

The logo for FIVE ESTUARIES OFFSHORE WIND FARM. The word "FIVE" is in a grey sans-serif font, with the "V" colored purple and pink. To the right of "FIVE" are three wavy lines representing water, colored blue, green, and yellow from top to bottom. Below "FIVE" is the word "ESTUARIES" in a larger grey sans-serif font, and below that is "OFFSHORE WIND FARM" in a smaller grey sans-serif font.

FIVE ESTUARIES

OFFSHORE WIND FARM

FIVE ESTUARIES OFFSHORE WIND FARM

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DORMOUSE SURVEY REPORT: SOUTH
OF A120

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ECOLOGY
RESOURCES

Hazel Dormouse Survey Report

**Five Estuaries
Offshore Wind
Farm Ltd**

November 2022



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EXECUTIVE SUMMARY

Ecology Resources Limited was commissioned by Royal HaskoningDHV on behalf of Five Estuaries Offshore Wind Farm Limited (VE OWFL), to undertake a hazel dormouse *Muscardinus avellanarius* habitat suitability assessment and, where suitable habitat is identified, complete a presence / likely absence survey within the Five Estuaries Offshore Wind Farm (VE) onshore project area plus a 100m buffer.

Twenty-two survey sites within the onshore project area (plus a 100m buffer) were identified as areas with suitable habitat to support hazel dormice. The full suite of seven dormouse survey visits were completed on 14 of these sites. Four sites were subject to six survey visits due to a delay in deploying survey equipment. One site had five survey visits and the remaining three sites had four visits, this was due to access restrictions at H136 and a revision of the onshore cable route in August 2022 which led to three survey sites being removed from the survey scope.

Hazel dormice were found to be present on 15 of the 22 survey sites.

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1. INTRODUCTION

Ecology Resources Limited was commissioned by Royal HaskoningDHV on behalf of Five Estuaries Offshore Wind Farm Limited (VE OWFL), to undertake a habitat suitability assessment and, where suitable habitat is identified, presence and absence survey for hazel dormouse *Muscardinus avellanarius* within the Five Estuaries Offshore Wind Farm (VE) onshore project area plus a 100m buffer.

1.1 Project Background

VE is a proposed extension to the operational Galloper Offshore Wind Farm (OWF) which consists of 56 wind turbine generators (WTGs). VE OWFL will comprise up to 79 WTGs situated within two array areas to the east of the operational Galloper OWF. The array areas will be located approximately 30km off the coast of Suffolk, England.

Cables will connect the turbines to the offshore substation platforms and then export the power generated to shore. It is expected that there will be a number of inter-array cables, up to four export cables and up to two offshore substations platforms.

A landfall area has been identified between Holland-on Sea and Frinton-on-Sea on the Essex coast. The landfall point is yet to be determined but will be located within this area of coastline. A new VE onshore substation will be needed and will be constructed in an area to the north of the A120.

The VE cables will be installed underground between the landfall and the grid connection point north of the A120. A preferred corridor has not yet been determined with several corridors still under consideration at the time of writing. Potential substation land parcels and associated corridor options north of the A120 also remain under review at the time of writing.

A more detailed description of the project, several elements of which have yet to be finalised at this time, will be provided in the PEIR and ES in due course.

1.2 Legislation

The hazel dormouse is a fully protected species under both United Kingdom and European law. This is a brief summary of the legislation and is not to be regarded as a definitive legal opinion. When dealing with individual cases, the client is advised to consult the full texts of the relevant legislation and obtain further legal advice.

The hazel dormouse is fully protected under Schedule 5 of the Wildlife and Countryside Act (WCA) 1981 (as amended). Legal protection is also afforded by the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019, making the dormouse a European Protected Species. These two pieces of legislation operate in parallel, making it an offence to:

- deliberately capture, injure or kill a hazel dormouse;
- possess or control any live or dead specimen or anything derived from a hazel dormouse;

- deliberately disturb a hazel dormouse (in particular, disturbance which is likely to impair their ability to survive, to breed or reproduce, or to rear or nurture their young, to hibernate or migrate or to affect significantly the local distribution or abundance of the species to which they belong);
- damage or destroy a breeding site or resting place of a hazel dormouse; and
- possess, transport, advertise, sell or exchange a hazel dormouse (dead or alive) or any part of a hazel dormouse.

1.3 Priority species

Hazel dormice are listed as species of principal importance for the conservation of biodiversity in England, in accordance with Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006. Under Section 40 of the NERC Act (2006) public bodies (including local planning authorities) have a duty to have regard for the conservation of species of principal importance when carrying out their functions, including determining planning applications.

2. METHODOLOGY

2.1 Habitat Suitability Assessment

An assessment of suitable habitat for hazel dormouse was made, based upon the previous Preliminary Ecological Appraisal report (SLR, 2022).

Habitats suitable for hazel dormice included woody habitats, including hedgerows and areas of species rich scrub and grassland that are connected to woodland areas which contain a high degree of species diversity within tree and shrub species.

A total of 19 areas of suitable habitat for dormice were recorded, primarily consisting of hazel-rich hedgerows connected to nearby woodland. Dormouse surveys were then undertaken on the 19 identified areas with suitable habitat. The location of these features are shown in Appendix A, Figures 1.1 to 1.3.

2.2 Presence / likely absence surveys

Survey Design

A dormouse nest-tube monitoring survey of all suitable hedgerows that may be impacted by construction works was undertaken in accordance with the current good practice guidelines set out in the Dormouse Conservation Handbook (Bright *et al.*, 2006). Sites outside the survey scope or not likely to be impacted by construction works were not subject to surveys.

Dormouse nest-tubes were installed approximately 15-20m apart within each suitable habitat area. The number of tubes installed at each survey site was determined by site geography (e.g length of hedgerow and hedgerow connections) and professional judgement. Nest tubes were numbered and attached to the underside of branches using cable ties or wire. The opening of the tube pointed downwards, and at an angle no greater than 45 degrees.

For any identified suitable woodlands which may be impacted or have connectivity to potentially impacted hedgerows, dormouse nest box surveys were undertaken. Nest boxes were used within

woodland as dormice more readily make nests within boxes than tubes, thereby increasing detectability (Chanin & Gubert, 2011). Nest boxes are not able to be used in hedgerows as they require a stable tree to attach to in a grid pattern. Nest boxes were attached with wire to suitable trees in a grid pattern approximately 20 metres apart (Bright *et al.*, 2006).

The GPS location of every nest tube and next box was recorded using Fulcrum digital mapping software, and notes and photographs were recorded to assist future surveyors to find the tubes.

The nest-tubes and boxes were checked once a month between May and November, following the 'Index of probability of finding dormice present in nest tubes' (Chanin & Woods, 2003) (see Table 3.1). The scoring system provides an overall index of effort by multiplying the sum of the months the tubes were checked by the number of tubes used. Likely absence should not be assumed on an overall score less than 20.

Table 1. Index of probability of finding dormice present in nest tubes in a single month (Bright *et al.*, 2006). Note this is based on a minimum of 50 nest tubes. A minimum score of 20 points must be achieved to reliably conclude likely absence of dormice.

Month	Index of probability (based on 50 nest tubes)
April	1
May	4
June	2
July	2
August	5
September	7
October	2
November	2

Field Survey

Each nest tube and box were carefully inspected, on inspection if evidence of activity of any small mammal (e.g., movement, nests, droppings) was found, the tube or box was taken down and opened within a large plastic bag (Bright *et al.*, 2006). This method allowed the surveyor to closely examine the contents of the box or tube and prevented any animals from escaping and the safe return of any animals to the tube or box before replacing.

Any dormice encountered were weighed and sexed with the age, class and breeding condition of each animal recorded. Any other small mammals such as wood mice *Apodemus sylvaticus*, shrew *Sorex sp.*, or field vole *Microtus agrestis* nests or individuals encountered were removed from the tubes, unless a litter was present. Bird nests were not disturbed until chicks had fledged, at which point the nest was removed.

Table 2. Dormouse survey site set up details.

Site ID	No. tubes / boxes	Date of deployment
99041	6	27.04.22
99410	35	03.05.22
99503	25	25.05.22
99509	50	13.05.22
99525	50	19.04.22
99075	26	27.04.22
99079	12	27.04.22
99085	12	27.04.22
99089	28	27.04.22
99136	15	28.04.22
99149	15	10.05.22
99154	20	28.04.22
99155	18	15.06.22
99156	10	15.06.22
99221	18	28.04.22
2047	15	24.05.22
2174	15	23.05.22
2196	9	25.05.22
2204	30	23.05.22
2250	10	25.05.22
2278	35	24.05.22
2345	10	25.05.22

2.3 Survey Personnel

All dormouse surveys were led by Kate Mann, (Natural England Level 1 dormouse survey licence number 2020-49128-CLS-CLS) an ecologist with over eight years' experience conducting dormouse surveys. In addition, assistant surveyors were all suitably experienced ecologists actively enrolled onto dormouse training courses and/or groups and have a professional interest in dormice. All surveyors were either members of CIEEM, or followed the Code of Professional Conduct (CIEEM, 2022).

The surveys were carried out during the recommended survey season for dormice (Bright *et al*, 2006). They were undertaken between April and November (inclusive) in 2022.

2.4 Revised Onshore Cable Route August 2022

Throughout the life cycle of the project the cabling route has undergone several revisions and in August 2022, the onshore cable route was finalised, which led to the exclusion of dormouse survey sites 2047, 2250 and 2345, which were subsequently removed from scope.

However these sites had four, three and three surveys respectively. Dormouse survey tubes were collected from 2250 on 19th August, from 2345 on 31st August and from 2047 on 20th November 2022.

A small woven nest was recorded at survey site 2047 on 15th August 2022 and therefore this site was considered to have confirmed presence of hazel dormouse.

Survey sites 2250 and 2345 were removed from the scope of surveys before reaching the target of 20 points for surveys and therefore it cannot be concluded that dormice are likely absent from these sites.

2.5 Survey Limitations

Where possible the nest tubes and boxes were left in situ from April - November (inclusive), however survey sites 99155 and 99156 were identified at a later date and surveys were not formally instructed until May 2022. As such, these sites were subject to surveys between June – November (inclusive).

All sites were surveyed and accessed without limitations apart from two sites where access was the main limitation. Hedgerow 99136 had repeated landowner access refusal until August 2022, this meant it did not align with the other survey areas. Due to this, the target survey point score of 20 was not reached, however dormice were confirmed as present on site and therefore access constraints are not considered to have impacted the results.

Survey site 2278 was spread over two land parcels with separate landowners, and access to one half of the site was refused in August, September and October 2022. This resulted in half of the site being subject to survey during these months, and the half of site with refused access remaining not surveyed until equipment collection in November. The target survey point score of 20 was reached and dormice were present on site (both halves recorded dormouse presence), therefore this access constraint is not considered to have impacted the results.

Surveys can only be used to determine likely absence of dormice from any given area. This is due to their elusive nature and natural population fluctuations, allowing colonisations of areas following the completion of surveys. An absence of dormice, or their field signs, found during a survey does not confirm with absolute certainty the absence of dormice.

For example, in suitable habitat where a lack of artificial nests are observed dormice may still be present. Dormice may be using natural nests, which are usually the size of a grapefruit and can be found low down in shrubs and bramble *Rubus fruticosus*, although these are more likely to be found in the Autumn months (Bright *et al*, 2006).

3. RESULTS

3.1 Habitat Suitability Assessment

The VE onshore project area plus a 100m buffer was assessed for their suitability to support dormice, this initial assessment was informed by the SLR Consulting Ltd. (2022) Five Estuaries Offshore Wind Farm Preliminary Ecological Appraisal, which was subsequently ground truthed in May 2022.

From this, 22 sites (four woodland stands and 18 hedgerows) were considered suitable for dormice and scoped in for further surveys. However, following the August 2022 revision of the proposed onshore cable route, three hedgerows were descope part-way through the suite of surveys. Habitat details of the 22 sites subject to dormouse presence / likely absence surveys are outlined below in Table 3. Full habitat assessments of all hedgerows and woodlands can be found in Appendix B.

Table 3. Dormouse habitat suitability assessment results for sites scoped in for further survey.

Site ID	OS Grid Reference	Date	Notes
99041	TM 20459 19619	23/06/2022	Dry ditch by a mixed species rich hedgerow that has zero gaps more than 5m wide. Food plants include field maple <i>Acer campestre</i> , bramble, elderberry <i>Sambucus nigra</i> , oak <i>Quercus robur</i> , ivy <i>Hedera helix</i> .
99410	TM 19937 20422	24/06/2022	Broadleaved semi-natural woodland approx. 1.5 ha in area with excellent connectivity. Food plants include blackthorn <i>Prunus spinosa</i> , bramble, oak, wild cherry <i>Prunus avium</i> , ash <i>Fraxinus excelsior</i> , alder <i>Alnus glutinosus</i> .
99503	TM 17800 23076	30/06/2022	Mixed semi-natural woodland approx. 0.7 ha in area and limited connectivity. Food plants include common hawthorn <i>Crataegus monogyna</i> , blackthorn, field maple, sycamore <i>Acer pseudoplatanus</i> , common honeysuckle <i>Lonicera periclymenum</i> , oak, bramble, dog-rose <i>Rosa canina</i> , elderberry, silver birch <i>Betula pendula</i> , field elm <i>Ulmus minor</i> , ash.
99509	TM 16014 23982	28/06/2022	Mixed semi-natural woodland approx. 3.5 ha in area and excellent connectivity. Food plants include oak, field maple, common honeysuckle, elderberry, blackthorn, bramble, common hazel <i>Corylus avellana</i> , Scots pine <i>Pinus sylvestris</i> , common holly <i>Ilex aquifolium</i> , common hawthorn, wild cherry, Chestnut <i>Castanea sp.</i>
99525	TM 15409 25034	12/06/2022	Mixed woodland plantation approx. 2 ha in area and excellent connectivity. Food plants include oak, ash, common hawthorn, elderberry, bramble, common

			hazel, blackthorn, sycamore, willow; <i>Salix</i> spp., alder, field maple.
99075	TM 20035 20004	24/06/2022	Species rich hedgerow with native trees. Zero gaps that are more than 5m wide. Food plants include oak, ash, bramble, common hawthorn.
99079	TM 20266 19690	23/06/2022	Defunct hedge with native trees. Zero gaps that are more than 5m wide. Food plants include bramble, oak, common hazel, elderberry.
99085	TM 20471 19750	23/06/2022	Species rich hedgerow approx. 3m high and 4m wide, with native trees. Zero gaps that are more than 5m wide. Food plants include oak, elderberry, bramble, common hawthorn.
99089	TM 20021 19977	24/06/2022	Species rich hedgerow with native trees. Zero gaps that are more than 5m wide. Food plants include bramble, oak, common hawthorn.
99136	TM 17287 23402	17/06/2022	Species rich hedgerow approx. 9m high and 5m wide, with native trees. Several gaps that are more than 5m wide. Some gaps contain bramble within tall ruderals. Excellent connectivity Food plants include blackthorn, common hazel, oak, ash, elm, bramble, dog-rose, common hawthorn, field maple, elderberry.
99149	TM 16577 23619	01/07/2022	Species poor hedgerow approx. 7m high and 10m wide, with native trees. Zero gaps that are more than 5m wide. Food plants include blackthorn, common hawthorn, common hazel, bramble, dog-rose, common dogwood <i>Cornus sanguinea</i> , field maple, <i>Prunus</i> spp., oak, common honeysuckle, common hornbeam <i>Carpinus betulus</i> , ash.
99154	TM 16184 23724	29/06/2022	Mixed species hedgerow approx. 3m high and 2m wide, with native trees. A couple gaps that are more than 5m wide and excellent connectivity. Food plants include common hawthorn, blackthorn, common hazel, oak, field maple, bramble.
99155	TM 16439 23935	28/06/2022	Mixed species hedgerow approx. 4m high and 3m wide, with native trees. One gap that is more than 5m wide and excellent connectivity. Food plants include elm, field maple, bramble, blackthorn, oak, <i>Rosa</i> sp., common honeysuckle, summer lilac <i>Buddleia Davidii</i> , common dogwood.

99156	TM 16283 23911	29/06/2022	Mixed species hedgerow approx. 3m high and 2m wide, with native trees. One gap that is more than 5m wide and excellent connectivity. Food plants include common hawthorn, blackthorn, common dogwood, bramble, common hazel, field maple.
99221	TM 16524 24157	28/06/2022	Species rich hedgerow approx. 8m high and 3m wide, with native trees. One gap that is more than 5m wide but connectivity is minor. Food plants include common honeysuckle, oak, English walnut <i>Juglans regia</i> , common hawthorn, blackthorn, common hazel, bramble, Rosa sp., field maple.
2047	TM 20517 19905	20/06/2022	Hedgerow 4m high and 5m wide. Food plants include blackthorn, common hazel, bramble, field maple, elm sp. <i>Ulmus spp.</i> , wild cherry.
2174	TM 19176 22724	18/06/2022	Species rich hedgerow approx. 5m high and 3m wide, with native trees. Food plants include oak, common hazel, blackthorn, field maple, bramble, ash, dog-rose.
2196	TM 17922 23037	18/06/2022	Species rich hedgerow approx. 5m high and 3m wide, with native trees. Good connectivity. Food plants include blackthorn, Prunus sp., bramble, common hazel, dog-rose, common honeysuckle.
2204	TM 19047 22902	18/06/2022	Species rich hedgerow approx. 5m high and 3m wide, with native trees. Food plants include dog-rose, common hazel, blackthorn, bramble, oak, elderberry.
2250	TM 19249 23389	18/06/2022	Hedgerow height 3m, width 4m. Food plants include blackthorn, blackthorn, dog-rose, elderberry, bramble.
2278	TM 17204 23416	18/06/2022	Species rich hedgerow approx. 5m high and 3m wide, with native trees. Excellent connectivity. Food plants include oak, hawthorn, bramble, blackthorn, field maple, common hazel, willow <i>Salix spp.</i>
2345	TM 14548 25784	13/06/2022	Young hedgerow, height 1m, width 1m. Food species include oak, bramble, dog-rose, common hazel, common hawthorn, field maple.

3.2 Field Survey

Results show that 15 of the 19 sites had confirmed evidence of hazel dormouse. These were survey sites: 99410, 99503, 99509, 99075, 99079, 99085, 99136, 99149, 99154, 99155, 99221, 2047, 2196, 2204 and 2278 (See Table 4 and Appendix A, Figures 2.1-2.8).

Survey sites 99041, 99525, 99089, 99156, 2174, 2250 and 2345 had no confirmed evidence of hazel dormouse. Dormouse surveys at survey sites 2047, 2250 and 2345 began in May 2022 but were stopped when these sites were descoped after the August 2022 revision of the project onshore cable route.

All the survey meta data can be found in Appendix C and the photos to support the surveys can be found in Appendix D.

Table 4. Dormouse Survey Results.

99041				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	27.04.22	N	N/A	N/A
1	11.05.22	N	N/A	N/A
2	17.06.22	N	N/A	N/A
3	25.07.22	N	N/A	N/A
4	15.08.22	N	N/A	N/A
5	26.09.22	N	N/A	N/A
6	28.10.22	N	N/A	N/A
7 + collection	30.11.22	N	N/A	Wood mouse nest.
99410				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	03.05.22	N	N/A	N/A
1	27.05.22	N	N/A	N/A
2	17.06.22	N	N/A	N/A
3	28.07.22	N	N/A	N/A
4	31.08.22	N	N/A	N/A
5	26.09.22	Y	1x adult, 4x juveniles, 5x nests.	Box 2: 1x male juvenile dormouse with grey fur, not weighed. In nest. Box 7: 1x adult dormouse escaped nest on approach. Box 10: Dormouse nest, no animal present. Box 12: Dormouse nest with no entrance – likely maternity nest so left alone to avoid disturbance. Box 14: 3x juveniles in nest, not weighed. Grey fur present.
6	28.10.22	Y	1x adult, 9x male adult, 4x female adult, 6x juveniles, 12x nests.	Box 2: 1x adult escaped on approach. 2x male adults inside nest, 28g and 24g. Box 5: 1x male adult 22.5g, 1x juvenile (not weighed) in nest. Box 7: 1x male adult 23.5g, 1x adult female (this year's mature young) 26g with tick on face. In nest. Box 10: Dormouse nest, no animal present. Box 12: 1x female adult, 21.5g, 3x juveniles average weight 10g, in nest.

				<p>Box 13: 3x male adult, 25.5g, 20g with white tip and 18g. Box 14: Dormouse nest with wood mouse in. Box 16: 1x female juvenile 20g, 1x male juvenile 14g. Box 19: Dormouse nest, no animal present. Box 21: 1x female adult in nest, 19g. Box 23: 1x female adult in nest, 22.5g. Box 34: 2x male adult in nest, 20g.</p>
7 + collection	30.11.22	Y	17x nests.	<p>Box 2: Dormouse nest, no animal present. Box 4: Dormouse nest, no animal present. Box 5: Dormouse nest, no animal present. Box 8: Dormouse nest, no animal present. Box 10: Dormouse nest, no animal present. Box 11: Dormouse nest, no animal present. Box 12: Dormouse nest, no animal present. Box 13: Dormouse nest, no animal present. Box 14: Dormouse nest, no animal present. Box 16: Dormouse nest, no animal present. Box 17: Dormouse nest, no animal present. Box 18: Dormouse nest, no animal present. Box 19: Dormouse nest, no animal present. Box 21: Dormouse nest, no animal present. Box 22: Dormouse nest, no animal present. Box 23: Dormouse nest, no animal present. Box 34: Dormouse nest, no animal present.</p>
99503				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	25.05.22	N	N/A	N/A
1	30.05.22	N	N/A	N/A
2	16.06.22	N	N/A	N/A
3	29.07.22	N	N/A	N/A
4	18.08.22	N	N/A	N/A
5	28.09.22	Y	1x juvenile.	Box 16: 1x juvenile in nest, not weighed.
6 + collection	28.11.22	Y	2x nests.	Box 16: Old dormouse nest destroyed by other small mammal. Box 25: Dormouse nest, no animal present.
99509				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	13.05.22	N	N/A	N/A
1	26.05.22	N	N/A	N/A
2	14.06.22	N	N/A	N/A
3	29.07.22	N	N/A	N/A
4	19.08.22	N	N/A	N/A
5	30.09.22	Y	1x male adult, 1x nest.	Tube 40: 1x male adult, 15g, this year's young in breeding condition.
6	31.10.22	Y	1x nest.	Tube 40: Dormouse nest, no animal present.
7 + collection	29.11.22	Y	1x deceased dormouse, 3x nests.	Box 3: Dormouse nest, no animal present. Tube 40: 1x deceased dormouse in nest, possible tumour to side of face. Tube 46: Dormouse nest, no animal present.
99525				

Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	19.04.22	N	N/A	N/A
1	10.05.22	N	N/A	5x bird nests recorded.
2	14.06.22	N	N/A	4x bird nests recorded.
3	03.07.22	N	N/A	N/A
4	31.08.22	N	N/A	N/A
5	12.09.22	N	N/A	N/A
6	31.10.22	N	N/A	N/A
7 + collection	29.11.22	N	N/A	4x other small mammal nests recorded.
99075				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	27.04.22	N	N/A	N/A
1	27.05.22	N	N/A	N/A
2	16.06.22	N	N/A	N/A
3	25.07.22	N	N/A	N/A
4	15.08.22	N	N/A	N/A
5	26.09.22	N	N/A	N/A
6	29.10.22	N	N/A	N/A
7 + collection	20.11.22	Y	1x nest	Tube 21: Dormouse nest, no animal present.
99079				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	27.04.22	N	N/A	N/A
1	11.05.22	N	N/A	N/A
2	17.06.22	N	N/A	N/A
3	25.07.22	N	N/A	N/A
4	15.08.22	N	N/A	N/A
5	26.09.22	Y	1x adult, 3x pinks, 1x nest	Tube 6: Adult escaped from nest before bunged - very vocal pinks within nest, minimum of 3 counted.
6	28.10.22	Y	1x nest	Tube 6: Dormouse nest. Not fully inspected due to pinks found previous month.
7 + collection	30.11.22	Y	4x nests	Tube 6: Dormouse nest, no animal present. Tube 7: Dormouse nest, no animal present. Tube 8: Dormouse nest with bracken, no animal present. Tube 11: Dormouse nest, no animal present.
99085				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	27.04.22	N	N/A	N/A
1	11.05.22	N	N/A	N/A
2	17.06.22	N	N/A	N/A
3	25.07.22	Y	1x female adult, 4x juvenile, 1x nest	Tube 18: Woven nest made from willow. Mother and 3 individuals escaped, and 4 th juvenile weighed 8.5g
4	15.08.22	Y	1x nest	Tube 18: Dormouse nest, no animal present.
5	26.09.22	Y	2x nests	Tube 18: Old dormouse nest Tube 20: Dormouse nest, empty
6	28.10.22	Y	2x nests	Tube 13: Dormouse nest, no animal present Tube 20: Escaped dormouse, nest present
7 + collection	30.11.22	Y	5x nests	Tube 13: Dormouse nest, no animal present.

				<p>Tube 18: Old dormouse nest. Tube 20: Dormouse nest, no animal present. Tube 21: Dormouse nest, no animal present. Tube 24: Dormouse nest partially destroyed by other small mammal, no animal present.</p>
99089				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	27.04.22	N/A	N/A	N/A
1	11.05.22	N/A	N/A	N/A
2	16.06.22	N/A	N/A	N/A
3	25.07.22	N/A	N/A	N/A
4	15.08.22	N/A	N/A	N/A
5	26.09.22	N/A	N/A	N/A
6	29.10.22	N/A	N/A	N/A
7 + collection	20.11.22	N/A	N/A	N/A
99136				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	28.04.22	N	N/A	N/A
1	16.08.22	Y	1x adult, 5x nests	<p>Tube 4: 1x adult escaped from nest. Tube 9: Dormouse nest, no animal present. Tube 11: Dormouse nest, no animal present. Tube 13: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present.</p>
2	30.09.22	Y	2x female adult, 4x juveniles, 9x nests	<p>Tube 2: 1x adult female in nest, 18.5g. Tube 4: Dormouse nest, no animal present. Tube 7: 1x adult female and 4 juveniles in nest. Juveniles average 10g, mother not weighed. Tube 8: Dormouse nest, no animal present. Tube 9: Dormouse nest with wood mouse. Tube 10: Dormouse nest, shrew inside. Tube 11: Dormouse nest, no animal present. Tube 13: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present.</p>
3	28.10.22	Y	9x nests. 4x juveniles	<p>Tube 1: 4x juveniles escaped nest on approach Tube 2: Dormouse nest, no animal present. Tube 4: Dormouse nest, no animal present. Tube 7: Dormouse nest, no animal, present. Tube 8: Dormouse nest, no animal present. Tube 9: Dormouse nest, no animal present. Tube 11: Dormouse nest, no animal present. Tube 13: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present.</p>
4 + collection	29.11.22	Y	9x nests, 1x juvenile	<p>Tube 1: Old dormouse nest. Tube 2: Old dormouse nest. Tube 4: Old dormouse nest. Tube 7: Dormouse nest, no animal present. Tube 8: 1x juvenile, 14g, active in nest. Tube 9: Dormouse nest, no animal present. Tube 11: Old dormouse nest. Tube 13: Old dormouse nest. Tube 14: Old dormouse nest.</p>

99149				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	10.05.22	N	N/A	N/A
1	26.05.22	N	N/A	N/A
2	14.06.22	Y	2x male adult, 2x nests.	Tube 4: 1x male adult, 14g. Tube 5: 1x adult male, 16g. White tip on tail. Poorly structured nest. Tube 6: Beginning of dormouse nest.
3	15.07.22	Y	1x adult, 1x female juvenile, 3x nests.	Tube 2: 1x female juvenile dormouse, 14g, in poorly structured nest. Tube 6: Beginnings of dormouse nest. Tube 12: 1x adult dormouse escaped from nest on approach.
4	16.08.22	Y	5x nests.	Tube 2: Dormouse nest, no animal present. Tube 5: Old dormouse nest partially destroyed by other small mammal. Tube 6: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present.
5	27.09.22	Y	5x nests.	Tube 2: Old dormouse nest. Tube 6: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 13: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present.
6	27.10.22	Y	1x juvenile, 5x nests.	Tube 2: 1x juvenile dormouse, 10g, showed signs of stress and subdued when placed back into nest. Tube 6: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 13: Old dormouse nest destroyed by other small mammal. Tube 14: Dormouse nest, no animal present.
7 + collection	30.11.22	Y	1x adult, 7x nests.	Tube 2: Old dormouse nest. Tube 6: Dormouse nest, no animal present. Tube 7: 1x adult dormouse escaped from nest on approach. Tube 11: Old dormouse nest destroyed by other small mammal. Tube 12: Dormouse nest, no animal present. Tube 13: Dormouse nest, no animal present. Tube 14: Old dormouse nest.
99154				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	28.04.22	N	N/A	N/A
1	10.05.22	N	N/A	N/A
2	14.06.22	N	N/A	N/A
3	15.07.22	N	N/A	N/A
4	16.08.22	N	N/A	N/A
5	27.09.22	Y	1x adult, 2x nests.	Tube 4: Dormouse nest, no animal present. Tube 20: 1x adult escaped from nest on approach.
6	27.10.22	Y	2x nests.	Tube 10: Beginning of dormouse nest. Tube 19: Dormouse nest, no animal present.

7 + collection	30.11.22	Y	3x nests.	Tube 17: Dormouse nest started but destroyed by other small mammal. Tube 18: Dormouse nest, no animal present. Tube 19: Dormouse nest with 4x wood mice.
99155.				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	15.06.22	N	N/A	N/A
1	30.06.22	N	N/A	N/A
2	15.07.22	N	N/A	N/A
3	16.08.22	N	N/A	N/A
4	27.09.22	Y	1x male adult, 5x nests.	Tube 2: Dormouse nest with other small mammal food cache. Tube 7: Beginning of dormouse nest. Tube 9: Dormouse nest, no animal present. Tube 12: 1x male adult in nest. Tube 14: Dormouse nest, spiders within and difficult to open tube.
5	27.10.22	Y	1x male adult, 4x juveniles, 9x nests.	Tube 2: Dormouse nest, no animal present. Tube 7: Dormouse nest, no animal present. Tube 9: 3x juveniles escaped from nest on approach. Tube 11: 1x adult male in nest, 23.5g with white tip on tail. Tube 12: Dormouse nest, no animal present. Tube 13: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present. Tube 17: 1x juvenile, 10.5g in nest. Tube 18: Dormouse nest, no animal present. Tube 19: Dormouse nest, no animal present.
6 + collection	30.11.22	Y	1x adult, 8x nests.	Tube 2: Dormouse nest, no animal present. Tube 7: Dormouse nest, no animal present. Tube 9: Dormouse nest, no animal present. Tube 11: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 13: 1x adult dormouse escaped from nest. Tube 14: Dormouse nest, no animal present. Tube 18: Dormouse nest, no animal present.
99156				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	15.06.22	N	N/A	N/A
1	30.06.22	N	N/A	N/A
2	15.07.22	N	N/A	N/A
3	16.08.22	N	N/A	N/A
4	27.09.22	N	N/A	Other small mammal nest with food cache.
5	27.10.22	N	N/A	N/A
6 + collection	30.11.22	N	N/A	N/A
99221				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	28.04.22	N	N/A	N/A
1	26.05.22	N	N/A	N/A
2	15.06.22	N	N/A	N/A

3	28.07.22	Y	2x nests.	Tube 16: Dormouse nest, no animal present. Tube 18: Dormouse nest, no animal present.
4	16.08.22	Y	3x nests.	Tube 12: Dormouse nest, no animal present. Tube 16: Dormouse nest, no animal present. Tube 18: Dormouse nest, no animal present.
5	30.09.22	Y	4x nests.	Tube 5: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 16: Dormouse nest, no animal present. Tube 18: Dormouse nest, no animal present.
6	31.10.22	Y	4x nests.	Tube 5: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 16: Dormouse nest, no animal present. Tube 18: Dormouse nest, no animal present.
7 + collection	29.11.22	Y	7x nests.	Tube 2: Dormouse nest, no animal present. Tube 3: Dormouse nest, no animal present. Tube 4: Dormouse nest, no animal present. Tube 5: Dormouse nest, no animal present. Tube 12: Old dormouse nest. Tube 16: Old dormouse nest now with wood mice. Tube 18: Old dormouse nest.
2047				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	24.05.22	N	N/A	N/A
1	31.05.22	N	N/A	N/A
2	16.06.22	N	N/A	N/A
3	25.07.22	N	N/A	N/A
4	15.08.22	Y	1x nest	Tube 12: Structured nest, small in size - likely dormouse although no animal present to confirm.
5 + Collection	20.11.22	N	N/A	N/A
2174				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	23.05.22	N	N/A	N/A
1	31.05.22	N	N/A	N/A
2	13.06.22	N	N/A	N/A
3	28.07.22	N	N/A	N/A
4	19.08.22	N	N/A	N/A
5	12.09.22	N	N/A	N/A
6	27.10.22	N	N/A	N/A
7 + collection	20.11.22	N	N/A	8x other small mammal nests recorded.
2196				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	25.05.22	N	N/A	N/A
1	30.05.22	N	N/A	N/A
2	16.06.22	N	N/A	N/A
3	29.07.22	N	N/A	N/A
4	18.08.22	Y	2x nests	Tube 5: Dormouse nest, no animals present. Tube 7: Cannot conclusively say dormouse, green leaves and grass, not a great deal of

				structure, may have been dormouse trashed by other small mammal.
5	26.09.22	Y	4x nests	Tube 1: Dormouse nest partially trashed by wood mouse present at time of survey. Tube 5: Old dormouse nest with wood mouse and young. Tube 6: Old dormouse nest with wood mice. Tube 8: Dormouse nest very structured, stripped bark, and grasses- wood mouse present in nest.
6	29.10.22	Y	4x nests	Tube 1: Old dormouse nest. Tube 5: Old dormouse nest. Tube 7: Old dormouse nest. Tube 8: Old dormouse nest.
7 + collection	28.11.22	Y	4x nests	Tube 1: Old dormouse nest. Tube 5: Old dormouse nest. Tube 7: Old dormouse nest. Tube 8: Old dormouse nest.
2204				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	23.05.22	N	N/A	N/A
1	31.05.22	N	N/A	N/A
2	13.06.22	N	N/A	N/A
3	28.07.22	N	N/A	N/A
4	19.08.22	N	N/A	N/A
5	12.09.22	N	N/A	1x other small mammal nest, 1x other small mammal food cache.
6	27.10.22	Y	1x nest	Tube 29: Old dormouse nest with wood mouse present.
7 + collection	20.11.22	N	N/A	N/A
2250				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	25.05.22	N	N/A	N/A
1	31.05.22	N	N/A	N/A
2	13.06.22	N	N/A	N/A
3	28.07.22	N	N/A	N/A
4 + collection	19.08.22	N	N/A	N/A
2278				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	24.05.22	N	N/A	N/A
1	30.05.22	N	N/A	All 35 tubes surveyed.
2	13.06.22	N	N/A	All 35 tubes surveyed.
3	16.08.22	Y	1x adult female, 1x juvenile, 3x nests	Access permitted to only half the survey site – 16/35 tubes surveyed. Tube 21: Small woven dormouse nest, structured, no animals present. Tube 31: Adult female in woven structured nest, pregnant, 17g. Tube 33: Dormouse nest, juvenile dormouse escaped.

4	27.09.22	Y	3x female adult, 1x male adult, 9x juvenile, 4x nests	Access permitted to only half the survey site – 16/35 tubes surveyed. Tube 21: Grey eyes close x 2 not handled, mother absent. Tube 23: 5g young, female 20.5g. Tube 25: Structured dormouse nest male TS 18g female 12.5g. Tube 31: Min. of 3 pinks in nest, mother not weighed, handled to return to nest. Female small and still with some grey fur.
5	27.10.22	Y	1x male adult, 1x female adult, 6x nests	Access permitted to only half the survey site – 16/35 tubes surveyed. Tube 21: Dormouse nest, no animal present. Tube 23: 26.5g adult male, 22g adult female, nest. Tube 31: Previously maternity nest, no animals present. Tube 33: Dormouse nest, no animal present. Tube 34: Dormouse nest, no animal present. Tube 35: Dormouse nest, no animal present.
6 + collection	29.11.22	Y	14x nests	All 35 tubes surveyed and collected. Third survey for 19 tubes due to access restrictions. Tube 3: Old dormouse nest. Tube 5: Dormouse nest, no animal present. Tube 7: Dormouse nest, no animal present. Tube 9: Old dormouse nest. Tube 10: Dormouse nest, no animal present. Tube 12: Dormouse nest, no animal present. Tube 14: Dormouse nest, no animal present. Tube 16: Dormouse nest, no animal present. Tube 21: Dormouse nest with dead rat in tube. Tube 23: Old dormouse nest. Tube 25: Old dormouse nest. Tube 31: Old dormouse nest. Tube 34: Old dormouse nest. Tube 35: Old dormouse nest.
2345				
Survey visit	Date	Dormouse signs Y/N	Dormouse evidence	Notes
Deployment	25.05.22	N	N/A	N/A
1	30.05.22	N	N/A	N/A
2	17.06.22	N	N/A	N/A
3	13.07.22	N	N/A	N/A
4 + collection	31.08.22	N	N/A	N/A

4. Conclusion

Hazel dormice are mobile species, and although they are not known to disperse great distances, it is accepted that they will move across connected suitable habitat.

No evidence of hazel dormouse was recorded along hedgerow 99156, however this hedgerow is connected at either end to 99154 and 99155 which both had confirmed dormouse presence. 99156 is a younger hedgerow than 99154 and 99155, however the same plant food sources are present in all three hedgerows. It is therefore considered that 99156 should be treated as having an *assumed presence* for hazel dormice, given their connectivity and the abundance of dormice found in 99154 and 99155.

Similarly, no evidence of hazel dormouse was recorded in 99089, however this survey site relates to the southern side of a hedgerow, of which the northern side (99075) did have confirmed evidence of dormouse. It is advised that 99075 and 99085 should be considered together to conclude presence of hazel dormouse in this hedgerow.

Finally, no evidence of hazel dormouse was recorded at 99041 however this survey site is connected at the northern end to both 99079 and 99085, both of which had confirmed presence of dormouse. This network of hedgerows is additionally connected to survey site 2047, which also had confirmed presence of dormouse. It is considered that 99041 should be treated as having *assumed presence* for hazel dormice, given the very few survey tubes established on this section of hedgerow and it's connection to the hedgerow network of 99079, 99085 and 2047.

5. REFERENCES

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APPENDIX A: Figures

APPENDIX B: Habitat Suitability Assessments

B.1 Hedgerows

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_01	621162	218925	223	2	0	3	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Quercus robu. Rosa species. Ulmus species	Next to linear belt of trees	No - further survey not required
5EHE_02	621246	219046	158	2	5	2	18/06 /2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Prunus spinosa. Quercus robur. Salix spp. Sambucus nigra. Rosa canina. Acer campestre.	N/A	No - further survey not required
5EHE_03	621363	219094	137	2	0	1	18/06 /2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Rosa canina. Prunus spinosa.	N/A	No - further survey not required
5EHE_04	621328	218919	180	2	8	3	18/06 /2022	Patrick Davies	Acer pseudoplatanus. Crataegus monogyna. Prunus spinosa. Rosa canina. Rubus fruticosus. Sambucus nigra. Quercus robur. Salix spp.	Continuation of hedgerow further SE. Some connectivity to other hedgerows in the area.	No - further survey not required
5EHE_05	621244	218819	115	1.5	50	4	18/06 /2022	Patrick Davies	Quercus robur. Crataegus monogyna. Rubus fruticosus. Rosa canina. Prunus spinosa. Sambucus nigra.	Not fully intact	No - further survey not required
5EHE_06	621375	218751	215	2	8	4	18/06 /2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Prunus spinosa. Quercus robur.	Not fully intact, areas of young bramble and trees	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
									Rosa canina. Ulmus minor. Salix spp. Sambucus nigra.		
5EHE_07	621333	218594	250	2	0	4	18/06 /2022	Patrick Davies	Quercus robur. Sambucus nigra. Rubus fruticosus. Rosa canina. Crataegus monogyna. Prunus spinosa. Salix spp.	Not intact areas of hedge and tall ruderals	No - further survey not required
5EHE_08	621217	218643	300	2	0	4	18/06 /2022	Patrick Davies	Crataegus monogyna. Sambucus nigra. Quercus robur. Prunus spinosa. Rubus fruticosus. Rosa canina.	N/A	No - further survey not required
5EHE_09	621197	218655	300	4	7	4	13/06 /2022	Patrick Davies	Acer campestre. Rubus fruticosus. Ulmus minor. Crataegus monogyna. Prunus spinosa. Fraxinus excelsior.	N/A	No - further survey not required
5EHE_10	621588	218406	530	3	20	3	18/06 /2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Prunus spinosa. Quercus robur. Rosa canina. Ulmus minor. Salix spp. Sambucus nigra.	Not fully intact, areas of young bramble and trees	No - further survey not required
5EHE_11	621663	218106	211	4	0	0	18/06 /2022	Patrick Davies	Prunus spinosa. Rubus fruticosus. Ulmus minor.	N/A	No - further survey not required
5EHE_12	621674	217851	586	3	0	0	18/06 /2022	Patrick Davies	Rubus fruticosus. Rosa canina. Prunus spinosa. Crataegus monogyna. Sambucus nigra. Salix spp. Quercus robur. Acer pseudoplatanus.	Not fully intact	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_13	621143	218170	350	3	5	2	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Quercus robur. Acer campestre.	Areas of hedgerow and lines of trees.	No - further survey not required
5EHE_14	621124	217862	224	3	1	3	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Quercus robur. Acer campestre.	Areas of hedgerow and lines of trees.	No - further survey not required
5EHE_15	621872	218800	365	3	75	3	18/06 /2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Prunus spinosa. Quercus robur. Acer campestre. Malus sylvestris. Populus spp.	Not intact, areas of young bramble, scattered trees and tall ruderals.	No - further survey not required
5EHE_16	622092	218737	85	4	50	4	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Populus spp. Corylus avellana. Rosa canina. Salix spp. Acer campestre. Prunus spp.	N/A	No - further survey not required
5EHE_17	622271	218426	240	1	50	3	18/06 /2022	Patrick Davies	Prunus spinosa. Crataegus monogyna. Rubus fruticosus. Salix spp. Sambucus nigra. Rosa canina.	Some connectivity to other hedgerows in the wider environment	No - further survey not required
5EHE_18	622422	218483	55	4	5	2	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa	Some connectivity to other hedgerows in the wider environment	No - further survey not required
5EHE_19	622381	218597	28	1	50	3	18/06 /2022	Patrick Davies	Crataegus monogyna. Fraxinus excelsior. Prunus spinosa. Salix speices	Some connectivity to other hedgerows in the wider environment	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_20	622155	218187	290	5	8	3	18/06 /2022	Patrick Davies	Rubus fruticosus. Rosa canina. Prunus spinosa. Crataegus monogyna. Sambucus nigra. Salix spp. Quercus robur. Acer pseudoplatanus.	Not fully intact	No - further survey not required
5EHE_21	621094	217983	450	2	5	2	18/06 /2022	Patrick Davies	Crataegus monogyna	N/A	No - further survey not required
5EHE_22	620490	219492	99	1.5	15	2	20/06 /2022	Chloe Marzuoli	Crataegus monogyna	N/A	No - further survey not required
5EHE_23	620441	219407	124	2	20	2	20/06 /2022	Chloe Marzuoli	Crataegus monogyna	Gappy	No - further survey not required
5EHE_24	620415	219179	140	3	0	1	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Sambucus nigra.	Next to Great Holland Pits Nature Reserve and within Exclusion Zone.	No - further survey not required
5EHE_25	620418	219034	30	2	50	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spp.	N/A	No - further survey not required
5EHE_26	620503	219045	234	3	8	0	20/06 /2022	Chloe Marzuoli	Cretaceous monogyna. Rubus fruticosus. Corylus avellana	Hawthorn with nettle undergrowth	No - further survey not required
5EHE_27	619522	220841	488	1.5	0	0	27/06 /2022	Mark Lovell	Crataegus monogyna. Prunus spinosa. Acer campestre.	No connectivity to other hedgerows. Well established but recently managed.	No - further survey not required
5EHE_28	619419	220553	322	1	0	1	27/06 /2022	Mark Lovell	Crataegus monogyna. Prunus spinosa. Acer campestre.	Well established hedgerow but recently managed.	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_29	619676	221358	326	2	0	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Acer campestre. Cornus sanguinea. Prunus spp. Fraxinus excelsior. Prunus spinosa. Quercus robur.	Occasional scattered trees at SW end before joining woodland.	No - further survey not required
5EHE_30	619664	222106	230	3.5	8	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Rosa canina.	N/A	No - further survey not required
5EHE_31	619454	222054	458	2	0	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Rosa canina. Quercus robur.	N/A	No - further survey not required
5EHE_32	619386	222254	174	1.5	0	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Quercus robur. Prunus spinosa. Rubus fruticosus.	N/A	No - further survey not required
5EHE_33	619222	222165	107	3	0	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Quercus robur. Prunus spinosa.	N/A	No - further survey not required
5EHE_34	619239	222322	245	3	0	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Quercus robur. Prunus spinosa.	N/A	No - further survey not required
5EHE_35	619171	222456	35	5	0	0	18/06 /2022	Patrick Davies	Quercus robur. Prunus spinosa. Rosa canina. Crataegus monogyna. Acer campestre.	N/A	No - further survey not required
5EHE_36	619111	222356	152	4	8	0	18/06 /2022	Patrick Davies	Quercus robur. Prunus spinosa. Rosa canina. Crataegus monogyna. Acer campestre.	N/A	No - further survey not required
5EHE_37 /2174	619147	222687	168	3	20	0	18/06 /2022	Patrick Davies	Quercus robur. Crataegus monogyna. Prunus spinosa. Acer campestre.	5E_SLR Object ID 2174	Yes - further survey required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
									Rubus fruticosus. Fraxinus excelsior. Rosa canina.		
5EHE_38 /2204	618961	222725	242	3	3	0	18/06 /2022	Patrick Davies	Rosa canina. Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Quercus robur. Sambucus nigra.	5E_SLR Object ID 2204	Yes - further survey required
5EHE_39	618964	222586	110	4	0	0	18/06 /2022	Patrick Davies	Rubus fruticosus. Rosa canina. Quercus robur. Crataegus monogyna. Prunus spinosa. Fraxinus excelsior. Prunus spp.	N/A	No - further survey not required
5EHE_40	618821	222677	189	2	0	2	18/06 /2022	Patrick Davies	Rubus fruticosus. Rosa canina. Quercus robur. Crataegus monogyna. Prunus spinosa. Fraxinus excelsior. Prunus spp.	N/A	No - further survey not required
5EHE_41	618742	222781	30	2	0	0	18/06 /2022	Patrick Davies	Corylus avellana. Quercus robur. Fraxinus excelsior. Rubus fruticosus. Prunus spinosa. Rosa canina. Sambucus nigra.	Not intact	No - further survey not required
5EHE_42	618837	222967	61	3.5	2	0	18/06 /2022	Patrick Davies	Corylus avellana. Quercus robur. Fraxinus excelsior. Rubus fruticosus. Prunus spinosa. Rosa canina. Sambucus nigra.	Not intact	No - further survey not required
5EHE_43	618456	222887	150	2	2	0	18/06 /2022	Patrick Davies	Quercus robur. Fraxinus excelsior. Crataegus monogyna. Prunus spinosa. Sambucus nigra. Rubus fruticosus.	Not intact, areas of scattered trees and hedgerow	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_44	617813	223405	170	2	2	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Rosa canina. Salix spp. Lonicera periclymenum. Quercus robur. Ulmus minor.	N/A	No - further survey not required
5EHE_45	616674	223710	104	3	0	0	20/06 /2022	Ross Lane	Crataegus monogyna. Acer campestre. Rosa sp. Lonicera periclymenum. Corylus avellana. Prunus spinosa. Quercus robur. Rubus fruticosus. Cornus sanguinea. Tt	Young, short well managed hedgerow. More dense than tall. Scope out due to surveying neighbouring habitats	No - further survey not required
5EHE_46	616323	223743	435	3	0	0	20/06 /2022	Ross Lane	Crataegus monogyna. Acer campestre. Rosa sp. Lonicera periclymenum. Corylus avellana. Prunus spinosa. Quercus robur. Rubus fruticosus. Cornus sanguinea. Tt	Young, short well managed hedgerow. More dense than tall. Scope out due to surveying neighbouring habitats	No - further survey not required
5EHE_47	616565	224014	138	4	10	0	13/06 /2022	Patrick Davies	Quercus robur. Crataegus monogyna. Acer campestre. Fraxinus excelsior. Sambucus Nigra. Ulmus minor.	Not intact made up of scattered trees, hedgerow and tall ruderals	No - further survey not required
5EHE_48	616230	224085	178	4	0	0	13/06 /2022	Patrick Davies	Quercus robur. Crataegus monogyna. Rubus fruticosus. Rosa canina. Acer campestre.	N/A	No - further survey not required
5EHE_49	616146	224276	380	4	0	0	18/06 /2022	Patrick Davies	Quercus robur. Crataegus monogyna. Rubus fruticosus. Prunus spinosa. Acer campestre.	N/A	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_51	618626	222924	225	4	8	1	18/06/2022	Patrick Davies	Quercus robur. Ulmus minor. Rubus fruticosus. Rosa canina. Crataegus monogyna. Prunus spinosa.	N/A	No - further survey not required
5EHE_52	618583	222873	385	2	3	1	18/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus.	N/A	No - further survey not required
5EHE_53	617728	223343	270	2	0	2	18/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Rosa canina. Ulmus minor. Fraxinus excelsior. Quercus robur.	N/A	No - further survey not required
5EHE_54	617564	223380	386	2	1	2	18/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Rosa canina. Quercus robur.	Some connectivity to the wider environment	No - further survey not required
5EHE_55	617330	223312	150	4	12	3	18/06/2022	Patrick Davies	Acer campestre. Alnus glutinosa. Corylus avellana. Crataegus monogyna. Prunus spinosa. Quercus robur. Rosa species. Ulmus species	Hedgerow connects to good dormouse habitat in wider environment.	No - further survey not required
5EHE_56	617630	223596	232	3	0	3	18/06/2022	Patrick Davies	Quercus robur. Prunus spinosa. Acer campestre. Rubus fruticosus. Rosa canina. Sambucus nigra. Crataegus monogyna.	Hedgerow connects to good dormouse habitat in wider environment.	No - further survey not required
5EHE_57	617405	223633	175	5	2	1	18/06/2022	Patrick Davies	Acer campestre. Crataegus monogyna. Ulmus minor. Prunus spinosa. Rubus fruticosus. Rosa canina. Sambucus nigra.	Hedgerow connects to dormouse habitat in wider environment, some small gaps.	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_58	616779	223672	50	0.5	30	0	18/06/2022	Patrick Davies	Quercus robur. Crataegus monogyna.	Not intact made up of scattered Oaks and hedge	No - further survey not required
5EHE_59	616883	223670	60	0.5	20	0	18/06/2022	Patrick Davies	Quercus robur. Crataegus monogyna.	Not intact made up of scattered Oaks and hedge	No - further survey not required
5EHE_60	616947	223758	51	0.5	7	0	18/06/2022	Patrick Davies	Acer campestre. Crataegus monogyna	Not intact	No - further survey not required
5EHE_61	615169	225107	340	2	12	0	20/06/2022	Ross Lane	Crataegus monogyna. Acer campestre. Prunus spinosa. Hedera helix. Corylus avellana. Rubus fruticosus.	Non contiguous at North end. Dense hedgerow to middle section. Lined with scattered mature trees in hedgerow. Somewhat fragmented but could offer some habitat. Tree group in close proximity to East.	No - further survey not required
5EHE_62	615806	224657	345	3	15	0	13/06/2022	Patrick Davies	Quercus robur. Fraxinus excelsior. Corylus avellana. Rubus fruticosus. Acer campestre. Crataegus monogyna. Rosa canina.	Not intact. Made up of sections of hedge, scattered trees and tall ruderals.	No - further survey not required
5EHE_63	614547	226182	349	1.5	5	0	20/06/2022	Ross Lane	Rosa sp. Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Quercus robur. Acer campestre.	Non contiguous hedgerow in parts. Short and regularly managed. Roads to East and arable fields to West. Poor connectivity	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_64	614311	226191	142	2.5	0	0	13/06/2022	Patrick Davies	Crataegus monogyna. Quercus robur. Rubus fruticosus. Rosa canina.	N/A	No - further survey not required
5EHE_65	613768	226730	457	2	1	0	20/06/2022	Ross Lane	Crataegus monogyna. Quercus robur. Corylus avellana. Rubus fruticosus. Prunus spinosa. Lonicera periclymenum	Hedgerow dominated with mature trees. Road to South. Arable Fields to North. Habitat looks disconnected	No - further survey not required
5EHE_66	612503	227138	420	4.5	0	0	20/06/2022	Ross Lane	Quercus robur. Crataegus monogyna. Acer campestre. Acer platanoides. Cornus sanguinea. Prunus avium. Prunus spinosa. Carpinus betulus. Corylus avellana	Managed hedgerow with taller presences (6m height). Connected to larger tree group to North. Busy road to West. Arable fields to East. Low potential	No - further survey not required
5EHE_67	612550	227382	216	3.5	2	1	20/06/2022	Ross Lane	Crataegus monogyna. Rubus fruticosus. Acer pseudoplatanus. Quercus robur. Corylus avellana. Prunus spinosa.	Connected to other hedgerows to East and South. Busy road to North and agricultural fields to South so reasonably isolated overall. Hedgerow likely falls out of scope	No - further survey not required
5EHE_68	613052	227528	265	1.5	0	1	20/06/2022	Ross Lane	Crataegus monogyna. Corylus avellana. Prunus spinosa. Rubus fruticosus. Cornus sanguinea. Quercus robur. Acer campestre. Malus sylvestris. Acer pseudoplatanus.	Small hedgerow with occasional larger tree. Busy road to North and arable fields to South. Poor connectivity overall.	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
5EHE_69	612905	227512	530	0.5	5	1	20/06/2022	Ross Lane	Crataegus monogyna. Corylus avellana. Acer pseudoplatanus. Quercus robur. Prunus spinosa. Lonicera periclyrinum.	Connects to larger tree group to East. Short hedgerow with occasional tall tree. Busy road to South. Arable fields to North. Poor connectivity overall.	No - further survey not required
5EHE_70	612109	228051	470	1	2	1	20/06/2022	Ross Lane	Crataegus monogyna, prunus spinosa	Isolated hedge	No - further survey not required
5EHE_71	616957	223860	95	1	12	2	18/06/2022	Patrick Davies	Acer campestre. Crataegus monogyna. Prunus spinosa. Quercus robur. Rosa species. Ulmus species	Not intact	No - further survey not required
5EHE_71a	611902	227594	270	1	0	2	20/06/2022	Ross Lane	Crataegus monogyna, quercus robur, corylus avellana, rubus fruticosus, ulmus sp, Rosa sp, prunus spinosa, ulex europaeus,	Good hedgerow habitat, connected to neighboring heroes and mature tree lines.	No - further survey not required
5EHE_72/99136	617314	223492	150	3	1	3	17/06/2022	Patrick Davies	Prunus spinosa. Corylus avellana. Quercus robur. Fraxinus excelsior. Ulmus minor. Rubus fruticosus. Rosa canina. Crataegus monogyna. Acer campestre. Sambucus nigra.	Some gaps contain bramble within tall ruderals. NF_5E Dormouse Hedgerows ID – 99136. Partly mapped as broad habitat in BNG datasets due to being larger than MMU.	Yes - further survey required
5EHE_72a	611744	227701	234	1	0	2	20/06/2022	Ross Lane	Crataegus monogyna, quercus robur, corylus avellana, rubus fruticosus,	Good hedgerow habitat, connected to	No - further survey not required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
									ulmus sp, Rosa sp, prunus spinosa, ulex europaeus,	neighboring heroes and mature tree lines.	
5EHE_73 /2278	617029	223389	150	4	0	1	18/06 /2022	Patrick Davies	Quercus robur. Crataegus monogyna. Rubus fruticosus. Prunus spinosa. Acer campestre. Corylus avellana. Salix spp.	Good connectivity to the wider environment - 5E_SLR Dormouse Hedgerows Object ID - 2278	No - further survey not required
5EHE_90	620570	218604	219	1.5	5	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Populus spp. Rosa canina. Cornus sanguinea. Acer platanoides.	N/A	No - further survey not required
5EHE_91	620749	218613	100	2	11	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Rosa canina. Acer campestre.	Not intact	No - further survey not required
5EHE_92	620910	218712	266	2	15	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Quercus robur. Rubus fruticosus. Rosa canina. Acer campestre. Sambucus nigra.	Not intact, areas of scattered trees, hedgerow and tall ruderals.	No - further survey not required
5EHE_93	620985	218908	292	3	0	0	18/06 /2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Sambucus nigra. Cornus sanguinea. Rosa canina. Quercus robur. Ulmus minor.	N/A	No - further survey not required
2047 - descoped	620520	219913	286	35	0	4	20/06 /2022	Chloe Marzuoli	Prunus spinosa. Crataegus monogyna. Rubus fruticosus. Acer		Yes - further survey required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
									campestre. Ulmus minor. Prunus avium		
2196	617921	223030	129	6	5	3	18/06/2022	Patrick Davies	Prunus spinosa. Prunus spp. Rubus fruticosus. Crataegus monogyna. Rosa canina. Lonicera periclymenum.	Outside RLB for BNG mapping scope.	Yes - further survey required
2345 - descope d	614552	225782	247	1	5	3	13/06/2022	Patrick Davies	Quercus robur. Rubus fruticosus. Rosa canina. Corylus avellana. Crataegus monogyna. Acer campestre.	Young hedgerow.	Yes - further survey required
99075/5EHE_78	619925	219934	845.78	0	0	1	24/06/2022	Chloe Marzuoli	Quercus robur. Fraxinus excelsior. Rubus fruticosus. Crataegus monogyna.		Yes - further survey required
99079	620267	219683	237.89	0	0	3	23/06/2022	Chloe Marzuoli	Rubus fruticosus. Quercus Robert. Corylus avellana. Sambucus nigra.	Very good habitat. Mapped as broad habitat in BNG datasets due to being larger than MMU.	Yes - further survey required
99085	620579	219774	349.25	4	0	6	23/06/2022	Chloe Marzuoli	Quercus Robert. Sambucus nigra. Rubus fructocosus. Crataegus monogyna.	Mapped as broad habitat in BNG datasets due to being larger than MMU.	Yes - further survey required
99089/5EHE_79	619936	219933	852.97	0	0	2	24/06/2022	Chloe Marzuoli	Rubus fruticosus. Quercus robur. Crataegus monogyna.		Yes - further survey required
99149/5EHE_75	616565	223628	273.96	10	0	5	01/07/2022	Patrick Davies	Prunus spinosa. Crataegus monogyna. Corylus avellana. Rubus fruticosus. Rosa canina. Cornus sanguinea. Acer		Yes - further survey required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
									campestre. Prunus spp. Quercus robur. Lonicera periclymenum. Carpinus betulus. Fraxinus exc		
99154/ 5EHE_76	616141	223761	266.11	2	5	3	29/06 /2022	Ross Lane	Crataegus monogyna. Prunus spinosa. Corylus avellana. Quercus robur. Acer campestre. Rubus fruticosus.	Mixed species hedge with early mature trees. 4m height is an approximate average. Surveyed from distance due to cattle in field	Yes - further survey required
99155/ 5EHE_48 a and 5EHE_48 b	616434	223819	785.91	3	1	4	28/06 /2022	Ross Lane	Ulmus glabra. Acer campestre. Rubus fruticosus. Prunus spinosa. Quercus robur. Rosa sp. Lonicera periclymenum. Buddleia Davidii. Cornus sanguinea.	Dense hedgerow with mature tree present. Mixed species. Connects to tree group at NW end	Yes - further survey required
99156/ 5EHE_74	616282	223928	306.17	2	1	4	29/06 /2022	Ross Lane	Crataegus monogyna. Prunus spinosa. Cornus sanguinea. Rubus fruticosus. Corylus avellana. Acer campestre.	Mixed species hedge. Well managed but dense	Yes - further survey required
99221/ 5EHE_77	616530	224167	374.97	3	1	1	28/06 /2022	Ross Lane	Lonicera periclymenum. Quercus robur. Juglans regia. Crataegus monogyna. Prunus spinosa. Corylus avellana. Rubus fruticosus. Rosa sp. Acer campestre.	Road to East. No connectivity to SW. Minor or connectivity to hedgerows at North end. Reasonably isolated habitat and patchy growth in places. Mature trees form the majority of vegetation	Yes - further survey required

Hedge ID	Eastings	Northings	Length (m)	Width (m)	Gap %	Connection	Date	Surveyor	Food Species	Notes	Further Survey
99041	620446	219622	205.44	0	0	3	23/06 /2022	Chloe Marzuoli	Acer campestre. Rubus fruticosus. Sambucusa nigra. Quercus Robert. Hedera helix.	Mapped as broad habitat in BNG datasets due to being larger than MMU.	Yes - further survey required

B.2 Woodlands and Scrub

Area Object ID	Eastings	Northings	Date	Surveyor	Food Species	Notes	Further Survey
0	617802	223072	13/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Quercus robur. Fraxinus excelsior. Ulmus minor. Rubus fruticosus. Rosa canina. Betula pendula. Acer pseudoplatanus. Lonicera periclymenum. Acer campestre. Sambucus		No - further survey not required
1931	621407	217735	13/06/2022	Patrick Davies	Rubus fruticosus. Rosa canina. Crataegus monogyna. Salix spp. Prunus spinosa.	Not intact, clumps of bramble, tall ruderals and occasional small scattered trees	No - further survey not required
1934	621347	217797	13/06/2022	Patrick Davies	Rubus fruticosus.	Large patch of bramble surrounded by tall ruderals	No - further survey not required
1942	622325	218095	23/06/2022	Chloe Marzuoli	Rubus fruticosus.	Bramble area	No - further survey not required

1961	621110	218645	13/06/2022	Patrick Davies	Crataegus monogyna.	Area of tall ruderals and scattered trees. Unable to access fully as private property.	No - further survey not required
1962	621169	218670	13/06/2022	Patrick Davies	Crataegus monogyna. Malus sylvestris. Betula pubescens. Rubus fruticosus. Cornus sanguinea. Ulmus minor. Populus spp. Prunus spp. Fagus sylvatica f. purpurea.	Garden. In Exclusion Zone	No - further survey not required
1964	621123	218737	13/06/2022	Patrick Davies	Quercus robur. Acer pseudoplatanus. Prunus spp. Crataegus monogyna. Corylus avellana.	Unable to access as part of private property. Scattered trees around garden.	No - further survey not required
1972	621131	218793	13/06/2022	Patrick Davies	Salix spp. Crataegus monogyna. Rubus fruticosus. Acer pseudoplatanus. Prunus spinosa. Prunus spp. Sambucus nigra. Ulmus minor.	Scattered trees around garden pond	No - further survey not required
1975	620303	218863	13/06/2022	Patrick Davies	Crataegus monogyna. Sambucus nigra. Rubus fruticosus. Quercus robur. Fraxinus excelsior. Prunus spinosa.	Unable to access fully due to being a garden of private property. In Exclusion Zone	No - further survey not required
1985	620388	218955	13/06/2022	Patrick Davies	Salix spp. Aesculus hippocastanum. Corylus avellana. Crataegus monogyna. Pinus sylvestris. Acer platanoides.	Scattered trees within garden. In Exclusion Zone	No - further survey not required
1993	621203	218621	13/06/2022	Patrick Davies	Acer campestre. Rubus fruticosus. Ulmus minor. Crataegus monogyna. Prunus spinosa.		No - further survey not required
1993	621153	218920	13/06/2022	Patrick Davies	Acer campestre. Ulmus minor. Crataegus monogyna. Rubus fruticosus. Cornus sanguinea.	Linear belt of trees	No - further survey not required

2002	620307	219085	13/06/2022	Patrick Davies	Corylus avellana. Quercus robur. Rubus fruticosus. Salix spp. Sambucus nigra. Crataegus monogyna. Prunus spinosa. Taxus baccata. Rosa canina. Prunus spp.	Part of Great Holland Pits Nature Reserve. In Exclusion Zone	No - further survey not required
2006	620391	219131	13/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Quercus robur. Rubus fruticosus. Salix spp. Sambucus nigra.	Part of Great Holland Pits Nature Reserve	No - further survey not required
2007	620248	219262	13/06/2022	Patrick Davies	None	Gravel pit with good surrounding habitat.	No - further survey not required
2008	620772	219208	23/06/2022	Chloe Marzuoli	None		No - further survey not required
2017	620276	219305	13/06/2022	Patrick Davies	Crataegus monogyna. Salix spp. Quercus robur. Rubus fruticosus. Acer campestre. Betula pendula. Rosa canina. Ulmus minor. Sambucus nigra. Prunus spinosa. Fraxinus excelsior.	Part of Great Holland Pits Nature Reserve	No - further survey not required
2037	620157	219522	23/06/2022	Chloe Marzuoli	Quercus Robert. Rubus fruticosus. Sambucus nigra. Crataegus monogyna. Corylus avellana. Prunus avium. Fraxinus excelsior	Mature woodland. In Exclusion Zone	No - further survey not required
2038	620293	219739	23/06/2022	Chloe Marzuoli	None	Isolated area of trees and scrub.	No - further survey not required
2039	620558	219736	23/06/2022	Chloe Marzuoli	Quercus Robert. Rubus fruticosus. Prunus avium. Rubus fruticosus. Alnus glutinosa. Conifer sp. Prunus spinosa. Castanets sativa	In Exclusion Zone	No - further survey not required
2073	619304	220366	27/06/2022	Mark Lovell	Quercus rober. Prunus spinosa. Rubus fruticosus. Prunus avium. Sambucus nigra. Crataegus monogyna. Acer campestre	Diverse species but with poor understory	No - further survey not required

2094	620158	220675	27/06/2022	Mark Lovell	Prunus domestica. Quercus rober. Prunus avuim. Aesculus hippocastanum. Sambucus nigra. Pinus nigra. Sorbus aucuparia. Corylus avellana. Ligustrum vulgare. Hedera helix. Prunus spinosa. Lonicera per	Suitable woodland block is to the east with moderate to good linear habitat	No - further survey not required
2108	619800	220999	27/06/2022	Mark Lovell	Quercus robur. Corylus avellana. Sambucus nigra. Vibernum opulus. Rubus fruticosus.	No direct connectivity to hedgerows. No scrub understory.	No - further survey not required
2125	619341	221402	13/06/2022	Patrick Davies	Rubus fruiticosus. Ulmus minor. Prunus spinosa.	Unable to fully access as part of private property. In Exclusion Zone	No - further survey not required
2126	619291	221353	13/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Rubus fruiticosus. Rosa canina. Ulmus minor. Cornus sanguinea. Acer campestre. Fraxinus excelsior. Salix spp.	Some areas cover hedgerow along road and others cover scrub. Both on private property. In Exclusion Zone	No - further survey not required
2129	620243	221574	13/06/2022	Patrick Davies	Quercus robur.	Not woodland, single Oak tree on field margin. Part of line of oaks and hawthorns.	No - further survey not required
2130	619726	221627	13/06/2022	Patrick Davies	Crataegus monogyna. Prunus spinosa. Acer pseudoplatanus. Acer campestre. Rubus fruiticosus. Rosa canina. Quercus robur. Sambucus nigra.	Small area of woodland connected to garden of property. In Exclusion Zone	No - further survey not required
2138	619632	221733	13/06/2022	Patrick Davies	Ulmus minor. Crataegus monogyna. Prunus spinosa. Rubus fruiticosus.	In Exclusion Zone	No - further survey not required
2142	619633	221876	13/06/2022	Patrick Davies	Quercus robur. Aesculus hippocastanum. Malus sylvestris. Crataegus monogyna.	Area covers garden of private property. In Exclusion Zone	No - further survey not required

2143	619335	221955	13/06/2022	Patrick Davies	None	Leylandii hedgerow and part of private property. In Exclusion Zone	No - further survey not required
2148	619260	222105	13/06/2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Prunus spinosa.	Only able to access from neighbouring field as no access granted. In Exclusion Zone	No - further survey not required
2159	619021	222200	13/06/2022	Patrick Davies	Crataegus monogyna. Quercus robur. Sambucus nigra. Prunus spinosa. Salix spp. Prunus spp.	Unable to access conifers as on private property. In Exclusion Zone	No - further survey not required
2167	619339	222544	13/06/2022	Patrick Davies	Quercus robur. Fraxinus excelsior. Corylus avellana. Ilex aquifolium. Castanea sativa. Rosa canina. Pinus sylvestris. Rubus fruticosus. Crataegus monogyna.		No - further survey not required
2169	619040	222469	13/06/2022	Patrick Davies	Quercus robur. Prunus spinosa. Crataegus monogyna. Fraxinus excelsior. Rosa canina. Castanea sativa. Rubus fruticosus. Corylus avellana. Sambucus nigra. Acer campestre. Pinus sylvestris.	Good connectivity to wider environment. In Exclusion Zone	No - further survey not required
2170	618484	222660	13/06/2022	Patrick Davies	None	Area covers house and driveway. In Exclusion Zone	No - further survey not required
2173	618388	222727	13/06/2022	Patrick Davies	Rubus fruticosus. Prunus spinosa.	Bungalow and garden. Small area of hedgerow on field margin. In Exclusion Zone	No - further survey not required
2188	619204	222964	13/06/2022	Patrick Davies	Fraxinus excelsior. Rubus fruticosus. Rosa canina. Acer campestre. Pinus sylvestris. Sambucus nigra. Crataegus monogyna. Prunus spinosa.		No - further survey not required

2198	617626	223102	13/06/2022	Patrick Davies	Quercus robur. Salix spp. Castanea sativa. Fraxinus excelsior. Crataegus monogyna. Prunus spinosa.	Only able to view from distance as woodland occurs on private property. In Exclusion Zone	No - further survey not required
2214	618877	223236	13/06/2022	Patrick Davies	Sambucus nigra. Quercus robur. Fraxinus excelsior. Acer pseudoplatanus. Crataegus monogyna. Fagus sylvatica. Prunus spinosa. Betula pendula. Prunus spp.	In Exclusion Zone	No - further survey not required
2234	617821	223466	13/06/2022	Patrick Davies	Crataegus monogyna. Rubus fruticosus. Acer pseudoplatanus. Salix spp. Prunus spinosa. Castanea sativa. Aesculus hippocastanum. Sambucus nigra. Prunus spp.	Part of private property. In Exclusion Zone	No - further survey not required
2236	616374	223509	20/06/2022	Ross Lane	Carpinus betulus. Corylus avellana. Cornus sanguinea. Quercus robur. Malus sylvestris. Rubus fruticosus. Sorbus aucuparia. Ilex aquifolium. Tilia europaeus.	Mixed species tree group. Semi mature and occasional early mature tree. Dense understorey scrub layer	No - further survey not required
2238	616171	223557	20/06/2022	Ross Lane	Ilex aquifolium. Aesculus hippocastanum. Rubus fruticosus. Prunus spinosa. Quercus robur. Crataegus monogyna. Acer campestre. Pinus nigra.	Small early mature tree group. Minimal understorey. 20m gap to neighboring small tree group to NW	No - further survey not required
2246	618807	223660	13/06/2022	Patrick Davies	Quercus robur. Crataegus monogyna. Prunus spinosa. Acer pseudoplatanus. Sambucus nigra. Rubus fruticosus. Pinus sylvestris. Fraxinus excelsior. Ulmus minor.		No - further survey not required
2249	616469	223816	20/06/2022	Ross Lane	Rubus fruticosus. Pinus sylvestris. Prunus spinosa. Crataegus monogyna. Fraxinus excelsior. Quercus robur.	Habitat surrounded by single track roads. isolated but has potential. Mixed tree group with dense understorey	No - further survey not required

2260	616469	224042	20/06/2022	Ross Lane	Crataegus monogyna. Prunus spinosa. Acer platanoides. Acer campestre. Quercus robur. Rubus fruticosus. Sambucus nigra. Fraxinus excelsior. Hedera helix. Prunus avium.	Mature tree group with dense understorey. Road to SW. Partial connectivity to hedgerows N and E. Somewhat isolated habitat. In Exclusion Zone	No - further survey not required
2273	615901	224162	20/06/2022	Ross Lane	Castanea sativa. Juglans regia. Quercus robur. Taxus baccata. Tilia cordata. Corylus avellana. Rosa sp. Malus sylvestris. Carpinus betulus. Euonymus europaeus. Sorbus aria. Ilex aquifolium.	Nice mix of tree/hedge species. East Hedge 4-5m tall and 2.5m wide. East Tree group is early mature with dense connecting crowns but no understorey. Offers a mixed forage potential. Private land.	No - further survey not required
2317	615025	224874	20/06/2022	Ross Lane	Quercus robur. Fagus salivation. Ilex aquifolium. Corylus avellana. Crataegus monogyna. Rhododendron sp. Tilia europaeus.	Tall tree group with minimal understorey in garden area. Boundary hedges and vegetation show signs of previous coppicing/laying. Some connectivity along the water course. In Exclusion Zone	No - further survey not required
2321	615954	224730	20/06/2022	Ross Lane	Acer pseudoplatanus. Quercus robur. Sambucus nigra. Cornus alba. Acer campestre. Crataegus monogyna. Pinus nigra. Castanea sativa. Rubus fruticosus. Pinus sylvestris. Fraxinus excelsior.	Tall mature tree group with dense understorey of mixed shrub/saplings/ruderal growth. In Exclusion Zone	No - further survey not required
2325	614950	224980	13/06/2022	Patrick Davies	Prunus spinosa. Corylus avellana. Quercus robur. Sambucus nigra. Ilex aquifolium. Rubus fruticosus. Populus tremula. Acer campestre.		No - further survey not required

2332	614827	225289	13/06/2022	Patrick Davies	Castanea sativa. Quercus robur. Ilex aquifolium. Sambucus nigra. Corylus avellana. Crataegus monogyna. Rubus fruticosus. Fraxinus excelsior.	In Exclusion Zone	No - further survey not required
2338	614660	225515	13/06/2022	Patrick Davies	Quercus robur. Fraxinus excelsior. Crataegus monogyna. Sambucus nigra. Rubus fruticosus. Corylus avellana. Prunus spinosa. Rosa canina. Tila x europaea.		No - further survey not required
2357	614332	226073	13/06/2022	Patrick Davies	Quercus robur. Fraxinus excelsior. Crataegus monogyna. Acer campestre. Rubus fruticosus.		No - further survey not required
2399	613994	226736	20/06/2022	Ross Lane	Crataegus monogyna. Prunus spinosa. Rubus fruticosus. Quercus robur. Lonicera periclymenum.	Early mature tree group with dense blackthorn understorey. Gap in vegetation in the middle of polygon. Gap filled with ruderal growth. Splits the habitat connectivity West of shapefile.	No - further survey not required
2406	612496	226933	20/06/2022	Ross Lane	Sambucus nigra	Poor dormouse habitat. In Exclusion Zone	No - further survey not required
2411	612524	227024	20/06/2022	Ross Lane	Crataegus monogyna. Rubus fruticosus. Quercus robur.	Car park gravel hard standing alongside short hedgerow with 2 trees. In Exclusion Zone	No - further survey not required

2426	612388	227282	20/06/2022	Ross Lane	Crataegus monogyna. Quercus robur. Rubus fruticosus. Acer campestre. Fraxinus excelsior. Acer pseudoplatanus.	Survey if area falls in scope of effect for construction. Habitat reasonably isolated overall, connected by hedgerows to South and West. Offer minor habitat potential. In Exclusion Zone	No - further survey not required
2431	612423	227288	20/06/2022	Ross Lane	Prunus spinosa. Acer campestre. Quercus robur. Rubus fruticosus. Acer platanoides. Crataegus monogyna. Prunus avium.	Survey if area falls in scope of effect for construction. Offers minor potential. Taller tree group with good connected understorey layer. Habitat reasonably isolated overall. In Exclusion Zone	No - further survey not required
2450	612145	227595	20/06/2022	Ross Lane	Acer pseudoplatanus. Quercus robur. Prunus spinosa. Hedera helix. Syringa vulgaris. Taxus baccata. Carpinus betulus. Ilex aquifolium. Sambucus nigra. Prunus avium.	Dense tree group at roadside. Adjoins private residence land. In Exclusion Zone	No - further survey not required
2462	613338	227635	20/06/2022	Ross Lane	Aesculus hippocastanum. Rosa sp. Quercus robur. Acer campestre. Acer pseudoplatanus. Crataegus monogyna.	Early mature trees, patchy understorey of tall ruderal growth. Busy road to South. Agricultural fields to North. Reasonably isolated habitat but offers minor potential. In Exclusion Zone	No - further survey not required

2482	612102	227672	20/06/2022	Ross Lane	<i>Crataegus monogyna</i> . <i>Quercus Robur</i> . <i>Prunus avium</i> . <i>Rubus fruticosus</i> . <i>Acer pseudoplatanus</i> . <i>Ilex aquifolium</i> . <i>Hedera helix</i> .	Habitat appears moderate but tree group appears owned by private residence. Low connectivity outside of tree groups. In Exclusion Zone	No - further survey not required
2486	612342	227676	20/06/2022	Ross Lane	<i>Crataegus monogyna</i> . <i>Cornus alba</i> . <i>Prunus spinosa</i> . <i>Hedera helix</i> . <i>Acer campestre</i> . <i>Quercus robur</i>	Tall outer hedge tree/line with trees and shrubs in the centre. Fenced off and appears private land. In Exclusion Zone	No - further survey not required
2489	612381	227888	20/06/2022	Ross Lane	<i>Crataegus monogyna</i> . <i>Corylus avellana</i> . <i>Sambucus nigra</i> . <i>Prunus avium</i> . <i>Aesculus hippocastanum</i> . <i>Ligustrum vulgare</i> . <i>Rubus fruticosus</i> . <i>Castanea saliva</i> .	Large tree group with good understorey shrub layer. Dense growth. In Exclusion Zone	No - further survey not required
2494	611630	228092	20/06/2022	Ross Lane	None	Area of improved grassland, poor habitat. In Exclusion Zone	No - further survey not required
2500	612616	228184	20/06/2022	Ross Lane	<i>Prunus spinosa</i> . <i>Pinus sylvestris</i> . <i>Prunus avium</i> .	Large pine group with poor understorey. Occasional new plantings with tree guards present. In Exclusion Zone	No - further survey not required
99410	619928	220404	24/06/2022	Chloe Marzuoli	<i>Prunus spinosa</i> . <i>Rubus fruticosus</i> . <i>Quercus robur</i> . <i>Prunus avium</i> . <i>Fraxinus excelsior</i> . <i>Alnus glutinosa</i> .		Yes - further survey required
99503	617802	223072	30/06/2022	Patrick Davies	<i>Crataegus monogyna</i> . <i>Prunus spinosa</i> . <i>Acer campestre</i> . <i>Acer pseudoplatanus</i> . <i>Lonicera periclymenum</i> . <i>Quercus robur</i> . <i>Rubus fruticosus</i> . <i>Rosa canina</i> . <i>Sambucus</i>		Yes - further survey required

					nigra. Betula pendula. Ulmus minor. Fraxinus exc	
99509	616011	223986	28/06/2022	Ross Lane	Quercus robur. Acer campestre. Lonicera periclymenum. Sambucus nigra. Prunus spinosa. Rubus fruiticosus. Corylus avellana. Pinus sylvestris. Ilex aquifolium. Crataegus monogyna. Prunus avium. Castanea.	Yes - further survey required
99525	615405	225009	12/06/2022	Patrick Davies	Quercus robur. Fraxinus excelsior. Crataegus monogyna. Sambucus nigra. Rubus fruiticosus. Corylus avellana. Prunus spinosa. Acer pseudoplatanus. Salix spp. Alnus glutinosa. Acer campestre.	Yes - further survey required

APPENDIX C: Survey Metadata

99075			
Survey number	Date	Weather conditions	Dormice / evidence found
1	27.05.22	16°C. Sunny, dry with light breeze	N
2	16.06.22	21°C. Sunny, dry with light breeze	N
3	25.07.22	24°C. Sunny intervals, strong breeze, 70% cloud cover	N
4	15.08.22	27°C. Light breeze, cloud cover 70%	N
5	26.09.22	13°C. Changeable, light rain, strong breeze	N
6	29.10.22	18°C. Sunny intervals, moderate breeze, cloud cover 80%	N
7	20.11.22	10°C. Rain before survey, moderate breeze	Y

99079			
Survey number	Date	Weather conditions	Dormice / evidence found
1	11.05.22	16°C. Sunny/ dry/ light breeze	N
2	17.06.22	25°C. Sunny/ dry/ light breeze	N
3	25.07.22	24°C. Strong breeze/ humid/ cloud cover 60%	N
4	15.08.22	28°C. no breeze/ cloud cover 90 %	N
5	26.09.22	13°C. Changeable/ light on off rain/ cloud cover 90%	Y
6	28.10.22	20°C. Moderate breeze/ cloud cover 20%	Y
7	30.11.22	8°C. Cold, light breeze.	Y

99085			
Survey number	Date	Weather conditions	Dormice / evidence found
1	11.05.22	16°C. Sunny/ dry/ light breeze	N
2	17.06.22	25°C. Sunny/ dry/ light breeze	N
3	25.07.22	24°C. strong breeze/ cloud cover 60%	Y
4	15.08.22	25°C. light breeze/ cloud cover 60%	Y
5	26.09.22	13°C. Changeable/ very windy with light rain on and off	Y
6	28.10.22	20°C. Sunny/ moderate breeze/ cloud cover 20%	Y
7	30.11.22	9°C. Cold, light breeze.	Y

99089			
Survey number	Date	Weather conditions	Dormice/evidence found
1	11.05.22	16°C. Sunny, dry, light breeze	N
2	16.06.22	21°C. Sunny, dry, light breeze	N
3	25.07.22	24°C. Sunny intervals, strong breeze, cloud cover 70%	N
4	15.08.22	27°C. light breeze, cloud cover 70 %	N
5	26.09.22	14°C. Changeable, light rain, very windy, cloud cover 60%	N
6	29.10.22	18°C. Overcast, moderate breeze, cloud cover 80%	N
7	20.11.22	10°C. Rain prior to survey, moderate breeze.	N

99136			
Survey number	Date	Weather conditions	Dormice/evidence found
1	16.08.22	22°C. Light rain/ moderate breeze/ cloud cover 80%	Y
2	30.09.22	12°C. Sunny spells/ light breeze/ cloud cover 80%	Y
3	28.10.22	18°C. Sunny/ light breeze/ rain overnight	Y
4	29.11.22	10°C. Light cold breeze, cloud cover 50%.	Y

99149			
Survey number	Date	Weather conditions	Dormice/evidence found
1	10.05.22	15°C. Sunny/ dry/ light breeze	N
2	14.06.22	20°C. Sunny/ dry/ light breeze	Y
3	15.07.22	23°C. Sunny/ light breeze/ cloud cover 5%	Y
4	16.08.22	23°C. light breeze/ dry/ cloud cover 90%,	Y
5	27.09.22	11°C. Cold wind/ cloud cover 80%	Y
6	27.10.22	18°C. Sunny/ light breeze/ cloud cover 5%	Y
7	30.11.22	10°C. Light breeze, cloud cover 70%	Y

99154			
Survey number	Date	Weather conditions	Dormice/evidence found
1	10.05.22	13°C. Sunny/ dry/ light breeze	N
2	14.06.22	22°C. Sunny/ dry/ light breeze	N
3	15.07.22	23°C. Sunny/ light breeze/ cloud cover 20%,	N
4	16.08.22	24°C. Light breeze/ cloud cover 70%	N
5	27.09.22	11°C. Cloud cover 70%	Y
6	27.10.22	15°C. Moderate breeze/ light rain before survey	Y
7	30.11.22	11°C. Light breeze, cloud cover 80%	Y

99155			
Survey number	Date	Weather conditions	Dormice/evidence found
1	30.06.22	19°C. Sunny spells/ dry/ slight breeze/ cloud cover 60%	N
2	15.07.22	23°C. Sunny/ slight breeze/ cloud cover 20%,	N
3	16.08.22	24°C. Light breeze/ cloud cover 70%	N
4	27.09.22	11°C. Strong wind/ cloud cover 60%	Y
5	27.10.22	15°C. Sunny/ moderate breeze/ light rain before survey/ cloud cover 30%	Y
6	30.11.22	11°C. Light breeze, cloud cover 80%	Y

99156			
Survey number	Date	Weather conditions	Dormice/evidence found
1	30.06.22	19°C. Sunny spells/dry/ slight breeze/ cloud cover 80%	N
2	15.07.22	23°C. Sunny/ slight breeze/ cloud cover 20%,	N
3	16.08.22	24°C. Light breeze/ cloud cover 70%	N
4	27.09.22	13°C. Light breeze/ cloud cover 40%	N

5	27.10.22	15°C. Sunny/ moderate breeze/ light rain before survey/ cloud cover 30%	N
6	30.11.22	10°C. Light breeze, cloud cover 80%	N

99221			
Survey number	Date	Weather conditions	Dormice/evidence found
1	26.05.22	16°C. Sunny/ dry with light breeze	N
2	15.06.22	23°C. Very sunny with no cloud cover/ dry with light breeze	N
3	28.07.22	22°C. Moderate breeze/ 60% cloud cover	Y
4	16.08.22	25°C. Light rain/ light breeze/ cloud cover 90%	Y
5	30.09.22	9°C. Cool breeze/ very misty	Y
6	31.10.22	17°C. Moderate breeze/ light rain before survey/ cloud cover 80%	Y
7	29.11.22	8°C. Light breeze, cloud cover 70%	Y

99041			
Survey number	Date	Weather conditions	Dormice/evidence found
1	11.05.22	16°C. Sunny/ dry/ light breeze	N
2	17.06.22	25°C. Sunny/ dry/ light breeze	N
3	25.07.22	24°C. Sunny/ strong breeze	N
4	15.08.22	25°C. Light breeze/ cloud cover 70%	N
5	26.09.22	13°C. Changeable/ on off light rain/ cloud cover 90%	N
6	28.10.22	20°C. Sunny/ moderate breeze/ cloud cover 20%	N
7	30.11.22	8°C. Cold light breeze, cloud cover 90%, light rain	N

99410			
Survey number	Date	Weather conditions	Dormice/evidence found
1	27.05.22	15°C. Sunny/ dry/ light breeze	N
2	17.06.22	25°C. Sunny/ dry/ light breeze	N
3	28.07.22	22°C. Moderate breeze/ cloud cover 50%	N
4	31.08.22	21°C. Sunny/ dry/moderate breeze	N
5	26.09.22	13°C. Changeable/ moderate wind/ cloud starting at 70%	Y
6	28.10.22	18°C. Light breeze/ overnight rain/ cloud cover 0%	Y
7	30.11.22	9°C. Light breeze, cloud cover 80%	Y

99503			
Survey number	Date	Weather conditions	Dormice/evidence found
1	30.05.22	15°C. Sunny/ dry/ light breeze	N
2	16.06.22	21°C. Sunny/ dry/ light breeze	N
3	29.07.22	24°C. Moderate breeze/ cloud cover 80%	N
4	18.08.22	23°C. Moderate breeze/ cloud cover 40%	N
5	28.09.22	14°C. Sunny/ dry/ moderate breeze/ cloud cover 50%	Y
6	28.11.22	10°C. Sunny, light breeze, cloud cover 5%	Y

99509			
Survey number	Date	Weather conditions	Dormice/evidence found
1	26.05.22	15°C. Sunny/ dry/ light breeze	N
2	14.06.22	19°C. Sunny/ dry/ light breeze	N
3	29.07.22	24°C. Moderate breeze/ cloud cover 80%	N
4	19.08.22	26°C. Light breeze/ cloud cover 40%	N
5	30.09.22	9°C. Misty/ light breeze	Y
6	31.10.22	16°C. Light breeze/ cloud cover 70%	Y
7	29.11.22	9°C. Light breeze, cloud cover 80%	Y

99525			
Survey number	Date	Weather conditions	Dormice/evidence found
1	10.05.22	15°C. Sunny/ dry/ light breeze	N
2	14.06.22	21°C. Sunny/ dry/ light breeze	N
3	13.07.22	25°C. Sunny/ cloud cover 20%	N
4	31.08.22	23°C. Sunny/ dry/ moderate breeze	N
5	13.09.22	17°C. Sunny spells/ moderate breeze/ cloud cover 40%	N
6	31.10.22	16°C. Light rain/ moderate breeze/ cloud cover 90%	N
7	29.11.22	8°C. Light breeze, misty. Cloud cover 80%	N

2047			
Survey number	Date	Weather conditions	Dormice/evidence found
1	31.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	16.06.22	21°C. Sunny/ dry/ moderate breeze	N
3	25.07.22	24°C. Strong breeze/ cloud cover 60%, sunny intervals	N
4	15.08.22	25°C. Light breeze/ cloud cover 80%,	Y
5	20.11.22	10°C. Rain on and off during survey, moderate breeze. Cloud cover 100%	N

2174			
Survey number	Date	Weather conditions	Dormice/evidence found
1	31.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	13.06.22	19°C. Sunny/ dry/ light breeze/ cloud cover 30%	N
3	28.07.22	23°C. Moderate breeze/ cloud cover 60%	N
4	19.08.22	26°C. Light breeze/ cloud cover 80%,	N
5	12.09.22	22°C. Dry/slight breeze/ cloud cover 80%	N
6	27.10.22	15°C. Moderate breeze, cloud cover 60%	N
7	20.11.22	10°C. Rain on and off during survey, moderate breeze. Cloud cover 100%	N

2196			
Survey number	Date	Weather conditions	Dormice/evidence found
1	30.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	16.06.22	21°C. Sunny/ dry/ moderate breeze	N
3	29.07.22	24°C. Moderate breeze/ cloud cover 80%	N
4	18.08.22	24°C. Moderate breeze/ humid/ Cloud cover 60%	Y
5	28.09.22	14°C. Sunny/ moderate breeze/ dry	Y
6	29.10.22	18°C. Sunny intervals/ moderate breeze/ cloud cover 90%	Y
7	28.11.22	10 °C. Sunny, light breeze. Cloud cover 5%	Y


2204			
Survey number	Date	Weather conditions	Dormice/evidence found
1	31.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	13.06.22	19°C. Sunny/ dry/ moderate breeze/ cloud cover 30%	N
3	28.07.22	23°C. Moderate breeze/ cloud cover 60%	N
4	19.08.22	23°C. Moderate breeze/ cloud cover 90%	N
5	12.09.22	22°C. Dry/ slight breeze/ cloud cover 80%,	N
6	27.10.22	15°C. Overcast/ light breeze/ cloud cover 90%,	Y
7	20.11.22	9°C. Rain on and off during survey. Moderate breeze, cloud cover 100%.	N

2250			
Survey number	Date	Weather conditions	Dormice/evidence found
1	31.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	13.06.22	19°C. Sunny/ dry/ moderate breeze/ cloud cover 30%	N
3	28.07.22	23°C. Light rain/ no breeze/ cloud cover 90%	N
4	19.08.22	23°C. Moderate breeze/ cloud cover 90%	N





2278			
Survey number	Date	Weather conditions	Dormice/evidence found
1	30.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	13.06.22	22°C. Sunny/ dry/ moderate breeze/ cloud cover 20%	N
3	16.08.22	23°C. Light rain/ no breeze/ cloud cover 90%	Y
4	27.09.22	13°C. Sunny/ moderate wind	Y
5	27.10.22	19°C. Sunny/ light breeze/ cloud cover 20%/ earlier rain	Y
6	29.11.22	10°C. Light breeze, cloud cover 50%	Y

2345			
Survey number	Date	Weather conditions	Dormice/evidence found
1	30.05.22	15°C. Sunny/ dry/ moderate breeze	N
2	17.06.22	25°C. Sunny/ dry/ moderate breeze	N
3	13.07.22	25°C. Sunny, cloud cover 20%	N
4	31.08.22	24°C. Dry, moderate breeze, sunny	N





APPENDIX D: Survey Photographs

Survey Site	Month	Photo(s)	Description
99085	July		1 female adult, 4 juveniles, nest
	October		Nest, no animal present
99136	August	  	4x nests with no animal present. Single adult escaped on approach to one nest.

Survey Site	Month	Photo(s)	Description
			
	September		1x female adult, 1x nest with no animal present.
99149	July		1x other small mammal nest. 1x nest with female juvenile dormouse. 1x nest with escaped adult.

Survey Site	Month	Photo(s)	Description
			
	August		2x dormouse nests with no animal present.
	September		Dormouse nest with no animal present.
99154	September		Dormouse nest with no animal present.







Survey Site	Month	Photo(s)	Description
	October		Dormouse nest with no animal present.
99155	September	   	1x dormouse nest with other small mammal food cache. 1x beginning of nest with stripped bark. 1x dormouse nest with no animal present. 1x male adult.
	October	 	1x nest with 3 escaped juveniles. 1x male adult. 1x dormouse nest with no animal present. 1x juvenile.

Survey Site	Month	Photo(s)	Description
			
99221	July		Dormouse nest with no animal present.
	August		Dormouse nest with no animal present.
	September		3x dormouse nests with no animals present.

Survey Site	Month	Photo(s)	Description
			
99410	October		2x juveniles in box with nest.



LEGEND

-  VE Onshore Cable Route
-  100m Buffer
- Dormouse Survey Areas**
-  Confirmed Presence
-  Confirmed Presence
-  Likely Absence
-  Descoped

DORMOUSE SURVEY AREAS
FIGURE 1.1

PROJECT TITLE:
 Five Estuaries Offshore
 Wind Farm

CLIENT:
 Royal HaskoningDHV

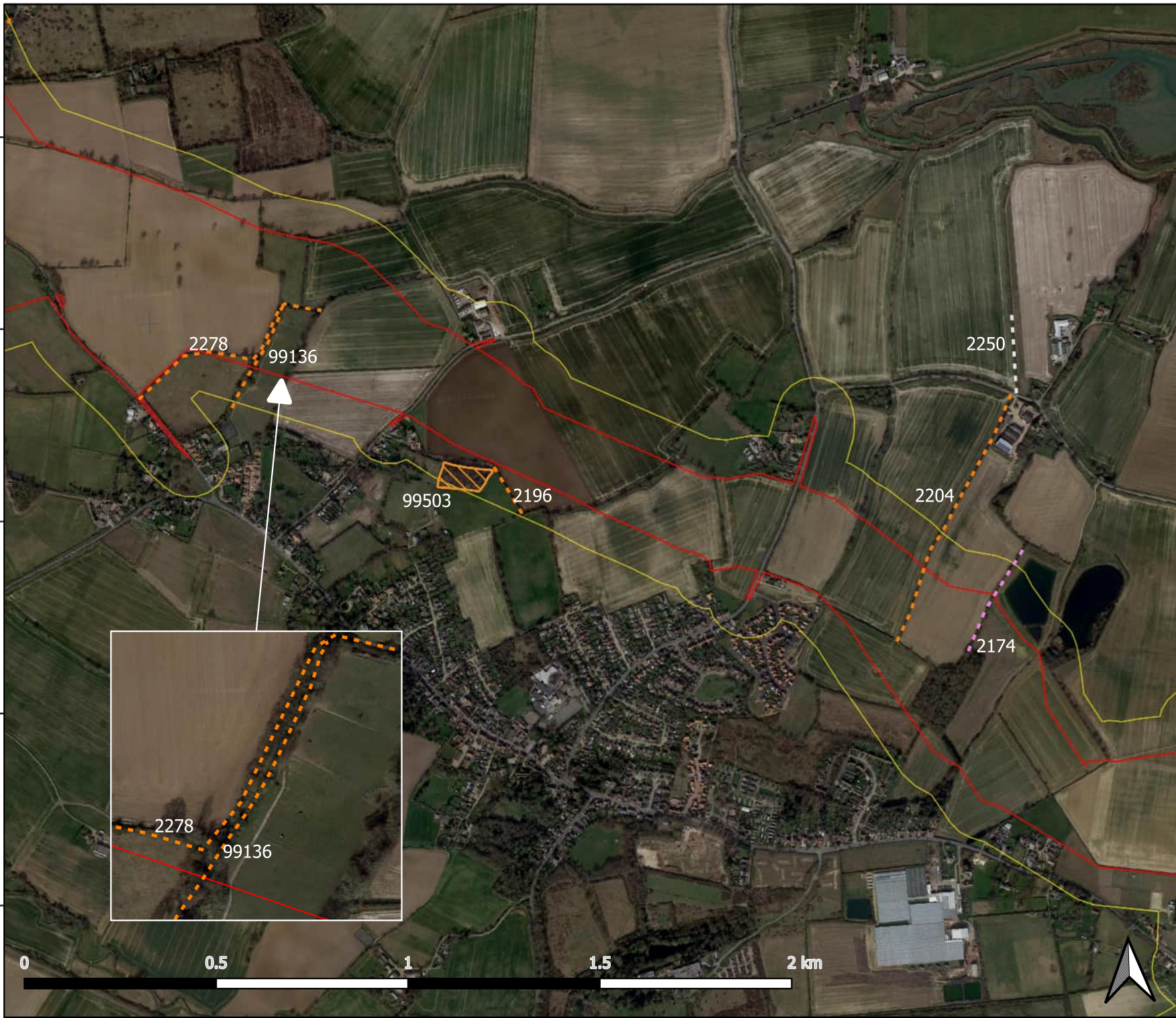
DATE:
 24.01.2023

PRODUCED BY:
 J. McMahon






REF: 22043



ECOLOGY
 RESOURCES



LEGEND

-  VE Onshore Cable Route
-  100m Buffer
- Dormouse Survey Areas**
-  Confirmed Presence
-  Likely Absence
-  Descoped

DORMOUSE SURVEY AREAS
FIGURE 1.2

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
24.01.2023

PRODUCED BY:
J. McMahon








REF: 22043



ECOLOGY
RESOURCES



LEGEND

-  VE Onshore Cable Route
-  100m Buffer
- DORMOUSE SURVEY AREAS**
-  Confirmed Presence
-  Confirmed Presence
-  Likely Absence
-  Likely Absence
-  Descoped

DORMOUSE SURVEY AREAS
FIGURE 1.3

PROJECT TITLE:
 Five Estuaries Offshore
 Wind Farm

CLIENT:
 Royal HaskoningDHV

DATE:
 24.01.2023

PRODUCED BY:
 J. McMahon

REF: 22043



ECOLOGY
 RESOURCES



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Tube Locations
 - Adults/Juveniles Present
 - Nest only
 - Nil
- Dormouse Survey Areas
 - Confirmed Presence
 - Likely Absence
 - Descoped

**DORMOUSE SURVEY RESULTS
FIGURE 2.1**

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

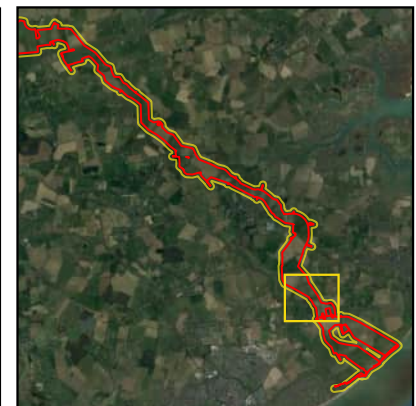
DATE:
24.01.2023

PRODUCED BY:
J. McMahon

REF: 22043



**ECOLOGY
RESOURCES**



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Tube Locations**
- Adults/Juveniles Present
- Nest only
- Nil
- Dormouse Survey Areas**
- - - Confirmed Presence
- - - Likely Absence

**DORMOUSE SURVEY RESULTS
FIGURE 2.2**

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
24.01.2023

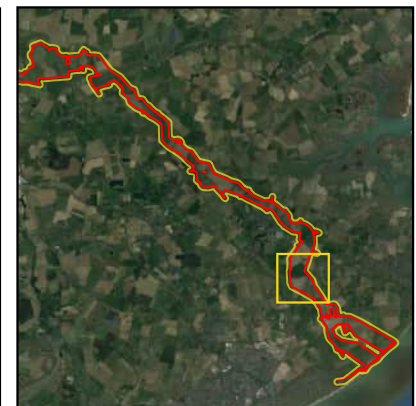
PRODUCED BY:
J. McMahon

REF: 22043









**ECOLOGY
RESOURCES**





LEGEND

-  VE Onshore Cable Route
-  100m Buffer
- Box Locations
 -  Adults/Juveniles Present
 -  Nest only
 -  Nil
- Dormouse Survey Areas
 -  Confirmed Presence

**DORMOUSE SURVEY RESULTS
FIGURE 2.3**

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
24.01.2023

PRODUCED BY:
J. McMahon

REF: 22043



**ECOLOGY
RESOURCES**



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Tube Locations
 - Nest only
 - Nil
- Dormouse Survey Areas
 - Confirmed Presence
 - Likely Absence
 - Descoped

**DORMOUSE SURVEY RESULTS
FIGURE 2.4**

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

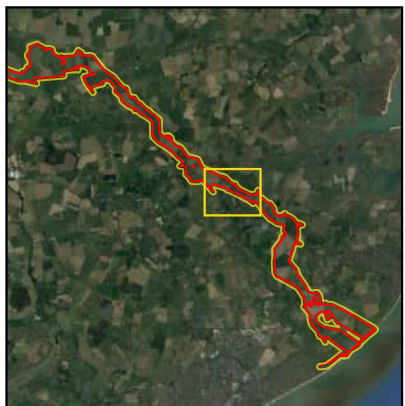
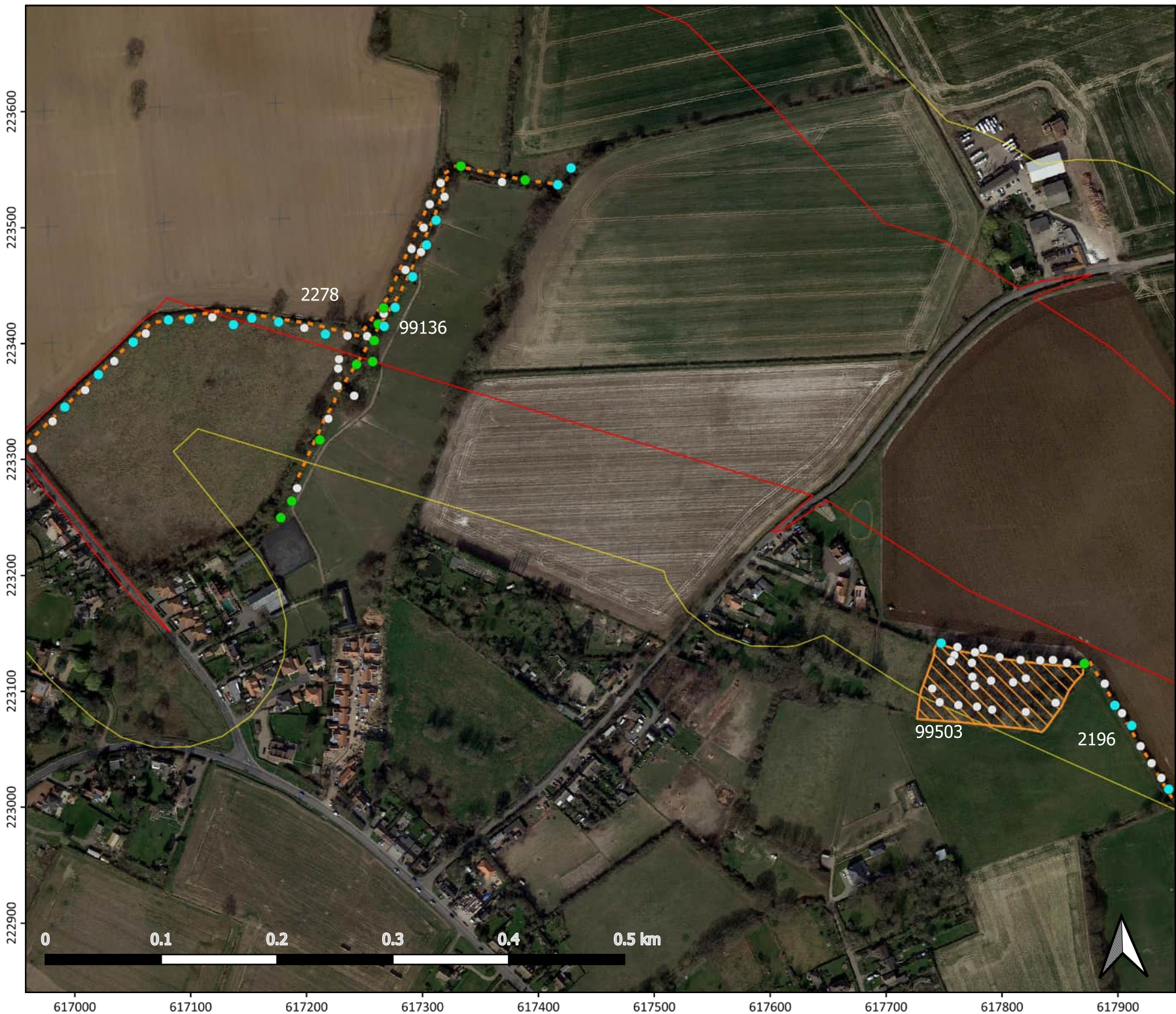
DATE:
06.12.2022

PRODUCED BY:
J. McMahon

REF: 22043



**ECOLOGY
RESOURCES**



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Box/Tube Locations**
- Adults/Juveniles Present
- Nest only
- Nil
- Dormouse Survey Areas**
- Confirmed Presence
- Confirmed Presence

**DORMOUSE SURVEY RESULTS
FIGURE 2.5**

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
24.01.2023

PRODUCED BY:
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**ECOLOGY
RESOURCES**



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Box/Tube Locations**
- Adults/Juveniles Present
- Nest only
- Nil
- Dormouse Survey Areas**
- Confirmed Presence
- Likely Absence

DORMOUSE SURVEY RESULTS
FIGURE 2.6

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
24.01.2023

PRODUCED BY:
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ECOLOGY
RESOURCES



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Box/Tube Locations
 - Nil
- Dormouse Survey Areas
 - Likely Absence
 - Descoped

**DORMOUSE SURVEY RESULTS
FIGURE 2.7**

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
24.01.2023

PRODUCED BY:
J. McMahon

REF: 22043



**ECOLOGY
RESOURCES**



LEGEND

- VE Onshore Cable Route
- 100m Buffer
- Box/Tube Locations
- Nil
- Descoped

DORMOUSE SURVEY
RESULTS
FIGURE 2.8

PROJECT TITLE:
Five Estuaries Offshore
Wind Farm

CLIENT:
Royal HaskoningDHV

DATE:
04.01.2023

PRODUCED BY:
J. McMahon

REF: 22043



ECOLOGY
RESOURCES



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Registered in England and Wales
company number 12292474

