A46 Coventry Junctions (Walsgrave) Scheme numberTR010066

6.3 Environmental Statement Appendices

Appendix 8.5 Bat Roost Report

APFP Regulations 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6

November 2024

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

A46 Coventry Junctions (Walsgrave)
Development Consent Order 202[x]

ENVIRONMENTAL STATEMENT APPENDICES
Appendix 8.5 Bat Roost Report

Regulation Number	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010066
Application Document Reference	TR010066/APP/6.3
Author	A46 Coventry Junctions (Walsgrave), Project Team & National Highways

Version	Date	Status of Version
Rev 0	November 2024	Application Issue

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1. Introduction

1.1. Scheme overview

1.1.1. The A46 is part of the strategic road network forming a significant trade and export route between the east and west Midlands. As part of the Government's Road Investment Strategy (RIS2) 2020-2025, the A46 Walsgrave junction is being improved with the realignment of the carriageway and a new grade separated junction (the 'Scheme'). This aims to increase the roads capacity to cater for future developments across the region and promote safety by separating local and long-distance traffic and reducing congestion.

1.1.2. The bat roost surveys detailed within this report were undertaken in advance of the commencement of preliminary design and as such the surveys were based upon the Scheme design as it was at the end of the option selection stage.

1.1.3. Sweco were commissioned by Octavius Infrastructure on behalf of National Highways to undertake bat roost surveys for the Scheme.

1.2. Site description

1.2.1. The Scheme comprises an area of approximately 25ha of natural habitat located to the east of Coventry (Figure 1).

1.2.2. The habitats within the Scheme comprise woodland, scrub, arable farmland and hedgerows.

1.3. Previous surveys

1.3.1. Surveys previously undertaken in relation to bats and reported on within the Environmental Assessment Report (EAR) (National Highways, 2022) include a desk study undertaken in 2020 which identified no Special Areas for Conservation (SACs) designated for bats within 30km of the site. The desk study included the purchase of species records within 2km of the site from Warwickshire Biological Records Centre (WBRC). There were records returned for:

- common pipistrelle *Pipistrellus pipistrellus*
- soprano pipistrelle *Pipistrellus pygmaeus*
- Nathusius' pipistrelle *Pipistrellus nathusii*
- brown long-eared bat *Plecotus auritus*
- Daubenton's bat *Myotis daubentonii*

- Natterer's bat *Myotis nattereri*
- noctule bat *Nyctalus noctula*
- serotine bat *Eptesicus serotinus*
- whiskered bat *Myotis mystacinus*.

1.3.2. Additionally, the desk study reported a record of a roost located at national grid reference (NGR) SP 38500 79500 which is approximately 35m east of Hungerley Hall Farm. There was no further information provided on the type of roost or which species inhabited it

1.4. Purpose

1.4.1. This bat roost report has been prepared by Sweco for National Highways and will be used to inform the Environmental Statement (ES) biodiversity chapter at preliminary design for the Scheme.

1.4.2. All bats are protected in the UK under the Conservation of Habitats and Species Regulations 2017 (as amended), as European protected species (EPS), and Schedule 5 of the Wildlife & Countryside Act 1981 (as amended).

1.4.3. The report details bat summer roost surveys undertaken between March and September 2022. Trees that were identified as having hibernation potential during the tree climbing inspection surveys will require further surveys with the results detailed in a separate report to follow.

2. Methodology

2.1. Survey area

2.1.1. Surveys were undertaken in accordance with current guidance (Collins, 2016).

2.1.2. All trees, buildings and structures within the Scheme plus a 50m buffer, hereafter collectively referred to as 'the survey area' (see Figure 1), were subject to ground level preliminary roost assessments (PRAs). Following this initial survey, tree climbing inspections and subsequent emergence/re-entry surveys were undertaken for all suitable trees, buildings and structures within the survey area. Trees with bat roost potential present within the woodland north of Coombe Pool which are within 50m of a proposed woodland planting area were not surveyed beyond the initial PRAs (see Appendix A) as no impacts are anticipated.

2.2. Ground level PRAs

2.2.1. PRAs were undertaken to identify potential roost features (PRFs) in trees and buildings/structures within the survey area between 21 and 30 March 2022. A high-powered torch and close-focussing binoculars were used to assess PRFs at height. Surveys were conducted in daylight hours and all aspects of the trees and buildings/structures were assessed, where possible, searching for evidence indicating the current or historical use by roosting bats, such as droppings, scratches and urine staining.

Table 1 Bat roost grading criteria for structures and trees (adapted from Collins, 2016)

Roost suitability	Description of roosting habitat
Negligible	Negligible habitat features on site likely to be used by roosting bats.
Low	A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (which means they are unlikely to be suitable for maternity or hibernation). A tree of sufficient size and age to contain PRFs but with none seen from the ground or features seen with only very limited roosting potential.
Moderate	A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments made in this table are made irrespective of species conservation status, which is established after presence is confirmed).
High	A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.

Roost suitability	Description of roosting habitat
Confirmed roost	Evidence of current or historical use of structure or tree by bats, such as live/dead bats, droppings, urine staining, feeding remains.

2.2.2. Where PRFs were observed, details of the tree (species, height, diameter at breast height (DBH) and grid reference) or building/structure were recorded, as well as PRF details (external dimensions, height, location, orientation, description and photographs). Examples of PRFs in trees include woodpecker holes, knot holes, hazard beams, cracks and splits, cankers, butt-rots and dense ivy *Hedera* sp. plates. PRFs which may be identified on buildings/structures include, but are not limited to, lifted rendering, hanging/damaged tiles, access points behind eaves, soffit boxes, fascia and lead flashing and existing bat boxes.

2.2.3. Trees and buildings/structures were initially categorised in terms of their bat roost potential (BRP) in accordance with Collins (2016) and the categories in Table 1 above.

2.3. Tree climbing inspections

2.3.1. Tree climbing inspections were undertaken on trees identified as having moderate or high BRP following the ground level PRA surveys (Figure 1). Tree climbing inspections took place between 6 and 10 June 2022 and were undertaken by Derbyshire Ecologist (Derbyshire Ecologist, 2022).

2.3.2. Trees were re-categorised following the tree climbing inspection based on the location, type and condition of PRFs in accordance with Collins (2016). Full details of the tree climbing methodology are included within the Bat Tree Inspection Report A46 Walsgrave ((Ref: DE00062/01/ii) Derbyshire Ecologist, 2022) in Appendix B.

2.4. Emergence / re-entry surveys

2.4.1. Emergence and re-entry roost surveys were undertaken following ground-level PRAs and tree climbing inspections in accordance with survey effort detailed within Collins (2016) and Table 2 below. Surveys were undertaken between 17 May 2022 and 14 September 2022. The surveyors used Elekon Batlogger M2 devices to record echolocation sounds.

Table 2 Survey effort for trees and structures dependent on roost suitability, adapted from Collins (2016)

Roost suitability	Description of roosting habitat
Negligible	No further survey required
Low	Structures – one survey visit. One dusk emergence or dawn re-entry survey. Trees – no further survey required.
Moderate	Two separate surveys required, including one dusk emergence and one dawn re-entry.
High	Three surveys required, including at least one dusk emergence and at least one dawn re-entry.
Confirmed roost	

2.4.2. Due to time constraints imposed upon the surveys associated with both the bat survey season and scheme-specific timeframes, a number of dusk emergence / dawn re-entry roost surveys were undertaken in advance of the tree climbing inspections, based on the ground level PRAs.

2.5. Limitations

2.5.1. Due to safety concerns, internal and close external access to the farm buildings and the courtyards between the buildings at Hungerley Hall Farm was not granted. As such, detailed external and internal inspections were not possible. Therefore, three surveys of the entire farm building complex were undertaken from a safe distance. There were limitations associated with surveying the building complex from four external locations which pertain to the lack of observation of numerous aspects of the buildings. Additionally, the surveyor on the west corner of the building complex, observing buildings including B2 and B3, was located a significant distance (approximately 33m) from the buildings due to the presence of a cattle herd in the adjacent field, and as such visual observation, and automatic recording, of bats near the buildings was significantly impaired (Figure 1). The limitations associated with surveying this farm building complex have been accounted for in the recommendations.

2.5.2. The survey of Tree 22 undertaken on 18 May 2022 was undertaken in suboptimal conditions with moderate rain throughout and lightning at 22.20, nine minutes before the end of the survey. However, as bat activity was recorded during the survey, including foraging activity, and the second survey on 23 June 2022 was undertaken within suitable conditions this is not considered a significant limitation.

2.5.3. Guidelines recommend that where two emergence/re-entry surveys are undertaken one is a dusk emergence and one a dawn re-entry survey (Collins,

2016). However, Tree 33 has been subject to two dawn re-entry surveys (see Table 3). Whilst this is not in accordance with guidelines it is not considered a significant limitation to surveys of T33 as two full surveys have been undertaken in appropriate conditions. Furthermore, dawn surveys are often more likely to identify roosts in trees due to the increased visibility at dawn and the behaviours of bats around a roost before re-entry.

3. Results

3.1. Ground level PRAs

3.1.1. The ground level PRAs identified the following within the survey area; three trees with high BRP, 36 trees with moderate BRP and 119 trees with low BRP. Additionally, one area of immature sycamore *Acer psuedoplatanus* trees (tree area 1) with a cover of ivy providing low BRP was identified within Coombe Park woodland (location shown on figure 1). A further fourteen trees across the entire survey area were inspected closely and found to have, as with the remaining trees in the survey area, negligible potential.

3.1.2. The Hungerley Hall Farm overpass (overpass 1) and the Walsgrave Farm overpass (overpass 2) north of the A46 Walsgrave junction (see Appendix A) were assessed as having negligible potential for roosting bats. These structures are concrete bridges over the A46 carriageway with no potential roost features (PRFs) noted.

3.1.3. It was not possible to subject the buildings at Hungerley Hall Farm to ground level PRAs due to access restrictions (see section 2.5.1). No further buildings are present within the survey area.

3.2. Tree climbing inspections

3.2.1. The tree climbing inspections identified the following:

- three trees with high BRP (T22, T114 and T152)
- 11 trees with moderate BRP (T10, T11, T26, T29, T33, T34, T103, T111, T139, T146 and T153)
- three trees with low BRP (T9, T18 and T143)
- one tree with negligible BRP (T127)

3.2.2. Two trees (T33 and T34) were not fully assessed due to health and safety issues and as such were subject to two emergence/re-entry surveys in accordance with their ground-level PRA assessment of moderate roost suitability. The tree climbing inspections identified no bat roosts (via the presence of bats or direct roost evidence), however recommendations for further surveys were made and surveys undertaken.

3.2.3. Recommendations following the tree climbing inspections were for emergence/re-entry roost surveys of 12 trees (T11, T22, T26, T29, T33 and T34 (due to an incomplete aerial assessment), T103, T111, T114, T139, T146 and T153) and one further endoscope inspection of T10 on which all PRF's are visible from ground-level.

3.2.4. See *Bat Tree Inspection Report A46, Walsgrave* (Derbyshire Ecologist, 2022) in Appendix B for full results and recommendations from the aerial assessments, including descriptions of PRFs on each of the trees subject to emergence/re-entry surveys (see Table 3 and section 3.4).

3.3. Ground-level PRAs and tree climbing summary results

3.3.1. Table 3 shows a summary of surveys undertaken at each tree within the survey area. See Appendix A for a visual representation of survey results.

Table 3 Summary of ground-level PRA and tree climbing results, and emergence re-entry surveys undertaken

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
1	SP 38678 78463	Low		
2 & 3	SP 38680 78508			
4	SP 3854 178677			
5	SP 38306 79190	Negligible		
6	SP 38036 79354	Low		
7	SP 38042 79345			
8	SP 38059 79317			
9	SP 38061 79306	Moderate	Low (no further survey required)	
10	SP 38334 79023	Moderate	Moderate (one further survey required)	Dawn re-entry survey on 23 June 2022
11	SP 38276 79236	High	Moderate (one further survey required)	Dusk emergence survey on 17 May 2022
12	SP 38167 79273	Low		
13	SP 38066 79308			
14	SP 38068 79317			
15	SP 38064 79328			
16	SP 38065 79329			
17	SP 38785 79912			
18	SP 38673 79585	Moderate	Low (no further survey required)	
19	SP 38732 79592	Low		
20	SP 38650 79878			
21	SP 38646 79881			
22	SP 38664 79876	Moderate	High **(including hibernation potential in one potential roost feature (PRF)** (two further surveys required))	Dusk emergence survey on 18 May 2022 Dawn re-entry survey on 23 June 2022
23	SP 38591 79887	Negligible		
24	SP 38585 79901	Low		
25	SP 38955 80688			

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
26	SP 38118 79411	Moderate	Moderate (one further survey required)	Dawn re-entry survey on 18 May 2022
27	SP 38223 79402	Low		
28	SP 38117 79480			
29	SP 38352 79583	Moderate	Moderate (one further survey required)	Dawn re-entry survey on 18 May 2022
30	SP 38360 79629	Low		
31	SP 38378 79665			
32	SP 38395 79699			
33	SP 38393 79715	Moderate	Moderate (tree was not fully inspected (see section 3.2.2))	Dawn re-entry survey on 19 May 2022 Dawn re-entry survey on 26 July 2022
34	SP 38422 79742	Moderate	Moderate (tree was not fully inspected (see section 3.2.2))	Dusk emergence survey on 19 May 2022 Dawn re-entry survey on 26 July 2022
35	SP 38428 79830	Low		
36	SP 38434 79840			
37	SP 38625 79697	Negligible		
38	SP 38471 79612	Low		
39	SP 38444 79441			
40	SP 38449 79441			
41	SP 38425 79428			
42	SP 38934 79440	Moderate	Tree scoped out from climbed inspection due to being within 50m of compensatory planting works only (see section 4.2.4).	
43	SP 38923 79462	Low		
44	SP 38925 79447			
45	SP 38895 79436	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
46	SP 38897 79424	Low		
47	SP 38892 79460			

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
48	SP 38896 79459			
49	SP 38888 79450	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
50	SP 38878 79458	Low		
51	SP 38873 79465	Moderate	Trees scoped out due to being within 50m of compensatory planting works only (see Section 4.2.4).	
52	SP 38873 79435			
53	SP 38875 79444	Low		
54	SP 38861 79421			
55	SP 38852 79432	Moderate	Trees scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
56	SP 38847 79458			
57	SP 38838 79446	Low		
58	SP 38836 79441			
59	SP 38834 79446			
60	SP 38835 79445	Negligible		
61	SP 38833 79442	Low		
62	SP 38815 79441	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
63	SP 38807 79448	Low		
64	SP 38786 79444			
65	SP 38789 79439			
66	SP 38782 79448			
67	SP 38778 79430			
68	SP 38781 79444			
69	SP 38774 79446			
70	SP 38794 79407	High	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
71	SP 38791 79408	Low		
72	SP 38780 79409	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
73	SP 38756 79416	Negligible		
74	SP 38754 79417	Low		
75	SP 38758 79428	High		

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
76	SP 38747 79418	Moderate	Trees scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
77	SP 38768 79435	Low		
78	SP 38736 79444			
79	SP 38720 79437	Negligible		
80	SP 38702 79439	Low		
81	SP 38695 79434	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
82	SP 38684 79438	Low		
83	SP 38681 79424			
84	SP 38660 79419			
85	SP 38693 79407	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
86	SP 38700 79418	Low		
87	SP 38707 79420	Moderate	Trees scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
88	SP 38656 79427			
89	SP 38648 79422	Low		
90	SP 38650 79414			
91	SP 38624 79408	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
92	SP 38614 79390	Low		
93	SP 38584 79401			
94	SP 38587 79386			
95	SP 38577 79389			
96	SP 38568 79394			
97	SP 38560 79381	Negligible		
98	SP 38557 79376	Low		
99	SP 38553 79372	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
100	SP 38543 79372	Low		
101	SP 38536 79370			
102	SP 38525 79367			

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
103	SP 38518 79365	Moderate	Moderate (one further survey required)	Dusk emergence survey on 22 June 2022
104	SP 38493 79350	Low		
105	SP 38451 79327			
106	SP 38446 79306			
107	SP 38448 79302			
108	SP 38439 79267			
109	SP 38446 79272	Negligible		
110	SP 38433 79257	Low		
111	SP 38451 79259	Moderate	Moderate (one further survey required)	Dawn re-entry on 22 June 2022
112	SP 38469 79326	Low		
113	SP 38533 79343			
114	SP 38541 79331	Moderate	High **(including hibernation potential in one PRF** (two further surveys required))	Dusk emergence on 23 June 2022 Dawn re-entry on 16 August 2022
115	SP 38544 79339	Low		
116	SP 38665 79393			
117	SP 38661 79395	Moderate	Trees scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
118	SP 38637 79391			
119	SP 38635 79375	Low		
120	SP 38629 79372			
121	SP 38614 79379			
122	SP 38598 79362			
123	SP 38576 79360			
124	SP 38557 79351	Moderate	Tree scoped out due to being within 50m of compensatory planting works only (see section 4.2.4).	
125	SP 38551 79360	Low		
126	SP 38548 79358			
127	SP 38486 79287	Moderate	Negligible (no further surveys required)	
128	SP 38473 79254	Low		
129	SP 38468 79246			
130	SP 38480 79129			

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
131	SP 38476 79131			
132	SP 38470 79140			
133	SP 38467 79158			
134	SP 38475 79191			
135	SP 38451 79218			
136	SP 38431 79204			
137	SP 38440 79194			
138	SP 38436 79167			
139	SP 38454 79168	Moderate	Moderate (one further survey required)	Dusk emergence on 23 June 2022
140	SP 38430 79151	Low		
141	SP 38450 79156			
142	SP 38438 79147			
143	SP 38451 79115	Moderate	Low (no further surveys required)	
144	SP 38462 79099	Low		
145	SP 38474 79099	Negligible		
146	SP 38476 79092	Moderate	Moderate (one further survey required)	Dusk emergence on 22 June 2022
147	SP 38480 79084	Low		
148	SP 38476 79063			
149	SP 38487 79064			
150	SP 38491 79045	Negligible		
151	SP 38498 79046			
152	SP 38506 79032	Moderate	High (two further surveys required)	Dusk emergence on 22 June 2022 Dawn re-entry on 14 September 2022
153	SP 38506 79012	Moderate	Moderate **(including hibernation potential in one PRF** (one further survey required))	Dusk emergence on 22 June 2022
154	SP 38528 78997	Low		
155	SP 38533 78988			
156	SP 38515 78989			
157	SP 38538 78967			
158	SP 38435 79129			

Tree ID	Grid Reference	Ground level PRA result	Tree climbing inspection result and survey effort required following inspection	Emergence/re-entry surveys?
159	SP 38450 79186			
160	SP 38672 79409			
161	SP 38615 78627	Negligible		
162	SP 38356 79234			
163	SP 38345 79246			
164	SP 38347 79253			
165	SP 38348 79256	Low		
166	SP 38339 79260			
167	SP 38594 79522			
168	SP 38611 79546			
169	SP 38614 79563	Negligible		
170	SP 38706 79849	Low		
171	SP 38956 80508	Negligible		
172	SP 38073 79374	Low		
Tree area 1	SP 38475 79302 (approximate central)	Low		

3.4. Emergence/re-entry surveys

3.4.1. Emergence/re-entry surveys were undertaken on 14 trees (T10, T11, T22, T26, T29, T33, T34, T103, T111, T114, T139, T146, T152 and T153) identified as being of moderate or high suitability for bat roosts and suitable for ground-level survey following the tree climbing inspection (see section 3.2). Surveys included one dusk emergence and one dawn re-entry survey of T152, for which further tree climbing surveys had been recommended, however were unable to be undertaken due to the presence of an active wasp nest within the tree. As such a complete dataset (a full suite of three surveys) was collected for this tree within the same survey season.

3.4.2. Three emergence/re-entry surveys were undertaken on the farm building complex at Hungerley Hall Farm (see section 2.5).

3.4.3. No bat roosts were identified within the surveyed trees and buildings.

3.4.4. Potential roosting activity was identified during some surveys and summarised below:

- During the emergence survey of T139 on 23 June no emergences were recorded, however due to soprano pipistrelle calls approximately 10 minutes before sunset the surveyor concluded there is a likely roost to the west of T139.
- During the emergence survey of T153 on 22 June common pipistrelle were detected approximately 15 minutes before sunset and were observed circling the tree at this time.
- During the emergence survey of Hungerley Hall Farm on 28 June potential roosts were identified in B4, B1 and B2 (see section 4.2).
- During the emergence survey of Hungerley Hall Farm on 25 July a potential pipistrelle emergence was recorded from B4 87 minutes after sunset.

3.4.5. In addition to the above potential roosting activity, during the emergence survey of T103 on 22 June the surveyor observed a potential soprano pipistrelle emergence from another tree in the woodland a maximum of 30m east of T103 two minutes after sunset. However, due to the timing of this observation it cannot be confirmed as potential roosting activity (see section 4.1.4).

3.4.6. Table 4 summarises the results of the emergence-re-entry surveys.

Table 4 Summary of results of emergence/re-entry roost surveys

Tree/building ID	Tree climbing inspection results	Surveys required following all aerial inspections	Survey Date	Survey Type	Sunset/sunrise Time, Start Time and End Time	Weather Data*	Roost Confirmed?	Data Summary** (including species, number of detections and first (dusk) or last (dawn) calls per species)
Trees								
10	Moderate	1	23 June 22	Dawn re-entry	Sunrise: 04:43 Start: 03:13 End: 04:58	Temperature: 18 – 15 Cloud cover: 0 – 7 Wind: 1– 1 Rain: 0 - 0	No	CP – 17, 03:44 NO – 4, 4:10 SP – 2, 03:16 SP foraging activity recorded around the tree
11	Moderate	1	17 May 22	Dusk emergence	Sunset: 20:58 Start: 20:43 End: 22:28	Temperature: 21 – 16 Cloud cover: 8 – 8 Wind: 2 – 2 Rain: light - 0	No	CP – 12, 21:36 SP – 1, 21:31 NO – 1, 21:45 NSL – 1, 21:55 CP foraging activity recorded
22	High	2	18 May 22	Dusk emergence	Sunset: 20:59 Start: 20:44 End: 22:29	Temperature: 15 - 15 Cloud cover: 8 - 8 Wind: 3 - 2 Rain: moderate throughout, lightening at 22:20	No	CP – 50, 21:24 SP – 3, 21:27 CP foraging activity recorded
			23 June 22	Dawn re-entry	Sunrise: 04:43 Start: 03:13	Temperature: 15 - 16	No	CP – 88, 03:53 SP – 5, 03:57

Tree/building ID	Tree climbing inspection results	Surveys required following all aerial inspections	Survey Date	Survey Type	Sunset/sunrise Time, Start Time and End Time	Weather Data*	Roost Confirmed?	Data Summary** (including species, number of detections and first (dusk) or last (dawn) calls per species)
					End: 04:43	Cloud cover: 0 - 8 Wind: 1 - 1 Rain: none		NO – 3, 04:07 CP foraging activity recorded on an adjacent arable field. SP and CP recorded commuting along the hedgerow.
26	Moderate	1	18 May 22	Dawn re-entry	Sunrise: 05:06 Start: 03:36 End: 05:21	Temperature: 12 – 12 Cloud cover: 0 – 0 Wind: 2 – 1 Rain: 0 – 0	No	CP – 110, 04:22 SP – 93, 04:19 CP and SP foraging activity recorded.
29	Moderate	1	18 May 22	Dawn re-entry	Sunrise: 05:06 Start: 03:35 End: 05:21	Temperature: 12 - 12 Cloud cover: 0 - 0 Wind: 2 - 1 Rain: None	No	CP – 13, 04:21 SP – 7, 03:43 NSL – 1, 03:36 MY – 1, 03:48 CP and SP foraging and commuting activity recorded.
33	Moderate	2	19 May 22	Dawn re-entry	Sunset: 21:01 Start: 20:46 End: 22:31	Temperature: 19 – 13 Cloud cover: 4 – 3 Wind: 1 – 0 Rain: None	No	CP – 33, 21:51 NO – 2, 21:29 SP – 4, 22:07 PS – 1, 21:50 NO were recorded foraging in the field to the west of the tree. CP were recorded foraging and commuting along the hedgerow north

Tree/building ID	Tree climbing inspection results	Surveys required following all aerial inspections	Survey Date	Survey Type	Sunset/sunrise Time, Start Time and End Time	Weather Data*	Roost Confirmed?	Data Summary** (including species, number of detections and first (dusk) or last (dawn) calls per species)
								to south. A pigeon *Columba* sp. emerged from one of the cavities.
			26 July 22	Dawn re-entry	Sunrise: 05:16 Start: 03:46 End: 05:31	Temperature: 17 – 16 Cloud cover: 8 – 8 Wind: 1 – 1 Rain: None	No	CP – 35, 04:25 SP – 10, 04:40 CP commuting activity recorded along the hedgerow, particularly north to south.
34	Moderate	2	19 May 22	Dusk emergence	Sunset: 21:01 Start: 20:46 End: 22:31	Temperature: 19 - 13 Cloud cover: 4 - 3 Wind: 1 - 0 Rain: None	No	CP – 58, 21:46 NO – 6, 21:18 SP – 3, 22:07
			26 July 22	Dawn re-entry	Sunrise: 05:16 Start: 03:46 End: 05:31	Temperature: 16 – 16 Cloud cover: 8 – 8 Wind: 1 – 1 Rain: Light intermittent	No	CP – 26, 04:23 SP – 6, 04:08 CP and SP were recorded foraging in the arable field and commuting along the hedgerow.
103	Moderate	1	22 June 22	Dusk emergence	Sunset: 21:32 Start: 21:17 End: 23:02	Temperature: 21 - 16 Cloud cover: 0 - 0 Wind: 1 - 1	No	SP – 28, 21:29 CP – 5, 23:12 MY – 12, 21:49

Tree/building ID	Tree climbing inspection results	Surveys required following all aerial inspections	Survey Date	Survey Type	Sunset/sunrise Time, Start Time and End Time	Weather Data*	Roost Confirmed?	Data Summary** (including species, number of detections and first (dusk) or last (dawn) calls per species)
						Rain: None		SP foraging activity was recorded in the field to the north.
111	Moderate	2	22 June 22	Dawn re-entry	Sunrise: 04:43 Start: 03:13 End: 04:43	Temperature: 14 – 15 Cloud cover: 0 – 0 Wind: 1 – 1 Rain: No rain	No	SP – 119, 04:29 CP – 55, 04:11 PS – 4, 03:52 MY – 4, 03:40 NO – 1, 03:25 CP and SP foraging activity recorded.
114	High	2	1 – 23/6/22	Dusk emergence	Sunset: 21:32 Start: 21:17 End: 23:02	Temperature: 23 – 21 Cloud cover: 5 – 7 Wind: 1 – 1 Rain: No rain	No	SP – 185, 21:48 CP – 25, 22:27 Myotis sp. – 13, 22:08 NSL – 2. 21:56 SP/CP – 11, 22:36 MY foraging activity recorded on Coombe Pool.
			2 – 16/8/22	Dawn re-entry	Sunrise: 05:05 Start: 04:20 End: 06:05	Temperature: 18 – 16 Cloud cover: 0 – 2 Wind: 2 – 2 Rain: No rain	No	SP – 297, 05:18 CP – 102, 04:35 CP/NA – 1, 04:29 NO – 24, 05:19 NY – 10, 05:10 LE – 3, 04:19 NSL – 3, 05:02 BLE – 1, 05:18