

Nocturnal Bat Survey Data

Building 1

19th July 2016 – dawn return survey

A single common pipistrelle (*Pipistrellus pipistrellus*) was recorded emerging from a gap in the brickwork in the south western corner of B1 at 04:36, 41 minutes before sunrise. Low levels of common pipistrelle activity were recorded across site between 04:04 and 04:48 h. Low levels of soprano pipistrelle (*Pipistrellus pygmaeus*) activity were recorded on the eastern side of B1.

Building 6

13th July 2016 – dawn return survey

Two common pipistrelles were recorded returning to a gap above the top floor window panes of B6. The first returned at 04:29 h, 41 minutes before sunrise and the second returned at 04:37, 33 minutes before sunrise. Further common pipistrelles were heard at 04:04 and 04:07 h. No other activity was observed during the survey.

Building 7

13th July 2016 – dawn return survey

No bats were recorded returning to B7 and no bats were recorded during the survey.

Building 8

13th July 2016 – dawn return survey

No bats were recorded returning to B8 and no bats were recorded during the survey.

Building 9

31st August 2016 – dawn return survey

No bats were recorded emerging from B9 during the survey. Low levels of common pipistrelle activity were heard between 05:01 and 06:04 h with one common pipistrelle being observed foraging along the western elevation of the middle section of B9 at 06:04. A single noctule (*Nyctalus noctula*) was heard at 05:16 h. No other bat species were recorded during the survey.

Building 10

20th July 2016 – dawn return survey

A single soprano pipistrelle was recorded returning to a crack above the first window on the right of B10 at 04:51 h, 27 minutes before sunrise. A common pipistrelle was heard at 03:55 h and a greater noctule was heard at 04:18 h.

26th July 2016 – dawn return survey

No bats were recorded emerging from the building during the survey. A single common pipistrelle was heard at 05:36 h and a single soprano pipistrelle was heard at 05:54 h.

Building 11

19th July 2016 – dusk emergence survey

No bats were recorded returning to B11 and no bats were recorded during the survey.

20th July 2016 – dawn return survey

No bats were recorded returning to B11. A single common pipistrelle was heard at 04:22 h, 56 minutes before sunrise.

Building 12

19th July 2016 – dusk emergence survey

No bats were recorded returning to B12 and no bats were recorded during the survey.

20th July 2016 – dawn return survey

No bats were recorded returning to B12. A single common pipistrelle was heard at 04:22 h, 56 minutes before sunrise.

Building 13

20th July 2016 – dawn return survey

No bats were recorded returning to B13. One common pipistrelle was heard at 03:55 h, 1 h 23 minutes before sunrise with a further common pipistrelle being observed foraging along the western elevation of B13 at 04:36. A brown long-eared was heard at 04:06 h, 1 h 12 minutes before sunrise and a greater noctule was heard at 04:18 h, an hour before sunrise.

Building 14

5th August 2016 – dawn return survey

No bats were recorded returning to B14. Low levels of common pipistrelle activity were observed throughout the survey. The first bat was heard at 04:15 h, 1 h 27 minutes before sunrise. The last bat observed was seen heading south away from B14 at 05:04 h, 38 minutes before sunrise.

Building 15

11th July 2016 – dusk emergence survey

No bats were recorded emerging from B15. Only one common pipistrelle was heard at 22:52 h, 1 hour 25 minutes after sunset.

Building 17

11th July 2016 – Dusk emergence

No bats were recorded returning to B17 and no bats were recorded during the survey.

Building 18

19th July 2016 – dusk emergence survey

No bats were recorded emerging from B18. Low levels of common pipistrelle activity were observed between 21:18 and 22:38, particularly heading west over B18 towards the trees. Low levels of noctule activity were also heard between 21:25 and 22:08. A brown long-eared was seen commuting west to the south of B18 at 22:13 h, 58 minutes after sunset. A soprano pipistrelle was heard at 22:16 h, 1 h 1 minute after sunset.

Building 19

19th July 2016 – dawn return survey

No bats were recorded returning to B19. A soprano pipistrelle was observed flying over the eastern side of B1 heading north at 04:22 h, 55 minutes before sunrise. A further soprano pipistrelle was heard at 04:31, 46 minutes before sunrise. A common pipistrelle was observed heading north through the trees to the south of B19 at 04:48 h, 29 minutes before sunrise.

Building 21

12th July 2016 – dusk emergence survey

No bats were recorded emerging from B21. Common pipistrelle bats were heard at 21:41 h, 15 minutes after sunset and at 22:10 h, 44 minutes after sunset. A soprano pipistrelle bat was heard at 22:25 h, 59 minutes after sunset.

Building 22

12th July 2016 – dusk emergence survey

No bats were recorded emerging from B21. Common pipistrelle bats were heard at 21:41 h; 15 minutes after sunset and at 22:10 h, 44 minutes after sunset.

Building 23

12th July 2016 – dusk emergence survey

No bats were recorded returning to B23 and no bats were recorded during the survey.

Building 24

12th July 2016 – dusk emergence survey

No bats were recorded returning to B24 and no bats were recorded during the survey.

Building 25

6th July 2016 – dawn return survey

No bats were recorded returning to B25 and no bats were recorded during the survey.

Building 26

5th July 2016 – dusk emergence survey

No bats were recorded emerging from B26. Low levels of soprano pipistrelle and common pipistrelle activity were recorded between 21:48 and 22:32 h over pond 1. Very low levels of Whiskered/Brandt's activity were also recorded over pond 1 between 22:04 and 22:33.

Building 27

12th July 2016 – dawn return survey

No bats were recorded emerging from B27. The first bat heard was a lesser horseshoe at 03:43 h, 1 h 24 minutes before sunrise. Low levels of soprano pipistrelle and common pipistrelle activity were recorded over pond 3 between 03:49 and 04:57 h. Myotis species bats were recorded at 03:57 and 04:11 h, 1 h 10 minutes and 56 minutes before sunrise respectively.

7th September 2016 – dawn return survey

No bats were recorded emerging from B27. Low levels of common pipistrelle activity were heard between 05:07 and 06:04 h. A lesser horseshoe bat was heard at 05:23 h, 1 h 13 minutes before sunrise and was seen at 05:24 h flying over B27. A whiskered/Brandt's bat was heard at 05:27 h, 1 h 9 minutes before sunrise. Brown long-eared bats were heard at 05:41 and 05:48 h. Low levels of noctule activity were recorded towards the end of the survey, the last of which was seen commuting over the trees to the east of B27 heading south at 06:23, 13 minutes before sunrise.

Building 28

4th July 2016 – dusk emergence survey

No bats were recorded emerging from B28. Low levels of common pipistrelle and soprano pipistrelle activity were recorded between 21:14 and 22:20 h, particularly between B28 and B32a and foraging to the east of B28. A serotine bat was heard at 22:42 h, 1 h 10 minutes after sunset.

12th July 2016 – dawn return survey

A single common pipistrelle bat was recorded returning to a ventilation gap on the west side of B28 at 4:50 h, 17 minutes before sunrise. Low levels of common pipistrelle and soprano pipistrelle activity were recorded between 03:39 and 04:51 h, particularly to the south of B28. A myotis species bat was seen heading east, away from B32a at 03:49, 18 minutes before sunrise.

8th September 2016 – dawn return survey

This survey was carried out inside B28. High levels of lesser horseshoe activity were recorded between 05:11 and 06:28 on the ground floor of B28. Only one lesser horseshoe was recorded on the first floor of B28 at 04:54 h, 1 h 42 minutes before sunrise. Only one lesser horseshoe was recorded on the top floor of B28 at 04:56 h, 1 h 40 minutes before sunrise. Lesser horseshoe bats were observed within the lift shaft at 05:29 and 06:24 h. A

common pipistrelle bat was observed flying outside B28 at 05:58 h, 387 minutes before sunrise.

Building 32a

12th July 2016 – dawn return survey

No bats were recorded returning to B32a. Low levels of common pipistrelle and soprano pipistrelle activity were recorded between 03:39 and 04:51 h, particularly between B28 and B32a. A myotis species bat was seen heading east, away from B32a at 03:49, 18 minutes before sunrise.

Building 32b

5th July 2016 – dawn return survey

No bats were recorded returning to B32b. A soprano pipistrelle was recorded commuting between B32b and B26 heading south at 04:33 h, 28 minutes before sunrise. A second soprano pipistrelle was recorded foraging around the north eastern corner of B32b at 04:38 h, 23 minutes before sunrise.

Building 33

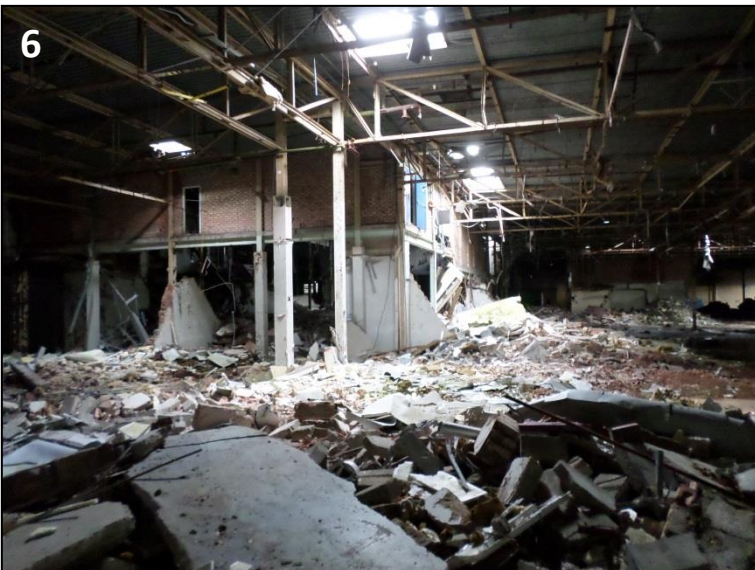
6th July 2016 – dawn return survey

No bats were recorded returning to B33. A single common pipistrelle was observed commuting along the west elevation of B33 heading north at 04:11 h, 51 minutes before sunrise.

Building 39

30th August 2016 – dusk emergence survey

No bats were recorded returning to B39. The first bat recorded was a soprano pipistrelle flying around B39 at 20:12 h, 10 minutes after sunset. A bechstein was heard at 20:34 h, 32 minutes after sunset. A lesser horseshoe was heard at 21:27 h, 1 h 25 minutes after sunset. A whiskered/Brandt's bat was recorded flying around B39 at 21:28 h, 1 h 26 minutes after sunset.



1. Roost location used by two common pipistrelle bats on west elevation of B6.
2. Common pipistrelle day roost location on north-west elevation of B28.
3. Common pipistrelle day roost location on south-west corner of B1.
4. Yellow underwing moth wings and scattered lesser horseshoe bat droppings demonstrating presence of lesser horseshoe bat roost in B26.
5. Cluster of 1000+ lesser horseshoe bat droppings within the main roosting location of the lesser horseshoe bat satellite roost.
6. Interior of B32a, close to the identified lesser horseshoe bat night roost location.
7. Building 28 viewed from south-west corner. Location of room used by lesser horseshoe bat satellite roost indicated by red star.



Johnsey Estates UK (JEUK)
Mamhilad Urban Village

Appendix 7.7. Nocturnal Bat Survey
Data - Bat Roost Images

Brook Holt 3 Blackburn Road Sheffield S61 2DW
T: 0114 2669292 www.ecusltd.co.uk