



Norwich Western Link

Environmental Statement

Chapter 11: Bats

Appendix 4c: Winter Automated Detector Surveys

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1 Introduction

1.1 Winter Automated Detector Surveys

- 1.1.1 WSP UK Ltd was commissioned by NCC in 2021 to complete a comprehensive suite of bat activity surveys for the Proposed Scheme, including the following a number of bat activity surveys during winter 2020/2021 and all summer activity surveys (ranging from 2019 to 2021).
- 1.1.2 Technical appendix 4c presents a table and series of maps, labelled Table C-1 and Figure C-1 to Figure C-10, showing the results of winter automated detector surveys undertaken in 2020 and 2021. The automated detectors were located within habitat features considered likely to be used by commuting or foraging bats within the Site Boundary and connected habitats at risk of severance from the Proposed Scheme. These locations have been grouped for analysis with detector locations as described in Appendix 11.04a and Figure A-4.

Table C-1 Summary of the bat species passes per night during the winter surveys at each location

- 1.1.3 Table C-1 summarises the bat species passes per night during the winter surveys at each location. From left to right, the first column displays the location (C1-C75). The second column displays the month of each survey (January to December). The third column shows the number of nights data was collected for at each location. The fourth column displays the broad habitat type present at each location. The fifth column displays the average number of passes for barbastelle from each survey at each location (to two decimal places). The sixth column displays the average number of passes for common pipistrelle from each survey at each location (to two decimal places). The seventh column displays the average number of passes for soprano pipistrelle from each survey at each location (to two decimal places). The eighth column displays the average number of passes for pipistrelle species from each survey at each location (to two decimal places). The ninth column



displays the average number of passes for *Nathusius'* pipistrelle species from each survey at each location (to two decimal places). The tenth column displays the average number of passes for *Myotis* species from each survey at each location (to two decimal places). The eleventh column displays the average number of passes for *Nyctalus* species from each survey at each location (to two decimal places). The twelfth column displays the average number of passes for noctule from each survey at each location (to two decimal places). The thirteenth column displays the average number of passes for brown long-eared bat from each survey at each location (to two decimal places). The fourteenth column displays the average number of passes for serotine from each survey at each location (to two decimal places). The final column displays the total passes per night (PPN) from each survey at each location (to two decimal places).

Figure C-1

- 1.1.4 Figure C-1 shows a map of the average passes per night for barbastelle at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where barbastelle passes were recorded, with the greatest number of passes recorded in the south area of the Site Boundary including The Broadway.

Figure C-2

- 1.1.5 Figure C-2 shows a map of the average passes per night for common pipistrelle at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where common pipistrelle passes were recorded and the locations with the greatest average number of passes recorded in the south area of the Site Boundary including The Broadway.



Figure C-3

- 1.1.6 1.1.6 Figure C-3 shows a map of the average passes per night for soprano pipistrelle at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where soprano pipistrelle passes were recorded and the locations with the greatest average number of passes recorded in the south area of the Site Boundary including The Broadway.

Figure C-4

- 1.1.7 1.1.7 Figure C-4 shows a map of the average passes per night for Nathusius' pipistrelle at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where for Nathusius' pipistrelle passes were recorded and the locations with the greatest average number of passes recorded in the south area of the Site Boundary including The Broadway.

Figure C-5

- 1.1.8 Figure C-5 shows a graph of Nathusius pipistrelle passes per location in each broad habitat type during winter deployment. An average of 0.20 passes per night were recorded in December 2020 at C65 and October 2020 at C67, at the hedgerow/treeline. An average of 0.20 passes per night were also recorded in November 2020 at C21 at the woodland edge.

Figure C-6

- 1.1.9 Figure C-6 shows a map of the average passes per night for *Myotis* species at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20



locations where for *Myotis* species passes were recorded and the locations with the greatest average number of passes recorded in the north area of the Site Boundary including The Northern Woodlands.

Figure C-7

1.1.10 Figure C-7 shows a map of the average passes per night for *Nyctalus* species at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where for *Nyctalus* species passes were recorded and the locations with the greatest average number of passes recorded in the north area of the Site Boundary including The Northern Woodlands.

Figure C-8

1.1.11 Figure C-8 shows a map of the average passes per night for brown long-eared bat at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where for brown long-eared bat passes were recorded and the locations with the greatest average number of passes recorded in the north area of the Site Boundary including The Northern Woodlands.

Figure C-9

1.1.12 Figure C-9 shows a map of the average passes per night for serotine at each location reference, across the Site Boundary, with passes recorded within Group A: The River Wensum and Grassland, Group B: The Northern Woodlands, Group E: Long Plantation, Group H: Hedgerows south of Weston Road and Group I: The Broadway. The figure shows that there are 20 locations where for Serotine passes were recorded and the locations with the greatest average number of passes recorded in the south area of the Site Boundary including The Broadway.



Figure C-10

- 1.1.13 Figure C-10 shows a graph of serotine passes per location in each broad habitat type during winter deployment. An average of 0.40 passes per night were recorded in December 2020 at C64 and an average of 0.20 passes per night were recorded in October 2020 at C71 and in January 2021 at C71, within Woodland habitat. An average of 0.20 passes per night in February 2021 at C21, March 2021 at C62 and October 2020 at C70, which were recorded at the Woodland edge.
- 1.1.14 We have included a summary of key information shown in this document in an accessible format. However, some users may not be able to access all technical details. If you require this document in a more accessible format, please contact norwichwesternlink@norfolk.gov.uk

Appendix C

Winter Automated Detector Survey

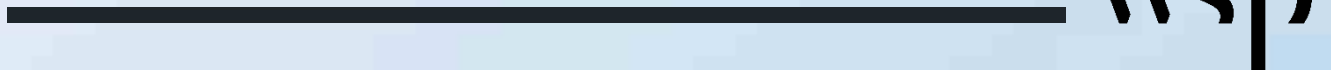


Table C-1 – Summary of bat species passes per night during the winter surveys at each location

Location	Month	No. of Nights	Broad Habitat Type	Barbastelle	Common pipistrelle	Soprano pipistrelle	Pipistrelle species	Nathusius pipistrelle	<i>Myotis</i> species	<i>Nyctalus</i> species	Noctule	Brown long-eared bat	Serotine	Total PPN
C1	October	5	River	0.40	42.00	272.20	2.60	0.00	49.20	0.40	0.20	0.00	0.00	367.00
C1	November	5	River	0.20	1.00	0.60	0.00	0.00	6.40	0.00	0.20	0.00	0.00	8.40
C1	December	5	River	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20
C1	January	5	River	0.00	0.00	0.20	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.80
C1	February	5	River	0.00	0.60	21.60	0.00	0.00	4.20	0.00	0.40	0.20	0.00	27.00
C1	March	5	River	0.00	0.00	7.20	0.00	0.00	4.20	0.00	0.00	0.40	0.00	11.80
C1	April	5	River	0.00	0.00	3.80	0.00	0.00	109.40	0.00	0.00	0.00	0.00	113.20
C8	October	5	Woodland edge	2.00	25.60	21.40	1.40	0.00	1.20	0.40	1.20	1.60	0.00	54.80
C8	November	5	Woodland edge	0.40	1.00	0.60	0.00	0.00	0.80	0.00	0.00	0.20	0.00	3.00
C8	December	5	Woodland edge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C8	January	5	Woodland edge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C8	February	5	Woodland edge	0.00	0.00	0.20	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.40
C8	March	5	Woodland edge	0.00	0.00	0.60	0.00	0.00	16.40	0.00	0.00	0.00	0.00	17.00
C8	April	5	Woodland edge	0.00	0.00	0.20	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.40
C11	October	5	Hedgerow/ treeline	1.60	150.20	72.80	0.00	0.00	0.00	0.00	0.00	0.40	0.00	225.00
C11	November	5	Hedgerow/ treeline	1.60	0.20	0.20	0.00	0.00	1.40	0.00	0.00	0.00	0.00	3.40
C11	December	5	Hedgerow/ treeline	0.40	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.20	0.00	2.60
C11	January	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C11	February	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.80
C11	March	5	Hedgerow/ treeline	0.80	0.00	5.80	0.00	0.00	0.40	0.20	0.00	0.40	0.00	7.60
C11	April	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	1.60
C21	October	5	Woodland edge	34.20	527.20	741.60	0.60	0.20	1.20	0.00	0.00	0.20	0.00	1305.20
C21	November	5	Woodland edge	44.80	18.00	89.00	0.00	0.00	6.60	0.20	0.00	0.00	0.00	158.60
C21	December	5	Woodland edge	7.20	1.80	0.80	0.00	0.00	1.60	0.00	0.00	0.20	0.00	11.60
C21	January	5	Woodland edge	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20
C21	February	5	Woodland edge	39.20	90.80	25.80	0.00	0.00	2.60	0.00	0.00	0.20	0.20	158.80



Location	Month	No. of Nights	Broad Habitat Type	Barbastelle	Common pipistrelle	Soprano pipistrelle	Pipistrelle species	Nathusius pipistrelle	Myotis species	Nyctalus species	Noctule	Brown long-eared bat	Serotine	Total PPN
C21	March	5	Woodland edge	8.80	1.80	0.80	0.00	0.00	1.00	0.20	0.00	0.20	0.00	12.80
C21	April	5	Woodland edge	3.40	7.40	1.60	0.20	0.00	0.40	0.00	0.00	0.00	0.00	13.00
C49	October	5	Woodland edge	8.00	75.60	157.00	2.00	0.00	5.20	1.60	6.40	0.20	0.00	256.00
C49	November	5	Woodland edge	2.60	32.80	118.60	0.00	0.00	3.00	0.20	0.40	0.20	0.00	157.80
C49	December	5	Woodland edge	1.00	2.20	1.20	0.00	0.00	0.60	0.00	0.00	0.00	0.00	5.00
C49	January	5	Woodland edge	0.80	5.00	19.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	26.40
C49	February	5	Woodland edge	1.60	30.40	65.80	0.00	0.00	5.80	0.00	0.00	1.20	0.00	104.80
C49	March	5	Woodland edge	1.00	1.60	8.40	0.00	0.00	0.80	0.00	0.00	0.00	0.00	11.80
C49	April	5	Woodland edge	0.20	19.80	20.40	0.00	0.00	26.80	0.00	0.20	0.00	0.00	67.40
C53	October	5	Woodland	3.40	93.20	30.00	0.00	0.00	2.80	0.00	0.00	1.40	0.00	130.80
C53	November	5	Woodland	0.20	17.40	7.80	0.00	0.00	2.80	0.00	0.00	0.00	0.00	28.20
C53	December	5	Woodland	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.40
C53	January	5	Woodland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C53	February	5	Woodland	0.60	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.80
C53	March	5	Woodland	0.20	0.40	0.40	0.00	0.00	2.00	0.20	0.00	0.80	0.00	4.00
C53	April	5	Woodland	0.00	0.00	0.40	0.00	0.00	0.40	0.00	0.00	0.20	0.00	1.00
C62	October	5	Woodland edge	18.40	197.60	43.00	0.00	0.00	1.00	0.00	0.00	0.40	0.00	260.40
C62	November	5	Woodland edge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C62	December	5	Woodland edge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C62	January	5	Woodland edge	0.40	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.20	0.00	0.80
C62	February	5	Woodland edge	22.20	44.60	45.40	0.00	0.00	1.20	0.60	0.20	0.20	0.20	114.60
C62	March	5	Woodland edge	9.40	0.80	1.40	0.00	0.00	0.60	0.00	0.00	0.40	0.00	12.60
C62	April	5	Woodland edge	0.60	6.20	0.40	0.00	0.00	0.60	0.00	0.00	0.20	0.00	8.00
C63	October	5	Woodland edge	6.60	186.00	107.00	1.00	0.00	0.40	0.60	0.00	1.40	0.00	303.00
C63	November	5	Woodland edge	2.40	9.40	5.40	0.00	0.00	4.60	0.00	0.00	0.00	0.00	21.80
C63	December	5	Woodland edge	0.40	33.40	25.00	2.20	0.00	0.80	0.00	0.00	0.00	0.00	61.80
C63	January	5	Woodland edge	0.20	0.60	0.40	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.40



Location	Month	No. of Nights	Broad Habitat Type	Barbastelle	Common pipistrelle	Soprano pipistrelle	Pipistrelle species	Nathusius pipistrelle	Myotis species	Nyctalus species	Noctule	Brown long-eared bat	Serotine	Total PPN
C63	February	5	Woodland edge	18.40	17.60	25.80	0.00	0.00	6.20	0.00	0.00	0.00	0.00	68.00
C63	March	5	Woodland edge	2.00	3.60	4.40	0.00	0.00	1.60	0.00	0.00	0.20	0.00	11.80
C63	April	5	Woodland edge	0.80	8.40	0.20	0.00	0.00	2.00	0.20	0.00	0.80	0.00	12.40
C64	October	5	Woodland	1.80	30.80	25.60	0.00	0.00	9.00	0.80	0.60	0.40	0.40	69.40
C64	November	5	Woodland	2.20	0.40	4.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	7.60
C64	December	5	Woodland	2.00	4.20	1.60	0.00	0.00	2.40	0.00	0.00	0.00	0.00	10.20
C64	January	5	Woodland	0.80	0.00	0.20	0.00	0.00	0.20	0.00	0.00	0.00	0.00	1.20
C64	February	5	Woodland	9.60	43.00	21.80	0.00	0.00	8.60	0.00	0.00	0.60	0.00	83.60
C64	March	5	Woodland	3.80	0.20	1.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00	6.20
C64	April	5	Woodland	0.80	5.40	2.20	0.00	0.00	1.20	0.00	0.00	0.00	0.00	9.60
C65	October	5	Hedgerow/ treeline	41.60	34.20	166.80	0.80	0.00	0.00	0.00	0.00	1.20	0.00	244.60
C65	November	5	Hedgerow/ treeline	0.00	1.40	3.20	0.00	0.20	1.80	0.00	0.00	0.00	0.00	6.60
C65	December	5	Hedgerow/ treeline	0.00	0.00	0.60	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.60
C65	January	5	Hedgerow/ treeline	0.00	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.40
C65	February	5	Hedgerow/ treeline	0.20	0.00	0.60	0.00	0.00	0.20	0.00	0.00	0.20	0.00	1.20
C65	March	5	Hedgerow/ treeline	0.00	1.40	3.20	0.00	0.00	0.60	0.00	0.00	0.00	0.00	5.20
C65	April	5	Hedgerow/ treeline	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.40
C66	October	5	Hedgerow/ treeline	0.20	1.40	1.80	0.00	0.00	0.20	0.00	0.00	0.00	0.00	3.60
C66	November	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.60
C66	December	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
C66	January	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C66	February	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.60
C66	March	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C66	April	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C67	October	5	Hedgerow/ treeline	2.60	150.00	25.20	0.00	0.20	0.00	0.40	0.80	0.20	0.00	179.40
C67	November	5	Hedgerow/ treeline	0.00	55.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	55.60
C67	December	5	Hedgerow/ treeline	0.00	0.40	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.80



Location	Month	No. of Nights	Broad Habitat Type	Barbastelle	Common pipistrelle	Soprano pipistrelle	Pipistrelle species	Nathusius pipistrelle	Myotis species	Nyctalus species	Noctule	Brown long-eared bat	Serotine	Total PPN
C67	January	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20
C67	February	5	Hedgerow/ treeline	0.00	2.20	0.40	0.00	0.00	0.40	0.00	0.00	0.00	0.00	3.00
C67	March	5	Hedgerow/ treeline	1.40	10.80	9.20	0.00	0.00	0.40	0.00	0.00	0.00	0.00	21.80
C67	April	5	Hedgerow/ treeline	0.20	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	1.00
C68	October	5	Woodland	3.60	5.00	7.80	0.00	0.00	8.80	0.00	0.00	0.00	0.00	25.20
C68	November	5	Woodland	30.00	0.40	0.60	0.00	0.00	5.60	0.00	0.00	0.00	0.00	36.60
C68	December	5	Woodland	5.80	9.60	17.40	0.00	0.00	2.00	0.00	0.00	0.00	0.00	34.80
C68	January	5	Woodland	0.40	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.80
C68	February	5	Woodland	8.60	0.00	1.60	0.00	0.00	0.40	0.00	0.00	0.20	0.00	10.80
C68	March	5	Woodland	0.60	0.00	0.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00
C68	April	5	Woodland	0.40	0.00	0.40	0.00	0.00	0.80	0.00	0.00	0.00	0.00	1.60
C69	October	5	Hedgerow/ treeline	0.80	14.20	24.80	0.20	0.00	2.40	0.20	1.40	1.40	0.00	45.40
C69	November	5	Hedgerow/ treeline	0.00	0.60	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	1.40
C69	December	5	Hedgerow/ treeline	0.00	0.00	0.00	0.00	0.00	1.40	0.00	0.20	0.20	0.00	1.80
C69	January	5	Hedgerow/ treeline	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
C69	February	5	Hedgerow/ treeline	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.40
C69	March	5	Hedgerow/ treeline	0.00	0.00	0.20	0.00	0.00	0.80	0.20	0.00	1.00	0.00	2.20
C69	April	5	Hedgerow/ treeline	0.00	0.00	0.40	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.60
C70	October	5	Woodland edge	7.40	357.00	373.00	0.20	0.00	3.00	1.00	0.60	1.80	0.20	744.20
C70	November	5	Woodland edge	5.60	419.20	618.20	0.20	0.00	2.00	0.40	0.00	0.40	0.00	1046.00
C70	December	5	Woodland edge	0.40	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	1.00
C70	January	5	Woodland edge	4.40	7.20	16.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.00
C70	February	5	Woodland edge	7.40	0.40	0.60	0.00	0.00	0.60	0.00	0.00	0.20	0.00	9.20
C70	March	5	Woodland edge	1.40	0.40	0.00	0.00	0.00	0.80	0.00	0.00	1.40	0.00	4.00
C70	April	5	Woodland edge	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.20
C71	October	5	Woodland	1.60	56.60	24.60	0.00	0.00	3.40	0.00	1.00	1.20	0.20	88.60
C71	November	5	Woodland	3.40	7.00	9.80	0.00	0.00	4.40	0.00	0.00	0.60	0.00	25.20



Location	Month	No. of Nights	Broad Habitat Type	Barbastelle	Common pipistrelle	Soprano pipistrelle	Pipistrelle species	Nathusius pipistrelle	Myotis species	Nyctalus species	Noctule	Brown long-eared bat	Serotine	Total PPN
C71	December	5	Woodland	0.20	0.00	1.20	0.00	0.00	2.40	0.00	0.00	0.00	0.00	3.80
C71	January	5	Woodland	0.20	0.00	0.20	0.00	0.00	2.20	0.00	0.00	0.00	0.00	2.60
C71	February	5	Woodland	1.20	0.40	0.60	0.00	0.00	1.20	0.00	0.00	0.40	0.00	3.80
C71	March	5	Woodland	0.00	0.80	0.80	0.00	0.00	5.20	0.00	0.00	0.40	0.00	7.20
C71	April	5	Woodland	0.00	0.00	1.00	0.00	0.00	1.40	0.00	0.00	0.40	0.00	2.80
C72	October	5	Woodland	14.00	442.60	371.40	0.00	0.00	1.20	0.20	0.00	0.40	0.00	829.80
C72	November	5	Woodland	2.20	12.40	228.00	0.00	0.00	1.40	0.00	0.00	0.20	0.00	244.20
C72	December	5	Woodland	0.20	4.00	9.40	0.00	0.00	0.80	0.00	0.00	0.00	0.00	14.40
C72	January	5	Woodland	0.00	0.00	0.40	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.40
C72	February	5	Woodland	8.00	0.60	4.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00	14.80
C72	March	5	Woodland	1.40	0.20	0.80	0.00	0.00	10.40	0.00	0.00	0.20	0.00	13.00
C72	April	5	Woodland	0.00	4.80	1.40	0.00	0.00	0.20	0.00	0.00	0.00	0.00	6.40
C73	October	5	Woodland	9.80	98.00	262.80	0.00	0.00	7.00	0.00	0.00	1.00	0.00	378.60
C73	November	5	Woodland	3.80	9.00	28.80	0.00	0.00	3.80	0.20	0.00	0.40	0.00	46.00
C73	December	5	Woodland	2.20	4.20	4.20	0.00	0.00	4.20	0.00	0.00	0.00	0.00	14.80
C73	January	5	Woodland	0.40	1.80	9.20	0.00	0.00	1.00	0.20	0.00	0.20	0.00	12.80
C73	February	5	Woodland	14.80	4.00	15.80	0.00	0.00	1.60	0.20	0.00	0.60	0.00	37.00
C73	March	5	Woodland	11.00	3.80	12.40	0.00	0.00	42.20	0.00	0.20	8.20	0.00	77.80
C73	April	5	Woodland	0.60	4.80	9.00	0.00	0.00	2.40	0.00	0.00	0.40	0.00	17.20
C74	October	5	Woodland	1.80	147.00	516.80	0.00	0.00	3.20	0.20	0.00	0.20	0.00	669.20
C74	November	5	Woodland	0.20	4.80	15.40	0.00	0.00	2.40	0.00	0.00	0.20	0.00	23.00
C74	December	5	Woodland	2.20	2.20	139.20	0.00	0.00	1.00	0.00	0.00	0.00	0.00	144.60
C74	January	5	Woodland	0.00	1.40	6.20	0.00	0.00	2.40	0.00	0.00	0.00	0.00	10.00
C74	February	5	Woodland	0.80	1.60	11.20	0.00	0.00	2.80	0.00	0.00	0.80	0.20	17.40
C74	March	5	Woodland	0.00	0.40	5.20	0.00	0.00	18.20	0.20	0.00	4.80	0.00	28.80
C74	April	5	Woodland	0.40	6.20	8.20	0.00	0.00	2.00	0.00	0.00	0.00	0.00	16.80
C75	October	5	Woodland	5.20	58.40	255.00	2.80	0.00	4.40	0.20	0.00	0.20	0.00	326.20



Location	Month	No. of Nights	Broad Habitat Type	Barbastelle	Common pipistrelle	Soprano pipistrelle	Pipistrelle species	Nathusius pipistrelle	<i>Myotis</i> species	<i>Nyctalus</i> species	Noctule	Brown long-eared bat	Serotine	Total PPN
C75	November	5	Woodland	28.40	21.40	1040.20	0.00	0.00	3.40	0.00	0.20	0.20	0.00	1093.80
C75	December	5	Woodland	1.00	0.60	4.60	0.00	0.00	0.60	0.00	0.00	0.00	0.00	6.80
C75	January	5	Woodland	6.40	0.40	18.80	0.00	0.00	0.80	0.20	0.20	0.20	0.00	27.00
C75	February	5	Woodland	7.00	5.00	47.20	0.00	0.00	11.80	0.00	0.20	1.00	0.00	72.20
C75	March	5	Woodland	1.60	2.00	12.00	0.00	0.00	9.40	0.00	0.00	0.00	0.00	25.00
C75	April	5	Woodland	0.20	12.60	6.20	0.00	0.00	1.20	0.00	0.00	0.40	0.00	20.60

Figure C-1 - Winter bat activity index values – barbastelle



Figure C-2 - Winter bat activity index value - common pipistrelle



Figure C-3 - Winter bat activity index value – soprano pipistrelle



Figure C-4 - Winter bat activity index value – Nathusius pipistrelle



Figure C-5 - Graph showing Nathusius' pipistrelle passes per location in each broad habitat type during the winter deployment

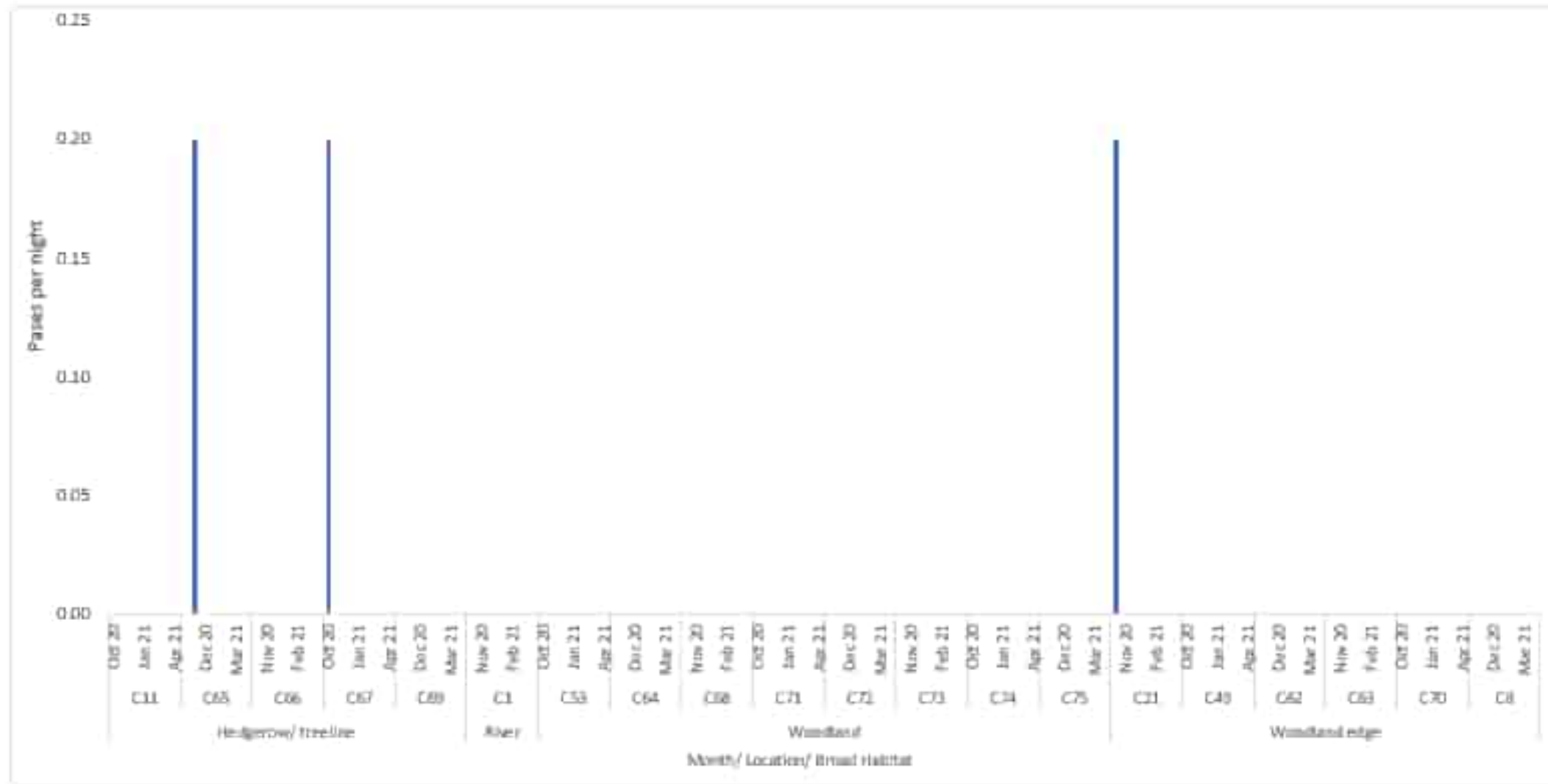


Figure C-6 - Winter bat activity index value *Myotis* species



Figure C-7 - Winter bat activity index value *Nyctalus* species



Figure C-8 - Winter bat activity index value brown long-eared bat



Figure C-9 - Winter bat activity index value serotine



Figure C-10 - Graph showing serotine passes per night per location in each broad habitat type during the winter deployment

