hedge, Thick wide hedge connected to woodland	Is isolated at both ends
H123, 145	10/05/22	blackthorn, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H124, 144, 136	10/05/22	bramble, dog rose, elder, elm sp, hawthorn, Prunus sp	yes	Wide range broadleaved species	
H126	10/05/22	conifers, hawthorn, oak	no	Species poor or defunct hedge	Viewed from footpath
H127	10/05/22	conifers	no	Species poor or defunct hedge	Cherry laurel
H128, 125	10/05/22	blackthorn, bramble, hawthorn, oak	yes	Thick wide hedge connected to woodland	
H129	10/05/22	ash, bramble, elder, elm sp, field maple, sycamore, willow sp (not sallow)	no	Species poor or defunct hedge	Viewed from footpath
H13	09/05/22	blackthorn, hawthorn, oak, willow	no	Isolated from other woodland or hedges	
H137	10/05/22	hawthorn, oak	no	Species poor or defunct hedge	Viewed from footpath



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H14	09/05/22	blackthorn, bramble, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	Adjacent to road
H141, 143, 140	10/05/22	conifers, elder, hawthorn, oak	no	Isolated from other woodland or hedges	
H142, 138	10/05/22	hawthorn, oak, willow sp (not sallow)	no	Isolated from other woodland or hedges	
H147, 148	10/05/22	blackthorn, bramble, dog rose, elder, elm sp, hawthorn, oak	no	Isolated from other woodland or hedges	
H149, W65, 86, 84, 79, 83, 90, 89, 91, 94	10/05/22	ash, bramble, elder, elm sp, hawthorn, oak, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	
H15, W7	09/05/22	blackthorn, bramble, hawthorn, honeysuckle, oak, sweet chestnut, sycamore, elm, horse chestnut	yes	Species rich shrub layer or rides, Thick wide hedge connected to woodland, Wide range broadleaved species	
H150, 152	10/05/22	hawthorn	no	Little or no shrub understorey, Species poor or defunct hedge	
H154	10/05/22	ash, blackthorn, bramble, dog rose, elder, hawthorn, oak, holly	yes	Wide range broadleaved species, Wide range of tree ages	
H155	10/05/22	blackthorn, bramble, hawthorn, oak, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	
H156	10/05/22	blackthorn, hawthorn, oak	yes	Wide range of tree ages	Thinner in centre/southwest no shrubs



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H157, 158, 153, 151	10/05/22	hawthorn	no	Species poor or defunct hedge	Recently planted
H159	10/05/22	conifers	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H160	10/05/22	blackthorn, bramble, dog rose, field maple, hawthorn, oak	yes	Wide range broadleaved species	
H161	10/05/22	ash, hawthorn, oak	no	Species poor or defunct hedge	
H163	10/05/22	hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H164	10/05/22	elder, hawthorn, oak, willow sp (not sallow)	no	Species poor or defunct hedge	
H166, 162	10/05/22	blackthorn, hawthorn, oak	yes	Wide range of tree ages	
H167	10/05/22	ash, hawthorn, oak	no	Little or no shrub understorey, Species poor or defunct hedge	Treeline
H168	10/05/22	blackthorn, elder, hawthorn, oak	yes	Wide range broadleaved species, Wide range of tree ages	
H169	10/05/22	elder, field maple, hawthorn, oak, willow sp (not sallow)	no	Species poor or defunct hedge	Also along footpath
H17	09/05/22	blackthorn, hawthorn, elm, Prunus sp	no	Isolated from other woodland or hedges, Species poor or defunct hedge	Adjacent to road and crop field not connected on either end
H170, 165	10/05/22	blackthorn, dog rose, hawthorn, sycamore	yes	Thick wide hedge connected to woodland	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H175, W95, 96	10/05/22	ash, blackthorn, bramble, elder, hawthorn, oak, willow sp (not sallow)	yes	Species rich hedge, Wide range broadleaved species, Wide range of tree ages	Western section of hedgerow
H178, 174, 176, W97	10/05/22	ash, birch, bramble, conifers, dog rose, elder, elm sp, field maple, hawthorn, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland, Wide range of tree ages	Viewed from road
H179	10/05/22	bramble, hawthorn, hazel, oak, willow sp (not sallow), gorse, beech	yes	Species rich hedge, Thick wide hedge connected to woodland, Wide range broadleaved species, Wide range of tree ages	
H180	11/05/22	ash, elder, hawthorn, oak	no	Little or no shrub understorey, Species poor or defunct hedge	Viewed from footpath
H183	11/05/22	horse chestnut, oak	no	Species poor or defunct hedge	Viewed from footpath
H184	11/05/22	oak	no	Little or no shrub understorey, Presence of cattle, sheep or pigs, Species poor or defunct hedge	
H185	11/05/22	elder, hawthorn, hazel, oak	no	Species poor or defunct hedge	
H186	11/05/22	ash, blackthorn, bramble, elder, elm sp, hawthorn, horse chestnut, oak	no	Species poor or defunct hedge	Suitable but gaps at both ends
H187	11/05/22	elm sp, hawthorn, hazel, oak	no	Species poor or defunct hedge	
H188, 190, 193, 198, 203, 201, 207	11/05/22	elm sp, hawthorn, hazel, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	Suitable areas but very isolated

Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H189, W115	11/05/22	blackthorn, bramble, elder, hawthorn, oak	no	Isolated from other woodland or hedges	
H19	10/05/22	ash, blackthorn, bramble, hawthorn, oak, yew, willow, lilac, dogwood	no	Isolated from other woodland or hedges	
H204, 206	11/05/22	conifers	no	Species poor or defunct hedge	
H206	11/05/22	bramble, dog rose, elder, hawthorn, oak	yes	Wide range broadleaved species	
H21, 20, 18, 27, 29, W18	10/05/22	blackthorn, hawthorn, oak, elder, poplar, field maple	no	Species poor or defunct hedge	
H210	11/05/22	ash, blackthorn, elder, hawthorn, oak	no	Species poor or defunct hedge	
H211, W124, 127, 126	11/05/22	blackthorn, field maple, hawthorn, hazel, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland, Wide range of tree ages	
H212, W132, 133, 138, 136, 135, 134, 130, 131, 139, 137, 128, 125	11/05/22	ash, blackthorn, bramble, elder, field maple, hawthorn, hazel, hornbeam, horse chestnut, oak, sycamore, willow sp (not sallow), alder, beech	yes	Large wood, Species rich hedge, Thick wide hedge connected to woodland, Wide range broadleaved species	
H213, 215, 218, 217,	11/05/22	ash, blackthorn, bramble, dog rose, elder, field maple, hawthorn, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland	H216 defunct in places



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
222, 216, 220					
H214, 219, 227, 233	11/05/22	blackthorn, bramble, dog rose, hawthorn, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species, Wide range of tree ages	
H22	10/05/22	bramble, hawthorn, oak, willow	no	Species poor or defunct hedge	
H221, 223, 231, 225, 226	11/05/22	ash, blackthorn, bramble, elder, hawthorn, hazel, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland	
H224	11/05/22	ash, hawthorn, oak	no	Species poor or defunct hedge	
H228	11/05/22	bramble, oak	no	Species poor or defunct hedge	
H230, 235, 232	11/05/22	blackthorn, bramble, hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H238	11/05/22	blackthorn, bramble, elder, field maple, hawthorn, oak	no	Isolated from other woodland or hedges	
H239, 236, 237, 240	11/05/22	elder, hawthorn, sallow	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H243, 242	11/05/22	elder, hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H245	11/05/22	blackthorn, bramble, elder, field maple, hawthorn, oak	no	Isolated from other woodland or hedges	
H247, 251	12/05/22	blackthorn, bramble, elder, field maple, hawthorn, hazel, oak, sallow, willow sp (not sallow)	yes	Wide range broadleaved species	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H250, 246, 241	11/05/22	ash, blackthorn, elder, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H252	11/05/22	blackthorn, bramble, elder, field maple, hawthorn, hazel, oak	no	Species poor or defunct hedge	
H253, 249	11/05/22	ash, blackthorn, bramble, elder, hawthorn, oak	yes	Wide range broadleaved species	
H256, 255, 265	11/05/22	blackthorn, bramble, elder, hawthorn, oak, dog rose	yes	Wide range broadleaved species	Only the east section of H265 is present
H257, 258, 259, 261, 263, 267	11/05/22	blackthorn, bramble, elder, field maple, hawthorn, hazel, oak, sallow, willow sp (not sallow)	yes	Species rich hedge, Wide range broadleaved species	
H260, 267	11/05/22	blackthorn, bramble, dog rose, elder, field maple, hawthorn, hazel, oak	yes	Wide range broadleaved species, Wide range of tree ages	
H262	11/05/22	blackthorn, bramble, dog rose, hawthorn, hazel, oak, sycamore	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
H270	12/05/22	blackthorn, bramble, elder, field maple, hawthorn, oak	yes	Wide range broadleaved species	
H271 268, 268, 266, 254	11/05/22	blackthorn, dog rose, elder, hawthorn, oak, willow sp (not sallow)	no	Species poor or defunct hedge	
H272	11/05/22	oak	no	Derelict coppice or clear fell	
H273	11/05/22	elder, field maple, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H274	11/05/22	elder, hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H275	11/05/22	dog rose, hawthorn, hazel, oak	no	Species poor or defunct hedge	
H281	11/05/22	blackthorn, elder, hawthorn	no	Species poor or defunct hedge	
H283, 280, 277, 279	11/05/22	ash, blackthorn, bramble, elm sp, field maple, hawthorn, oak	yes	Wide range broadleaved species	
H284	12/05/22	ash, blackthorn, bramble, elder, elm sp, field maple, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H284, 282, 278, 276	11/05/22	ash, blackthorn, hawthorn	no	Species poor or defunct hedge	Viewed from adjacent
H285	11/05/22	blackthorn, bramble, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H286	11/05/22	oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H287	11/05/22	hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H288	11/05/22	blackthorn, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H289, W166	11/05/22	ash, blackthorn, elder, elm sp, hawthorn, oak	yes	Wide range broadleaved species	Could not view W167 but from over hedge it has a range of tree species and therefore considered suitable



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H29	10/05/22	hawthorn	no	Species poor or defunct hedge	
H290, 291, 292	11/05/22	blackthorn, bramble, dog rose, elder, field maple, hawthorn, hazel, oak, sallow	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H293, 292	11/05/22	ash, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H294	12/05/22	ash, blackthorn, elder, hawthorn, oak	no	Species poor or defunct hedge	Viewed from footpath
H294, 295	11/05/22	ash, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H297, 299, 298	11/05/22	ash, blackthorn, bramble, elder, hawthorn, hazel, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H30, 34	10/05/22	ash, blackthorn, bramble, hawthorn, oak, prunus sp, field maple	no	Little or no shrub understorey, Species poor or defunct hedge	
H300, 301, 305	11/05/22	N/A	no	Derelict coppice or clear fell, Isolated from other woodland or hedges, Little or no shrub understorey, Species poor or defunct hedge	
H303	11/05/22	N/A	no	Derelict coppice or clear fell	Ditch
H304, 302	11/05/22	blackthorn, bramble, field maple, hawthorn, hazel, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	Gorse
Н306	11/05/22	ash, elder, hawthorn, oak, sallow	no	Isolated from other woodland or hedges, Species poor or defunct hedge	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H308, 312, 310	11/05/22	birch, blackthorn, bramble, field maple, hawthorn, hazel, horse chestnut, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H311, 309, 307	11/05/22	hawthorn, oak	no	Species poor or defunct hedge	
H313	11/05/22	ash, elder, hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H316, 314, W180, 178, 179	12/05/22	ash, blackthorn, bramble, elder, hawthorn, oak	no	Isolated from other woodland or hedges, Small wood, Species poor or defunct hedge	
H32	10/05/22	hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H320, 321	12/05/22	conifers	no	Species poor or defunct hedge	
H322, 318, 317, 319	12/05/22	ash, blackthorn, bramble, dog rose, hawthorn, oak, willow sp (not sallow)	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H323, 333	12/05/22	blackthorn, hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
Н324, 325	12/05/22	ash, bramble, elder, hawthorn, oak	no	Derelict coppice or clear fell, Isolated from other woodland or hedges, Species poor or defunct hedge	
Н328, 327	12/05/22	ash, elder, oak, sycamore, yew	no	Isolated from other woodland or hedges, Little or no shrub understorey, Species poor or defunct hedge	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H33	10/05/22	hawthorn	no	Little or no shrub understorey, Species poor or defunct hedge	
H330, W189	12/05/22	blackthorn, bramble, elder, hawthorn, oak	no	Isolated from other woodland or hedges, Small wood	
H331, 329, 326	12/05/22	N/A	no	Derelict coppice or clear fell	Wall
H332	12/05/22	blackthorn, bramble, elder, hawthorn	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H334	12/05/22	blackthorn, hawthorn, oak	no	Derelict coppice or clear fell, Species poor or defunct hedge	
Н336, 335	12/05/22	blackthorn, bramble, elder, elm sp, field maple, hawthorn, oak, sallow	yes	Species rich shrub layer or rides, Wide range broadleaved species	Along a footpath
H337	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, hazel, honeysuckle, oak	yes	Wide range broadleaved species, Wide range of tree ages	
H343, 340, 342	12/05/22	bramble, elder, hawthorn, hazel, oak	no	Isolated from other woodland or hedges, Little or no shrub understorey, Species poor or defunct hedge	
H345, 348	12/05/22	bramble, elder, hawthorn	yes	Wide range broadleaved species	
H346	12/05/22	blackthorn, bramble, elder, elm sp, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H349	12/05/22	ash, hawthorn, oak	no	Isolated from other woodland or hedges, Little or no shrub understorey	Planted trees

Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H35	10/05/22	bramble, hawthorn	no	Species poor or defunct hedge	
H352, 354	12/05/22	bramble, elder, hawthorn, hazel, sallow	yes	Wide range broadleaved species	
H353, 351, 347	12/05/22	ash, blackthorn, elder, elm sp, hawthorn, oak	no	Species poor or defunct hedge	
Н355, 339	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, hawthorn, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	H355 - North of roadside better and H339 west side of road better. Side of the road depicted on plan consists of defunct hedgerow/treelines
H356	12/05/22	ash, hawthorn, oak	no	Little or no shrub understorey, Species poor or defunct hedge	Planted trees
H357, 360, 363, 364, 368	12/05/22	conifers	no	Species poor or defunct hedge	
H358, 366, 369	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, hawthorn, hazel, oak	no	Isolated from other woodland or hedges	
Н359, 350	12/05/22	ash, blackthorn, bramble, elder, hawthorn, oak	no	Species poor or defunct hedge	
H36, 38, 40, 50	10/05/22	hawthorn, oak, elder, elm	yes	Thick wide hedge connected to woodland	
H362	12/05/22	blackthorn, hawthorn, poplar	no	Little or no shrub understorey, Species poor or defunct hedge	
H365, 361	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, hawthorn, hazel, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H367	12/05/22	blackthorn, bramble, hawthorn, oak, poplar	yes	Thick wide hedge connected to woodland	
H370	12/05/22	bramble, dog rose, elder, hawthorn, oak, sallow	yes	Thick wide hedge connected to woodland	
H372, 371, 373, 375	12/05/22	bramble, hawthorn, oak	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
H376	12/05/22	conifers	no	Species poor or defunct hedge	Garden hedge
H377	12/05/22	blackthorn, bramble, elder, hawthorn, hazel	yes	Wide range broadleaved species	
H379, 374	12/05/22	ash, blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
H380, 385 383, W210	12/05/22	blackthorn, bramble, dog rose, elder, field maple, hawthorn, hazel, oak, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	Defunct in places
H382	12/05/22	ash, blackthorn, bramble, elder, elm sp, field maple, hawthorn, hazel, oak, sycamore	no	Species poor or defunct hedge	
H389	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn	no	Species poor or defunct hedge	
H392, 381	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, oak, sallow	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
H395	12/05/22	ash, blackthorn, dog rose, elder, elm sp, field maple, hawthorn, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	Located on the west of the road
H397, 391, 387, 386	12/05/22	blackthorn, bramble, dog rose, elder, hawthorn, hornbeam, oak, sycamore, willow sp (not sallow)	yes	Wide range broadleaved species	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H4, 16, W2, 5	09/05/22	ash, blackthorn, bramble, hawthorn, honeysuckle, hornbeam, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
H401, 398	12/05/22	ash, blackthorn, bramble, dog rose, elder, elm sp, hawthorn, oak, sallow	yes	Wide range broadleaved species	
H402, 399, 396, W220, 219	12/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, hazel, oak, sycamore	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
H41	10/05/22	elm sp, hawthorn, oak, poplar	no	Species poor or defunct hedge	
H42, 43	10/05/22	hawthorn	no	Species poor or defunct hedge	
H46, 47	10/05/22	elder, elm sp, oak, willow sp (not sallow), Prunus sp	no	Isolated from other woodland or hedges	
H48, 45, 44	10/05/22	blackthorn, bramble, hawthorn	no	Species poor or defunct hedge	
H51	10/05/22	bramble, dog rose, dogwood, elder, hawthorn, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland, Wide range of tree ages	
H52, 53	10/05/22	bramble, dog rose, hawthorn	no	Species poor or defunct hedge	
H54	10/05/22	blackthorn, bramble, hawthorn, oak, elm	no	Little or no shrub understorey, Species poor or defunct hedge	
H55	10/05/22	bramble, hawthorn, oak	no	Species poor or defunct hedge	
H56, 57	10/05/22	blackthorn, bramble, elder, hawthorn, oak	no	Isolated from other woodland or hedges	
H58	10/05/22	bramble, hawthorn, dog rose	no	Species poor or defunct hedge	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H59	10/05/22	blackthorn, bramble, elder, field maple, hawthorn, oak	yes	Wide range broadleaved species, wide range of tree ages	
H60, 61, 65, 66	10/05/22	ash, blackthorn, bramble, elder, hawthorn, oak	yes	Thick wide hedge connected to woodland	
H62	10/05/22	elder, field maple, hawthorn, prunus sp	no	Species poor or defunct hedge	
H67	10/05/22	blackthorn, elder, field maple, hawthorn, oak	no	Species poor or defunct hedge	
H69, 73	10/05/22	blackthorn, bramble, elder, elm sp, field maple, hawthorn, oak, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	
H78, 77, 76, 75, 64, 65	10/05/22	blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, oak	yes	Species rich hedge, Wide range of tree ages	
H8, 2, 3, 6, 5, W4,	09/05/22	blackthorn, bramble, hawthorn, oak	yes	Thick wide hedge connected to woodland, Wide range of tree ages	
H84, 85	10/05/22	blackthorn, elm sp, field maple, hawthorn, oak	no	Species poor or defunct hedge	
H86	10/05/22	blackthorn, dog rose, elder, hawthorn, oak	no	Species poor or defunct hedge	
H87, 83, 79, 80	10/05/22	ash, blackthorn, bramble, hawthorn	no	Little or no shrub understorey, Species poor or defunct hedge	
H9, 10, 7	09/05/22	blackthorn, bramble, hawthorn, oak	no	Little or no shrub understorey, Species poor or defunct hedge	
H90	10/05/22	blackthorn, elder, field maple, hawthorn, oak	no	Isolated from other woodland or hedges	
H91	10/05/22	conifers, elder, hawthorn	no	Species poor or defunct hedge	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
H96	10/05/22	bramble, oak	no	Species poor or defunct hedge	
Н97	10/05/22	blackthorn, elm sp, field maple, hawthorn, hazel, prunus sp	yes	Wide range broadleaved species	
W1	09/05/22	ash, blackthorn, bramble, hawthorn, honeysuckle, oak, willow	yes	Large wood, Wide range broadleaved species	
W104, 103, 101, 100, 102, 99	11/05/22	bramble, elder, field maple, hawthorn, hazel, honeysuckle, oak, willow sp (not sallow)	yes	Large wood, Wide range broadleaved species, Wide range of tree ages	
W110, 108, 107, 105, 114	11/05/22	ash, blackthorn, bramble, elder, hawthorn, hazel, oak, sycamore, holly	yes	Wide range broadleaved species, Wide range of tree ages	
W118, 117, 116, H195	11/05/22	blackthorn, bramble, elder, field maple, hawthorn, oak, sycamore, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	
W12, 16, 17, 13, 15	09/05/22	blackthorn, bramble, hawthorn, oak, holly	yes	Thick wide hedge connected to woodland, Wide range broadleaved species, Wide range of tree ages	
W120, H206	11/05/22	ash, conifers, elder, hawthorn, hazel, hornbeam, horse chestnut, oak, yew	yes	Wide range broadleaved species	Many more trees shrubs and garden plants, walnut, lilac etc
W123, 122, 121	11/05/22	ash, birch, bramble, elm sp, hawthorn, oak, sycamore, willow sp (not sallow), yew	yes	Wide range broadleaved species	
W128	10/05/22	conifers, sycamore	no	Isolated from other woodland or hedges	

Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
W129	11/05/22	hawthorn, oak	no	Little or no shrub understorey, Species poor or defunct hedge	
W142, 140, 141, H229	11/05/22	ash, blackthorn, bramble, elder, hawthorn, hazel, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland, Wide range broadleaved species, Wide range of tree ages	
W149, 150, 153, 145, 144, 146, 147, 148, 151, 152, 155, 156	11/05/22	ash, blackthorn, bramble, dog rose, elder, field maple, hawthorn, hazel, oak, willow sp (not sallow)	yes	Thick wide hedge connected to woodland, Wide range broadleaved species, Wide range of tree ages	
W157	11/05/22	N/A	no	Little or no shrub understorey	Planted trees, minimal canopy overlap, possible white beam
W158, 159, 160, H244	11/05/22	bramble, elder, field maple, hawthorn, oak, willow sp (not sallow)	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
W161, 162, H248	11/05/22	blackthorn, elder, hawthorn, hazel, oak, sallow	no	Isolated from other woodland or hedges	
W163	11/05/22	blackthorn, bramble, elder, hawthorn, oak	yes	Wide range broadleaved species	Hedgerow, not woodland
W164	11/05/22	blackthorn, bramble, elder, hawthorn, oak	no	Isolated from other woodland or hedges	
W165, H129	11/05/22		no	Derelict coppice or clear fell	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
W168	11/05/22	blackthorn, bramble, elder, hawthorn, oak, willow sp (not sallow)	no	Isolated from other woodland or hedges, Species poor or defunct hedge	
W170, 171, 172	11/05/22	ash, blackthorn, bramble, elder, field maple, hawthorn, oak, sycamore, willow sp (not sallow)	yes	Large wood, Wide range broadleaved species	
W173	11/05/22	blackthorn, bramble, elder, field maple, hawthorn, hazel, oak	yes	Wide range broadleaved species, Wide range of tree ages	
W174	11/05/22		no	Derelict coppice or clear fell	
W175	11/05/22	ash, blackthorn, bramble, elder, field maple, hawthorn, hazel, honeysuckle, oak, sallow	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
W177	11/05/22	bramble, dog rose, elder, field maple, hawthorn, hazel, oak	yes	Wide range broadleaved species	
W185	12/05/22	blackthorn, bramble, conifers, hawthorn, oak	no	Isolated from other woodland or hedges	Garden planting
W186 , 187	12/05/22	ash, conifers, hawthorn, horse chestnut, oak	no	Isolated from other woodland or hedges, Little or no shrub understorey	
W189	12/05/22	ash, blackthorn, bramble, elder, hawthorn, oak, gorse	no	Isolated from other woodland or hedges	
W19, 20	10/05/22	ash, blackthorn, bramble, hawthorn, oak	no	Isolated from other woodland or hedges	
W190	12/05/22		no	Derelict coppice or clear fell	
W191, H338	12/05/22	ash, blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, hazel, honeysuckle, oak	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	
W192	12/05/22	bramble, hawthorn, hazel, oak	no	Isolated from other woodland or hedges, Small wood	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
W193, 194, 196, 195	12/05/22	blackthorn, bramble, dog rose, elder, hawthorn, hazel, honeysuckle, oak, willow sp (not sallow)	yes	Large wood, Species rich shrub layer or rides, Wide range broadleaved species, Wide range of tree ages	
W197 <i>,</i> H344	12/05/22	elder, hawthorn, oak	no	Isolated from other woodland or hedges	
W199	12/05/22	ash, hawthorn, oak	no	Isolated from other woodland or hedges, Little or no shrub understorey	Planted trees
W200	12/05/22		no	Derelict coppice or clear fell	
W203, 204, 206, 208, 201, 202	12/05/22	ash, blackthorn, elm sp, hawthorn, oak	yes	Wide range broadleaved species	Viewed from road
W207, 209	12/05/22	ash, birch, blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, horse chestnut, oak, poplar	yes	Large wood, Wide range broadleaved species	
W21, 25	10/05/22	ash, blackthorn, bramble, hawthorn, honeysuckle, oak, willow	yes	Thick wide hedge connected to woodland, Wide range of tree ages	
W211	12/05/22	ash, birch, bramble, dogwood, elm sp, field maple, hawthorn, hazel, horse chestnut, oak	yes	Wide range broadleaved species	
W218, 213, 212	12/05/22	ash, blackthorn, bramble, dog rose, elder, hawthorn, oak	yes	Wide range broadleaved species	
W3	09/05/22	blackthorn, bramble, hawthorn, willow, elder	no	Isolated from other woodland or hedges, Little or no shrub understorey, Seasonally waterlogged	



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
W37, 35, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24	10/05/22	ash, blackthorn, bramble, hawthorn, honeysuckle, oak	yes	Species rich hedge, Thick wide hedge connected to woodland	Track in centre
W38	10/05/22	horse chestnut	no	Species poor or defunct hedge	
W39	10/05/22	willow sp (not sallow)	no	Derelict coppice or clear fell	
W390, 388	12/05/22	blackthorn, bramble, elder, elm sp, field maple, hawthorn, oak, sallow	yes	Thick wide hedge connected to woodland, Wide range broadleaved species, Wide range of tree ages	Viewed from road
W40	10/05/22	Prunus sp	no	Isolated from other woodland or hedges	
W41	10/05/22	N/A	no	Derelict coppice or clear fell	
W45	10/05/22	Bramble, willow	no	Species poor or defunct hedge	
W49, 50	10/05/22	Conifers (cherry laurel)	no	Isolated from other woodland or hedges, Small wood	viewed from road
W52	10/05/22	ash, bramble, dog rose, elder, field maple, hawthorn, hazel, oak	no	Isolated from other woodland or hedges, Small wood	
W56, H115	10/05/22	bramble, dog rose, elder, elm sp, field maple, hawthorn, oak, willow sp (not sallow). Lime, prunus sp.	yes	Thick wide hedge connected to woodland, Wide range broadleaved species	Adjacent to to footpath
W57, 54	10/05/22	birch, bramble, dog rose, elder, elm sp, hawthorn, horse chestnut, oak, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	Appears to be garden rather than woodland. Viewed from adjacent land. Boundary hedgerows are suitable



Hedgerow / Wood Number(s)	Survey Date	Dormouse food plants present	Further survey needed yes/no	Justification for Y/N	Additional notes
W6	09/05/22	N/A	no	Species poor or defunct hedge	No longer exists, it is just a field surrounded by hedgerows
W60, 59	10/05/22	ash, hawthorn	no	Small wood, Species poor or defunct hedge	Viewed from footpath
W63	10/05/22	field maple, hawthorn, oak, willow sp (not sallow), alder	no	Isolated from other woodland or hedges	
W64, 68, 69, 70, 71- 78, 80, 81, 82, 85, 88, 87,	10/05/22	ash, blackthorn, bramble, dog rose, elder, elm sp, field maple, hawthorn, honeysuckle, oak, willow sp (not sallow)	yes	Wide range broadleaved species, Wide range of tree ages	Path through woodland
W66	10/05/22	blackthorn, elder, hawthorn, hazel, oak, yew, cherry	no	Small wood	It is a garden
W67	10/05/22		no	Derelict coppice or clear fell	
W8, 9, 10, 11, 14	09/05/22	blackthorn, bramble, hawthorn, oak, elm, elder, dog rose	yes	Species rich shrub layer or rides, Thick wide hedge connected to woodland	Adjacent to railway
W93, 92	10/05/22	ash, blackthorn, hawthorn, oak, willow sp (not sallow)	yes	Wide range broadleaved species	



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