



Urban Tree Experts

BS5837 – Tree Surveys – Ecological Consulting

ECOLOGICAL SURVEY REPORT (BATS) AT 140 KIDMORE END ROAD EMMER GREEN



**Prepared on instructions from:
Mr T Edwards
140 Kidmore End Road
Emmer Green
Berkshire
RG4 8SP**

7th June 2017

Ref: SPH/ESR-01/01.06v2



Urban Tree Experts

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The validity of this report ceases at the prescribed time limit or after one year from the site inspection, or if the site conditions change due to unspecified works that affect the site whichever is the sooner.



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EXECUTIVE SUMMARY

Urban Tree Experts was commissioned by Mr T Edwards to carry out two dusk emergence surveys and a dawn return to roost survey at 140 Kidmore End Road, Emmer Green, Reading RG4 8SP. This is to support a current planning application that seeks to make extensions and alterations to existing bungalow including adding an additional floor.

140 Kidmore End Road is in ageing property in satisfactory condition however there were numerous gaps externally around the hanging tiles and on the roof in which bats could roost. Internally, a small number of individual bat droppings were recorded within the loft space, indicating that bats are using the building for roosting. DNA testing by Warwick University revealed the droppings to be those of the brown long-eared bat (BLE), see Appendix 1.

The building has been used historically by BLE bats to roost and in line with our instructions, three further surveys were undertaken in order to establish presence or absence of bats at the house and to inform appropriate mitigation for the proposed works.

The dusk emergence surveys were conducted on Monday 1st May and Thursday 1st June 2017 and the dawn return to roost survey was conducted on Tuesday 16th May 2017. The dawn return to roost survey recorded a 55khz pipistrelle bat re-entering the rear roof above the patio doors.

A search of the Berkshire and South Bucks bat group records confirmed 9 different species of bats within the 2 kilometer search radius, with 5 different bat species being recorded in Kidmore Road in 2014 and 2015. A summary of the records are included at Appendix 2.

A search of the Magic interactive web site revealed a local nature reserve – Clayfield Copse, it is within 1,000 metres of the property. It also revealed that two separate European Protected Species (EPS) licences have been granted within the last 5 years for (BLE), Natters and Daubentons bats.

This report confirms the findings of the surveys, completed by an experienced licensed bat ecologist, in accordance with current best practice guidance where possible, and outlines any ecological constraints or issues with the proposed works.

In the short term, in the absence of mitigation, the addition of an additional floor will result in the damage/destruction of a roost, the disturbance and/or alteration of access points, and the potential disturbance, killing, or injury of resident bats. However following works there is no reason why continued roosting provision at 140 Kidmore End Road cannot be successfully maintained and enhanced in the long term. An EPS licence must be obtained from Natural England before works commence at 140 Kidmore End Road.

An outline method statement has been included to enable the Local Planning Authority to have regards to the requirements of the Habitats Directive... *in the exercise of their functions in considering the planning application*. A full method statement will be prepared as part of an EPS licence application to be submitted to Natural England.



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1. Introduction

1.1 Instruction

Urban Tree Experts was commissioned by Mr T Edwards to carry out two emergence and a dawn return to roost survey at 140 Kidmore End Road, Emmer Green, Reading RG4 8SP.

1.2 Aims and Objectives

The emergence/re-entry surveys are designed to:

- Identify the presence/likely absence of bats using the building to roost.
- Estimate the size and status of any existing bat roost within the building.
- Determine the potential impacts on any bat roost from the proposed development.

The dusk emergence/dawn return to roost surveys were carried out in accordance with Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edition).

1.3 Proposed Works

The surveys were commissioned in connection with a current planning application to Reading Borough Council, reference 170802, that seeks to make extensions and alterations to existing bungalow including adding an additional floor.

1.4 Surveyor Background and Experience

The surveys were conducted by Simon Holmes, Robert (Bob) Britain, Bridget Parslow, Alistair (Ali) Barnes and Elaine Charlson and the report was completed by Simon Holmes, MSc, a Natural England licenced bat ecologist.

Simon Holmes holds Class 3 (CL19) and 4 Bat (CL20) Licenses (Nos. 17637 and 17638). He has 27 years' experience of carrying out bat surveys and bat conservation work and has attended training courses on bat surveys and mitigation, bat call analysis, bat identification and others run by the Bat Conservation Trust, Wildwood Ecology and local bat groups.

Bridget Parslow has 28 years' experience of carrying out bat surveys, bat care and bat conservation work and has attended numerous training courses, she holds both RV and Survey licence numbers CLS 10324 and 10391 respectively.

Ali Barnes has been surveying bats for five years and has received training in surveying techniques, bat detector (EM3 and Batlogger M) use, and echolocation analysis. He holds a Class 2 Bat Licence number C143559.

Bob Brittain: Bob has been surveying bats for four years with various ecological consultancies and has received training in surveying techniques, bat detector use, bat biology, identification, acoustic monitoring, echolocation analysis and netting.

Elaine Charlson has been surveying bats for three years and has received training in surveying techniques, bat detector use, bat biology, bat care, bat identification, acoustic monitoring, echolocation analysis and netting.



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2. Survey Methodology

2.1 Constraints/Limitations

There were no constraints or limitations to the surveys.

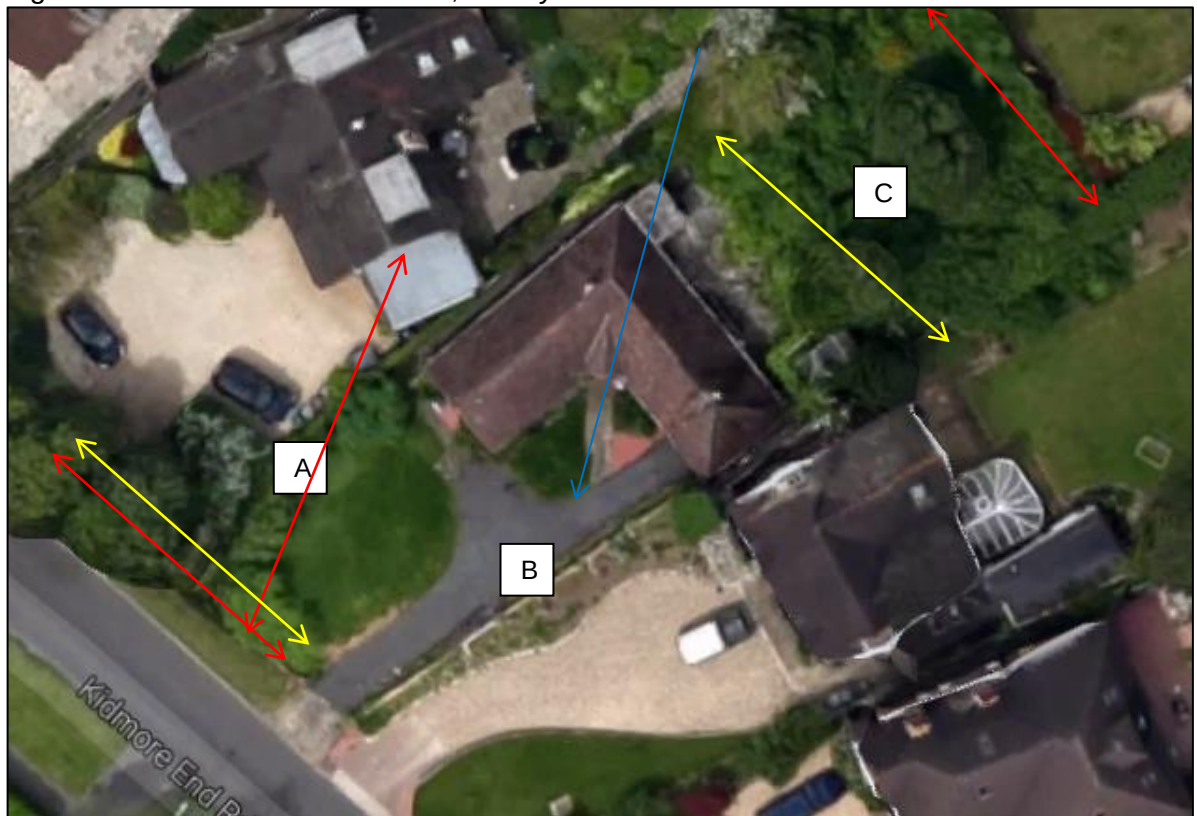
2.2 Dusk and Dawn Surveys

Two night time dusk emergence surveys were conducted on the evenings of Monday 1st May and Thursday 1st June 2017 and the dawn return to roost survey was conducted on Thursday 16th May 2017. The surveys were at a time of year when active bats are most likely to be present. Weather conditions were suitable for the bat surveys, being conducted during warm weather and when bats were likely to be active.

The surveyors were stationed around the building (as shown in Figure 1), to ensure the features identified in the preliminary bat report could be observed.

During the surveys bat activity was also monitored using three BatLogger M together with a FLIR T1020 thermal camera. The detectors and camera were fitted with SD cards for recording bat activity, allowing for later analysis with Kaleidoscope Pro 3 software.

Figure 1 – 140 Kidmore End Road, surveyor locations.



During the dawn return to roost survey, a soprano pipistrelle bat was seen returning the building to roost via a gap in the rear roof above the patio doors, the location is indicated on the photo at Appendix 3. In total three different species were recorded and identified foraging and commuting around the site. A simple summary of the bats recorded can be seen in Table 2 on page 7. The most frequently used flight paths of the bats can be seen in Figure 1. The noctule flight path is indicated in blue, the common pipistrelles are shown as red and the soprano pipistrelles as yellow.



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3. Survey Findings

3.1 Dusk and Dawn Surveys

The weather conditions and surveyor details from the three surveys can be found in Table 1 below.

Table 1 – Surveyor details and weather conditions for bat activity survey conducted at 140 Kidmore End Road.

Date:	1 st May 2017	16 th May 2017	1 st June 2017
Survey Type	Emergence survey	Re-entry survey	Emergence survey
Surveyors and locations	Bridget Parslow (A) Elaine Charlson (B) Simon Holmes (C)	Bob Brittian (A) Ali Barnes (B) Simon Holmes (C)	Bridget Parslow (A) Elaine Charlson (B) Bob Brittian (C)
Weather Conditions (Start)	13.5°C, 70% cloud cover Humidity 79% Dry Wind Beaufort 0	16°C, 10% cloud cover Humidity 84% Damp – light rain Wind Beaufort 0	21°C, 5% cloud cover Humidity 59% Dry Wind Beaufort 1
Sunset/Sunrise	20.27	05.11	21.12
Start time	20:05	03.11	20.50
Finish Time	22.20	05.15	23:00
Weather Conditions (Finish)	10°C 60% cloud cover Humidity 90% Dry Wind Beaufort 0	15°C, 80% cloud cover Humidity 89% Dry Wind Beaufort 1 gusting 2	14°C, 0% cloud cover Humidity 94% Dry Wind Beaufort 1

Table 2. Summary of bat calls recorded in the vicinity of 140 Kidmore End Road.

Date	Surveyor Position	Time	Seen	Heard	Species	Comments
01/05/2017	A	20.05 to 22.20	Y	Y	45 and 55 pip and noctule	55 pip seen and heard at 20.45 transiting from a neighbours garden. The first 45 pipe was heard and seen foraging at 21.13. Thereafter fairly constant 45 and 55 pipe activity until 21.37. Noctule was heard at 21.19.
Ditto	B	20.05 to 22.20	Y	Y	45 and 55 pip	No bats were observed and a very low number of calls was recorded (three in total) from survey beginning to survey end. A 55 pip was heard at 21.14 and again at 21.24 and a 45 pip at 21.15 only.
Ditto	C	20.05 to 22.20	Y	Y	45 and 55 pip and noctule	Fairly continuous 45 pip and 55 pip feeding and social calls from 20.47 until survey end, with very few sightings – bats thought to be foraging behind the surveyor. Noctule heard at 21.20.



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Date	Surveyor Position	Time	Seen	Heard	Species	Comments
16/05/2017	A	03.11 to 05.15	Y	Y	45 pip and noctule.	Despite the optimum conditions, very little bat activity was recorded. The first bat heard was a noctule at 04.29 and then again at 04.53. At 04.45 a 45 pip was seen entering the neighbours property.
Ditto	B	03.11 to 05.15	Y	Y	None	Neither the surveyor nor the BatLogger M detected any calls throughout the entire survey.
Ditto	C	03.11 to 05.15	Y	Y	45 and 55 pip and noctule.	No bat activity until the first 45 pip heard at 03.59 and then again at 4.35. At 4.30 a 55 pip was seen and heard entering the rear roof. Noctule seen and heard transiting high above the property at 4.53.
01/06/2017	A	20.50 to 23.00	Y	Y	45 and 55 pip and noctule	Noctule heard in transit at 21.18 but not seen. Both 45 and 55 pips heard but not seen foraging and social calling from 22.19 until survey end. No bats seen.
Ditto	B	20.50 to 23.00	Y	Y	45 and 55 pip and noctule	Again noctule heard in transit at 21.18. Again both 45 and 55 pips heard but not seen foraging and social calling from 22.20 until survey end. No bats seen.
Ditto	C	20.50 to 23.00	Y	Y	45 and 55 pip	Constant 45 and 55 pip activity from 21.43 until survey end with the first 45 pip being seen on the thermal camera at 22.29 transiting from left to right above the property. There were 5 more sightings on the thermal camera of 45 and 55 pips foraging in the area but most calls are believed to have been from bats foraging behind the surveyor.

4. Conclusions/Interpretation

- 4.1 The batlogger recorders logged calls on each of the surveys although, despite this property being within 1000 metres of a Clayfield Copse with known daubentons, noctule and pipistrelle roosts, the number of calls recorded was extremely low. Recordings were made from the common pipistrelle, *Pipistrellus pipistrellus*, soprano pipistrelle, *P.pygmaeus*, noctule, *Nyctalus noctula*, all foraging and/or transiting around the site.
- 4.2 The lack of vegetation within the rear garden of 140 Kidmore End Road is likely to have influenced the foraging behavior and hence the lack of bat activity observed and recorded during the surveys.
- 4.3 The bat species identified at 140 Kidmore End Road were also recorded within the 2 kilometer search undertaken by the Berkshire and South Bucks bat group. The droppings found in the loft were identified as BLE by DNA testing however, no BLE calls were recorded during the surveys.
- 4.4 The first pipistrelle calls during the dusk emergence surveys were within 18 minutes of sunset and the bats was observed flying in from the direction of the neighbouring property, an early emergence indicates that it is likely to be roosting locally in the neighbouring properties. During the dawn return to roost survey, a common pipistrelle was observed entering the apex of the gable end of the neighbouring property (142 Kidmore End Road). Noctule calls were heard on all surveys, with the earliest being 16 minutes after sunset, indicating that it is roosting locally. The Berkshire and South Bucks bat group records also included noctule bats in the 2 kilometre search area and Clayford Copse provides suitable foraging and has known bat roosts. It is therefore highly likely to be roosting at Clayfield Copse.



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- 4.5 The bat calls and field observations provide a high degree of confidence in support of the opinions set out in this report. The activity surveys were dominated by the common and soprano pipistrelles. The noctule activity was considered to be a solitary individual. Despite good foraging conditions so far this season (2017) the bat activity encountered was moderate at best, with low levels of bat activity during emergence and re-entry surveys, this has been a common occurrence on survey sites across Berkshire and North Hampshire during 2017.
- 4.6 The emergence and re-entry survey data combined with the preliminary findings provide a high level of confidence to support our opinion that 140 Kidmore End Road is a day roost for BLE and soprano pipistrelle bats.
- 4.7 In defining the roost types, there is no evidence of maternity use by the aforementioned species and the evidence supports this opinion in so far as both common and soprano pipistrelle bats may use a number of sites in the summer but are often loyal to the same site for many years. The location and number of droppings indicate that the property has been used (historically) as a day/summer roost for a low number <5, BLE bats. The solitary soprano pipistrelle is highly likely to be using the building as a day roost.
- 4.8 The proposed work will lead to a minor negative impact at a local level for the BLE and soprano pipistrelle bats, due to the damage/destruction of the summer day roost in the roof and an EPS licence must be obtained from Natural England in order for the works to be legally undertaken.
- 4.9 Mitigation measures (against the risk of disturbance, killing or injuring bats during the work), and compensation measures (to provide continued bat roosting provision at the site) will need to be implemented as conditions of the EPS licence.
- 4.10 An outline method statement has been included to enable the Local Planning Authority to have regards to the requirements of the Habitats Directive... *in the exercise of their functions in considering the planning application*. A full method statement will be prepared as part of an EPS licence application to be submitted to Natural England.

5. Outline Method Statement for Planning

- 5.1 This outline mitigation strategy will form the basis of the EPS Method Statement to be submitted to Natural England following receipt of planning permission. It aims to address:
- Timing and methods of activities
 - Provision of new bat roosts
 - Impact on and maintenance of existing roots
 - Lighting and habitat provisions
- 5.2 Timing and methods of activity: All contractors must receive a 'Toolbox' talk prior to the commencement of work, to outline the status of the building, conditions of the licence and Method Statement.



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5.3 High risk works must be directly supervised by a licenced bat ecologist/ecological clerk of works including any roof stripping or deconstruction; this must be undertaken carefully by hand. Care must be taken when removing the ridge and hanging tiles exposing the wall plates or if lead work is to be removed as bats are most likely to be found in these places. Bats may require capture by hand and this must be undertaken by the licenced ecologist and the bats kept in an escape proof container, with hanging cloths, food and water and covered to keep light out. They must remain in the control of the licenced ecologist prior to release one hour after sunset the same evening at the site address, providing that weather conditions are favourable. When the weather is not favourable, they should be maintained with shelter, food and water and released as soon as conditions are appropriate.

5.4 Provisional timetable of works see Table 3 below:

Table 3.

Stage	Outline dates	Works
0	From receipt of planning permission to receipt of EPS licence	- Deconstruction work internally to within 1 metre vertically of the ceiling - All internal works - External works such as footings/drainage and ground floor brick work
1	1 st September 2017 (or receipt of licence, whichever later) to 31 st October 2017.	- Dawn re-entry survey on the morning of deconstruction - Loft inspection on the morning prior to demolition - Toolbox talk prior to deconstruction of the roof - Removal of any roof covering under supervision of licenced bat ecologist - Capture by hand net of any bats during deconstruction of roof - Release of bats either the same evening or as soon as conditions permit.
2	1 st November 2017 to 1 st March 2018	Construction of new roof and associated works
3	Two seasons following completion of works	Monitoring check to confirm bat access points provided/installed correctly in new roof

5.5 Due to the nature of the work and lack of available bat roost provision mitigation in the form of temporary bat boxes is unfeasible and new roost provision will not be possible until the new roof is installed: Therefore timing of the deconstruction work is critical to maintaining the favourable conservation status of bats at this site. The deconstruction must be undertaken in accordance with the schedule at Table 3.

5.6 The new roof must be bat friendly and designed to allow bat access and this must take the form of supported cut flaps of underfelt at the top of any external access points. Where underfelt is required it must be Type 1F bitumastic and no other fabric based lining must be used. Breathable membranes must not be used as they entangle and kill bats. Suitable bat access tiles must be installed as close to the ridge as possible though not in or immediately adjacent to any hips. They should be provided at a rate of one per 5 – 10 metre of roof face (either south, east or west sides of the roof) and should be at least but little more than 20 mm wide for the full width of one tile and may be provided through curved tiles, ventilation tiles in the roof face, for example, Tudor roof tile products, or at the ridge (with any internal mesh/felt removed) or via shaped pieces of lead sheet shaped for the same purpose. Ridge tiles such as Keymer louvered vent ridge with the slot opened up to 20mm may also be used.



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- 5.7 Lighting: The exact lighting proposals are not known at this stage but where new external lighting is provided the following guide must be adopted:

High wattage or high level security lights must not be used. Low level, low wattage lighting (e.g. lights below 1 metre, bollard lights) suitable for use around bat roosts must be used.

All lights must be angled or screened to minimise light pollution up onto the eaves/soffits, and onto the surrounding vegetation.

If illumination of the driveway, entrance or rear garden is required, it must be low level, low wattage lighting, and incorporating a PIR sensor on short illumination timer.

- 5.8 Habitat: The garden is presently undergoing landscaping and full details are not yet available. Planting flowers that attract insect prey is to be encouraged and should include night scented specimens, flowers that vary not only in colour but shape, pale flowers that are more easily seen in poor light, single flowers tend to produce more nectar and flowers with insect friendly landing platforms and short florets such as daisy or carrot families. Trees and mixed herbaceous shrubs are also important for insects and when combined with a water feature such as a pond or wet area will encourage insect prey.
- 5.9 Monitoring: A minimum of one monitoring visit is required on completion +1 Year, this should take the form of an internal inspection and may also include an external inspection of roost features, as only individual/small numbers of bats of a common species are present, no detailed monitoring is proposed (Mitchell-Jones, 2004 – Figure 4, page 39).

6. References

Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edition).
Bat Workers Manual – Mitchell-Jones & McLeish 2004.
Bat Mitigation Guidelines – Natural England 2006.
The Conservation and Habitat Regulations – 2010.

7. Queries

Any queries regarding this report should be addressed, in the first instance, to Urban Tree Experts:

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Bat Licence CLSO03440



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APPENDIX 1

23 November 2016

Re: Bat Identification Results for Katie, Tree Surveys

Bat job number 8543, received 10 October 2016

Sample labelled: Simon Holmes 140 Kidmore End Road, Caversham 06/10/2016

PCR amplification successful. DNA sequence:

GTCTGATGTGTAGTGTATGGCTAAAAAAGTCCTGTTAAGATTTGTAGTGCTAGGCAA
ATGCCTAGAAGAGATCCAAAGTTTCATCATGATGAAATATTTGAGGGAGCAGGTAAG
TCAATG

Phylogenetic analysis identification: *Plecotus auritus*

Confirmed by maximum likelihood, maximum parsimony, bootstrap 100%.

Best regards,

The EcoWarwick Team

The results and conclusions in this report are based on an investigation of mtDNA sequence analysis. The results obtained have been reported with accuracy. The interpretation represents the most probable conclusion for the DNA sequence obtained rather than the sample provided given current levels of species data. It should be borne in mind that different circumstances might produce different results. Therefore, care must be taken with interpretation of the results especially if they are used as the basis for commercial recommendations.

Professor Robin Allaby

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APPENDIX 2



Client for whom search carried out: Urban Tree Experts
 Client Purchase Order Number: N/A - Simon Holmes confirmed
 Client Reference: 140 Kidmore End Road RG4 8SP

Person requesting search: Simon Holmes
 Date of search: 08/06/2017

Search of Group Bat Records 2km radius centred on SU71767 77138 (BSBBG Reference 650UTE)

I have found the following records within your requested search area:

Grid reference	Species	Location	Date / Year	Additional information	Numbers if known	Km from centre
SU700759	Plecotus auritus	Unknown	26 Jul 2005	Rescued	1	2.1
SU7056075633	Nyctalus noctula	13 Buxton Avenue, Caversham	17 May 2016	Aural bat detector - In flight		1.9
SU7056075633	Pipistrellus pipistrellus	13 Buxton Avenue, Caversham	17 May 2016	Aural bat detector - In flight		1.9
SU7056075633	Pipistrellus pygmaeus	13 Buxton Avenue, Caversham	17 May 2016	Aural bat detector - In flight		1.9
SU7056075633	Pipistrellus sp.	13 Buxton Avenue, Caversham	26 Oct 2015	Ten small-sized droppings scattered in the roof space		1.9
SU7077178101	Nyctalus noctula	Kidmore end	Jul 2015	Aural bat detector		1.4
SU7077178101	Plecotus auritus	Kidmore end	Jul 2015	Aural bat detector		1.4
SU7077178101	Pipistrellus nathusii	Kidmore end	Jul 2015	Aural bat detector		1.4
SU7077178101	Pipistrellus pipistrellus	Kidmore end	Jul 2015	Aural bat detector		1.4
SU7077178101	Myotis sp.	Kidmore end	Jul 2015	Aural bat detector		1.4
SU7077178102	Pipistrellus pipistrellus	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178103	Pipistrellus nathusii	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178104	Pipistrellus sp.	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178105	Myotis sp.	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178106	Eptesicus serotinus	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178107	Plecotus auritus	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178107	Nyctalus noctula	Kidmore end	Aug 2015	Aural bat detector		1.4
SU7077178108	Plecotus auritus	Kidmore end	05 Sep 2014	Roost visit - transitional droppings confirmed by DNA	1	1.4
SU7077178109	Pipistrellus pipistrellus	Kidmore end	03 Sep 2015	Emergence survey - Emerged from under tiles	2	1.4
SU7077178110	Pipistrellus pipistrellus	Kidmore end	29 Sep 2014	Emergence survey - transitional returned behind burgular alarm	2	1.4
SU707781	Plecotus auritus	Chalkhouse Green	05 Aug 2014	Droppings - Maternity roost		1.4
SU709759	Plecotus auritus	Unknown	24 Apr 2006	Rescued - Adult male	1	1.4
SU7112776920	Plecotus sp.	15 Highdown Avenue, Emmer Green	27 May 2015	Aural bat detector - In flight		0.7
SU7112776920	Pipistrellus pipistrellus	15 Highdown Avenue, Emmer Green	27 May 2015	Aural bat detector - In flight		0.7
SU713755	Pipistrellus pygmaeus	191-197 Hemdean Rd, Caversham	24 Jul 2012	Foraging together through the gardens, often seen in this area	2	1.6
SU7176	Myotis mystacinus/brandtii	Brooklyn Drive, Emmer Green	02 May 2013	Aural bat detector - In flight	1	0.2
SU7176	Pipistrellus pipistrellus	Brooklyn Drive, Emmer Green	02 May 2013	Foraging - Aural bat detector	1	0.2
SU7176	Pipistrellus pygmaeus	Brooklyn Drive, Emmer Green	02 May 2013	Foraging - Aural bat detector	1	0.2
SU7176	Plecotus auritus	Brooklyn Drive, Emmer Green	06 Dec 2012	Hibernating brown long-eared in roof space and droppings, non-breeding/transitional roost		0.2
SU7176	Plecotus auritus	*TVERC	01 Jul 2011	Aural bat detector	1	1.0

SU7176	Myotis nattereri	*TVERC	01 Jul 2011	Aural bat detector	1	1.0
SU7176	Myotis daubentonii	*TVERC	01 Jul 2011	Aural bat detector	1	1.0
SU7176	Myotis mystacinus	*TVERC	01 Jul 2011	Aural bat detector	1	1.0
SU7176	Nyctalus noctula	*TVERC	01 Jul 2011	Aural bat detector	1	1.0
SU7176	Pipistrellus pygmaeus	*TVERC	01 Jul 2011	Aural bat detector	1	1.0
SU7176	Pipistrellus pipistrellus	*TVERC	01 Jul 2011	Aural bat detector	1	1.0
SU717755	Pipistrellus pipistrellus	Caversham	10 Jul 2012	Bat rescued	1	1.6
SU717755	Pipistrellus sp.	Caversham	21 Aug 2011	Rescued - Immediate release	1	1.6
SU718753	Pipistrellus pipistrellus	8 Derby Road, Caversham	15 Jul 2005	Rescued - Juvenile bat	1	1.8
SU718772	Plecotus auritus	Crawshay Drive, Emmer Green, RG4 8SX	12 Aug 2015	Bat found dead in garden	1	0.1
SU7191876788	Pipistrellus pipistrellus	Reading Golf Club, Kidmore End Road RG4 8SG	09 Jun 2015	Injured Bat Record	1	0.4
SU719764	Nyctalus leisleri	School Lane, Emmer Green	17 Jul 2013	Aural bat detector - In flight	1	0.7
SU719764	Pipistrellus pygmaeus	School Lane, Emmer Green	17 Jul 2013	Aural bat detector - In flight	1	0.7
SU719764	Pipistrellus pipistrellus	School Lane, Emmer Green	17 Jul 2013	Aural bat detector - In flight	1	0.7
SU719764	Nyctalus noctula	School Lane, Emmer Green	17 Jul 2013	Aural bat detector - In flight	1	0.7
SU719764	Plecotus auritus	School Lane, Emmer Green	17 Jul 2013	Aural bat detector - In flight	1	0.7
SU719772	Pipistrellus sp.	12 Surley Rd, Emmer Green RG4 8LY	07 Jul 2007	Aural bat detector - In flight		0.2
SU7199975916	Plecotus sp.	123 Peppard Road, Emmer Green	29 Apr 2015	C. 30 medium-sized bat droppings were found scattered below the ridge		1.2
SU7205676791	Pipistrellus pipistrellus	Chalgrove Way, Emmer Green	28 May 2014	2 emerged from neighbouring property to the west - Aural bat detector		0.5
SU7205676791	Nyctalus noctula	Chalgrove Way, Emmer Green	28 May 2014	Aural bat detector - In flight		0.5
SU7205676791	Pipistrellus sp.	Chalgrove Way, Emmer Green	08 May 2014	Aural bat detector - In flight		0.5
SU7205676791	Pipistrellus sp.	Chalgrove Way, Emmer Green	24 Feb 2014	Five small, old bat droppings were found stuck to the chimney		0.5
SU7210675716	Pipistrellus pipistrellus	Chiltern Road, Caversham	08 May 2014	Aural bat detector - In flight		1.5
SU7210675716	Nyctalus noctula	Chiltern Road, Caversham	08 May 2014	Aural bat detector - In flight		1.5
SU7210675716	Pipistrellus pygmaeus	Chiltern Road, Caversham	08 May 2014	Aural bat detector - In flight		1.5
SU7211276926	Vespertilionidae sp.	14 Burnham Rise, Emmer Green	03 Sep 2015	Aural bat detector - In flight		0.4
SU7211276926	Plecotus sp.	14 Burnham Rise, Emmer Green	03 Sep 2015	Two emergences, one around chimney and one from the hip tiles on south side - Aural bat detector		0.4
SU7211276926	Pipistrellus pygmaeus	14 Burnham Rise, Emmer Green	03 Sep 2015	Aural bat detector - In flight		0.4
SU7211276926	Pipistrellus pipistrellus	14 Burnham Rise, Emmer Green	03 Sep 2015	One emergence from southern facing hipped section of roof - Aural bat detector		0.4
SU7211276926	Nyctalus noctula	14 Burnham Rise, Emmer Green	03 Sep 2015	Aural bat detector - In flight		0.4
SU7211276926	Plecotus sp.	14 Burnham Rise, Emmer Green	20 Aug 2015	One emergence around chimney and recorded foraging in trees nearby - Aural bat detector		0.4
SU7211276926	Pipistrellus pipistrellus	14 Burnham Rise, Emmer Green	20 Aug 2015	Aural bat detector - In flight		0.4
SU7211276926	Pipistrellus pygmaeus	14 Burnham Rise, Emmer Green	20 Aug 2015	Aural bat detector - In flight		0.4
SU7211276926	Pipistrellus sp.	14 Burnham Rise, Emmer Green	14 Jul 2015	C. 10 droppings on brickwork of party wall; c. 20 on floor by wall in roof space.		0.4
SU7211276926	Plecotus sp.	14 Burnham Rise, Emmer Green	14 Jul 2015	C. 50 medium sized bat droppings found at eastern end of roof space		0.4
SU7211476927	Nyctalus noctula	13 Burnham Rise, Emmer Green	10 Aug 2016	Aural bat detector - In flight		0.4
SU7211476927	Pipistrellus pygmaeus	13 Burnham Rise, Emmer Green	10 Aug 2016	1 emerged from the hanging tiles at the front - Aural bat detector		0.4
SU7211476927	Plecotus auritus	13 Burnham Rise, Emmer Green	10 Aug 2016	Three emerged from the house (confirmed by DNA analysis of droppings) - Aural bat detector		0.4
SU7211476927	Pipistrellus pipistrellus	13 Burnham Rise, Emmer Green	10 Aug 2016	Aural bat detector - In flight		0.4
SU7218577281	Pipistrellus pipistrellus	360 Peppard Road,Caversham	25 Aug 2015	Aural bat detector - In flight		0.4
SU7218577281	Pipistrellus sp.	360 Peppard Road,Caversham	25 Aug 2015	Aural bat detector - In flight		0.4

SU7218577281	Pipistrellus pygmaeus	360 Peppard Road,Caversham	12 Aug 2015	Aural bat detector - In flight		0.4
SU7218577281	Pipistrellus pipistrellus	360 Peppard Road,Caversham	12 Aug 2015	Aural bat detector - In flight		0.4
SU7218577281	Nyctalus noctula	360 Peppard Road,Caversham	12 Aug 2015	Aural bat detector - In flight		0.4
SU7218577281	Pipistrellus pipistrellus	360 Peppard Road,Caversham	29 Jul 2015	Aural bat detector - In flight		0.4
SU7218577281	Pipistrellus pygmaeus	360 Peppard Road,Caversham	29 Jul 2015	Aural bat detector - In flight		0.4
SU7218577281	Nyctalus noctula	360 Peppard Road,Caversham	29 Jul 2015	Aural bat detector - In flight		0.4
SU7218577281	Eptesicus serotinus	360 Peppard Road,Caversham	19 Feb 2015	Former occasional day roost. Approximately 20 - 30 large-sized bat droppings found on the floor		0.4
SU7218577281	Plecotus sp.	360 Peppard Road,Caversham	19 Feb 2015	Couple of medium droppings found in roof space.		0.4
SU7218577288	Plecotus sp.	362 Peppard Road, Caversham	07 Sep 2015	Not currently in use. One old dropping was located on top of the front most chimney stack internally		0.4
SU724768	Pipistrellus pygmaeus	Clayfield Copse, Earley	30 May 2012	Sighting on edge of playing field in flight - Aural bat detector	2	0.7
SU724771	Pipistrellus pygmaeus	Clayfield Copse, Earley	30 May 2012	Sighting in flight - Aural bat detector	3	0.7
SU725769	Pipistrellus pipistrellus	Clayfield Copse, Earley, Reading	29 Apr 2012	Bat box check - 1 in 1FF bat box	1	0.8
SU725769	Plecotus sp.	Clayfield Copse, Earley, Reading	29 Apr 2012	Bat box check - 3-4 droppings likely to be long-eared in 2F-DFP box	1	0.8
SU725769	Pipistrellus pygmaeus	Clayfield Copse, Earley, Reading	10 Dec 2011	Bat box check - 1 in box	1	0.8
SU725769	Pipistrellus pygmaeus	Clayfield Copse, Earley, Reading	30 Oct 2011	Bat box check - 3 in a box	3	0.8
SU725769	Pipistrellus pipistrellus	Clayfield Copse, Earley, Reading	30 Oct 2011	Bat box check - 3 in box	3	0.8
SU725769	Pipistrellus pygmaeus	Clayfield Copse, Earley, Reading	02 Oct 2011	Bat box check - 6 in box	6	0.8
SU725769	Plecotus auritus	Clayfield Copse, Earley, Reading	02 Oct 2011	Bat box check - 1 in box	1	0.8
SU725769	Pipistrellus sp.	Clayfield Copse, Earley, Reading	14 Aug 2011	Bat box check - 2 in box	2	0.8
SU725769	Plecotus auritus	Clayfield Copse, Earley, Reading	14 Aug 2011	Bat box check - 15 in box	15	0.8
SU725769	Pipistrellus pygmaeus	Clayfield Copse, Earley, Reading	14 Aug 2011	Bat box check - 3 in box	3	0.8
SU726772	Pipistrellus pipistrellus	Blackhouse Woods	11 Jun 2011	In flight, by new noctule roost - Aural bat detector	1	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	11 Jun 2011	Calls coming from roost, no bats emerged - Aural bat detector	1	0.9
SU726772	Pipistrellus pygmaeus	Blackhouse Woods	11 Jun 2011	In flight, by new noctule roost - Aural bat detector	1	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	04 Sep 2010	Emerged from new roost - Aural bat detector	72	0.9
SU726772	Eptesicus serotinus	Blackhouse Woods	19 Jul 2005	Aural bat detector - In flight	1	0.9
SU726772	Pipistrellus sp.	Blackhouse Woods	19 Jul 2005	Aural bat detector - In flight	3	0.9
SU727763	Plecotus auritus	35 Lowfield Road, Caversham Park Village	16 Jul 2008	Injured bat record	1	1.3
SU7278	Pipistrellus pipistrellus	Bishopsland Farm	13 Jul 2011	NBMP Waterway survey - Aural bat detector	1	1.5
SU7278	Eptesicus serotinus	Bishopsland Farm	13 Jul 2011	NBMP Waterway survey - Aural bat detector	1	1.5
SU7278	Nyctalus noctula	Bishopsland Farm	13 Jul 2011	NBMP Waterway survey - Aural bat detector	1	1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	26 Jul 2007	Aural bat detector		1.5
SU7278	Eptesicus serotinus	Bishopsland Fm, Oxon	26 Jul 2007	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	26 Jul 2007	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	12 Jul 2007	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	12 Jul 2007	Aural bat detector		1.5
SU7278	Nyctalus noctula	Bishopsland Fm, Oxon	12 Jul 2007	Aural bat detector		1.5
SU7278	Nyctalus noctula	Bishopsland Fm, Oxon	19 Jul 2006	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	19 Jul 2006	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	19 Jul 2006	Aural bat detector		1.5
SU7278	Nyctalus noctula	Bishopsland Fm, Oxon	05 Jul 2006	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	05 Jul 2006	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	05 Jul 2006	Aural bat detector		1.5
SU7278	Nyctalus noctula	Bishopsland Fm, Oxon	25 Jul 2005	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	25 Jul 2005	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	25 Jul 2005	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	11 Jul 2005	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	11 Jul 2005	Aural bat detector		1.5

SU728771	Pipistrellus nathusii	Clayfield Copse	21 Sep 2013	Bat box check	2	1.1
SU732764	Pipistrellus pipistrellus	1 Framlington Drive, Caversham, Reading	12 Jul 2005	Injured juvenile male bat	1	1.6
SU710758	Pipistrellus sp.	Unknown	2002	Breeding roost		1.5
SU715755	Plecotus auritus	Hemdean Rise, Caversham, Reading.	1998	Found injured	1	1.6
SU715755	Pipistrellus nathusii	Caversham, Reading	1997	Probable breeding in house	1	1.6
SU715765	Plecotus auritus	Emmer Green, Reading.	1999	Flew into kitchen	1	0.6
SU7176	Plecotus auritus	*TVERC	01 May 1999	field record	1	0.6
SU7176	Plecotus auritus	Highdown School, Emmer Green	1995	Hibernation check - Hibernating in cellar	1	0.9
SU7176	Plecotus auritus	*TVERC	01 Nov 1993	House visit	1	0.3
SU723773	Pipistrellus pygmaeus	Reading	16 Jun 2004	Roost emergence count data		0.6
SU723773	Pipistrellus pygmaeus	Reading	09 Jun 2004	Roost emergence count data	11	0.6
SU723773	Pipistrellus pygmaeus	Reading	2003	Roost emergence count data - No bats present during survey dates but were present at other times		0.6
SU723776	Pipistrellus pipistrellus 55kHz	The Dell, 16 Russett Glade, Emmer Green	16 Jun 2004	Roost monitoring - At rest		0.8
SU723776	Pipistrellus pipistrellus 55kHz	The Dell, 16 Russett Glade, Emmer Green	09 Jun 2004	Roost monitoring - At rest	11	0.8
SU725769	Nyctalus noctula	Clayfield Copse, Earley, Reading	1995	Breeding roost in tree	1	0.8
SU726772	Myotis daubentonii	Blackhouse Woods	18 Jun 1997	37 emerged from main roost - Aural bat detector	37	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	18 Jun 1997	8 emerged from main roost - Aural bat detector	8	0.9
SU726772	Vespertilionidae	10 Wychwood Crescent, Earley, RG6 5RA	24 Jun 1996	Barn survey	1	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	24 May 1996	Emerged from main roost - Aural bat detector	50	0.9
SU726772	Eptesicus serotinus	Blackhouse Woods	26 Apr 1996	Aural bat detector - In flight	1	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	25 Jul 1995	Emerged from main roost - Aural bat detector	11	0.9
SU726772	Myotis nattereri	Blackhouse Woods	25 Jul 1995	Emerged from roost 3 - Aural bat detector	12	0.9
SU726772	Myotis daubentonii	Blackhouse Woods	25 Jul 1995	Emerged from main roost - Aural bat detector	4	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	25 Jul 1995	Emerged from roost 2 - Aural bat detector	18	0.9
SU726772	Eptesicus serotinus	Blackhouse Woods	22 Sep 1994	Aural bat detector - In flight	1	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	17 Jul 1994	40 emerged from main roost - Aural bat detector	40	0.9
SU726772	Myotis daubentonii	Blackhouse Woods	17 Jul 1994	32 emerged from main roost - Aural bat detector	32	0.9
SU726772	Myotis daubentonii	Blackhouse Woods	24 Jun 1993	Emerged from main roost, 2 pregnant females caught - Aural bat detector	80	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	24 Jun 1993	Emerged from main roost - Aural bat detector	13	0.9
SU726772	Plecotus auritus	Blackhouse Woods	24 Jun 1993	Feeding over oaks - Aural bat detector	1	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	09 Jun 1993	Emerged from dip roost - Aural bat detector	13	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	14 May 1993	Main roost shared with Mn & Md - Aural bat detector	51	0.9
SU726772	Pipistrellus sp.	Blackhouse Woods	14 May 1993	Aural bat detector - Foraging in the woodland	2	0.9
SU726772	Myotis daubentonii	Blackhouse Woods	30 Jun 1992	Emerged from Nn and Daub shared tree roost - Aural bat detector	7	0.9
SU726772	Nyctalus noctula	Blackhouse Woods	30 Jun 1992	Emerged from Nn and Daub shared tree roost - Aural bat detector	2	0.9
SU7276	Plecotus auritus	*TVERC	24 Feb 1994	House visit	1	1.0
SU7278	Nyctalus noctula	Bishopsland Fm, Oxon	26 Jul 2004	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	26 Jul 2004	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	20 Jul 2004	Aural bat detector		1.5
SU7278	Nyctalus noctula	Bishopsland Farm	20 Jul 2004	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	12 Jul 2004	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	27 Jul 2003	Aural bat detector		1.5
SU7278	Nyctalus noctula	Bishopsland Fm, Oxon	27 Jul 2003	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	27 Jul 2003	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	11 Jul 2003	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	11 Jul 2003	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	19 Jul 2002	Aural bat detector		1.5
SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	19 Jul 2002	Aural bat detector		1.5

SU7278	Pipistrellus pipistrellus 45kHz	Bishopsland Farm	13 Jul 2002	Aural bat detector		1.5
SU7278	Pipistrellus sp.	Bishopsland Fm, Oxon	13 Jul 2002	Aural bat detector		1.5

BSBBG has agreed an exchange of data with TVERC which enables us to provide records belonging to them with the grid reference given to 1 km precision. Such records are indicated by *TVERC under location. Enquirers are recommended to contact TVERC direct to obtain full locations details. Please note that TVERC provides BSBBG with an annual update of their records, so they may hold records for your search area that BSBBG does not yet have access to. Requests for information may be submitted via the TVERC website www.tverc.org.uk

However I must, as usual, point out that our records should not be considered a complete record of bats in the area since we only record sites where we, as a Bat Group, have been called to assist members of the public or Natural England (what was English Nature) to deal with ‘bat problems’, recorded bats whilst undertaking bat group events and walks or taken part in National Monitoring of bats for the Bat Conservation Trust. Records from the general public and bat group members submitted to the records officer are also kept in the database. To be certain what bats may or may not be present it would be necessary to undertake a detailed bat survey at various times throughout the year.

All payment details will be contained within the invoice.

We are always striving to improve the quality and quantity of our records and therefore we welcome any records that you may obtain during any planned surveys in our area. Please submit records to records@berksbats.org.uk.



Urban Tree Experts

BS5837 – Tree Surveys – Ecological Consulting

APPENDIX 3



Re-entry location