

# BACTON LOW RISE REDEVELOPMENT



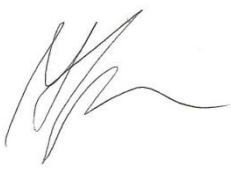



BAT SURVEY REPORT

NOVEMBER 2012



## QA

### Bacton Low Rise, Bat Survey Report

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## 1.0 INTRODUCTION

- 1.1 Greengage Environmental LLP were commissioned to undertake a Bat Survey on the site of the Bacton Low Rise housing estate, in the London Borough of Camden.
- 1.2 An Ecological Extended Phase 1 Habitat survey carried out in July 2012 in which we identified the habitats types on site. Furthermore, whilst there were no opportunities for bats to be roosting on site, some potential was identified for bats to be using adjacent habitats for commuting or foraging. So as to provide details on how areas adjacent to the site may be being used and how to avoid any impact from the proposed development surveys were recommended for bat activity in the area.
- 1.3 It has been assumed that all areas of the application site and associated habitats will be affected by any future plans (directly or indirectly), and as such this report, identifies potential ecological constraints relating to the entire site with respect to these species.
- 1.4 The recommendations and opinions expressed in this report are based on the combination of information stated, site observations and feedback from the consultation exercise.

### AIMS OF SURVEY

- 1.5 The purpose of the survey was to determine if there are any features or habitats on site that could potentially support bats. The aims of the survey are to:
- Determine the presence/absence of species;
  - Determine the intensity of bat activity both spatially and temporally to help estimate bat populations;
  - Determine the type of activity, most usually
    - foraging ( by feeding buzzes);
    - commuting (by high directional pass rates);
    - mating (by mating social calls);
  - Find roosts by tracking back bat flight paths or observing dawn flight activity at roosts; and/or
  - Find emergence of bats from built structures or trees.
- 1.6 By using a collation of existing data for the area to support the survey, it is possible to determine the presence/absence of bats across the site and in the wider area. This information can then be used to determine the form and extent of any mitigation that would be required if bats were found to be present.

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## **SITE DESCRIPTION**

- 1.7 The assessment site covers an area of approximately 1.46 hectares (ha) and is approximately centred on National Grid Reference TQ280852, OS Co-ordinates 528084, 185243.
- 1.8 The site can be split into two areas; referred to in this instance as northern and southern area. The northern area (0.53 ha) contains a number of disused commercial buildings and an associated works yard. The remaining buildings in this area are associated with the District Housing Office and the Bacton TRA Hall. The southern area (0.93 ha) solely consists of the residential buildings of the low rise housing estate and associated landscaping, parking and hardstanding. There are very few green areas directly on site, with the majority of space consisting of buildings or hardstanding.
- 1.9 The Thameslink railway line runs east to west directly bordering the north of the site with areas of residential housing extending beyond this. The railway line runs under Lismore Circus; a small area of amenity grassland and scattered mature London Plane and Ash trees to the north of the estate. Between the low rise estate and Lismore Circus sits Bacton Tower with the low rise estate extending to the south west of the site. A small open amenity grassland area with a number of tennis courts can be found to the south east with further areas of residential flats and housing, with associated gardens, extending further south, south east and east. The Kentish Town Church also sits to the east and is surrounded with associated scattered trees and grassland. The open and naturalised areas of Parliament Hill and Hampstead Heath, with a number of bathing and swimming ponds, are found further north (approximately 0.8km).
- 1.10 It is the area surrounding Lismore Circus that was identified as having potential for bats to be using this for commuting or as a foraging resource. As such, the survey effort will concentrate here.

## **PROPOSED DEVELOPMENT**

- 1.11 It is understood that the plans include the demolition of many of the existing buildings allowing a large scale regeneration of the estate.

## **POLICY AND LEGISLATIVE CONTEXT**

### **National Policy**

- 1.12 All UK bats and their roosts are protected by law. Since the first legislation, introduced in 1981, that gave strong legal protection to all bat species and their roosts in England, Scotland and Wales, additional legislation and amendments have been implemented in all countries within the UK.



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- 1.13 Six of the 18 British species of bat have Biodiversity Action Plans (BAPs) assigned to them, which highlights the importance of specific habitats to species, details of the threats they face and proposes measures to aid in the reduction of population declines.
- 1.14 Although habitats that are important for bats are not legally protected, care should be taken when dealing with the modification or development of an area if aspects of it are deemed important to bats such as flight corridors and foraging areas.

### **Wildlife & Countryside Act (1981)**

- 1.15 The Wildlife & Countryside Act 1981 (WCA) was the first legislation to provide protection for all bats and their roosts in England, Scotland and Wales (earlier legislation gave protection to horseshoe bats only.)
- 1.16 All eighteen British bat species are listed in Schedule 5 of the Wildlife and Countryside Act, 1981 and under Annex IV of the Habitats Directive, 1992 as a European protected species. They are therefore fully protected under Section 9 of the 1981 Act and under Regulation 39 of the Conservation (Natural Habitats etc) Regulations, 1994, which transposes the Habitats Directive into UK law. Consequently, it is an offence to:
- Deliberately capture, injure or kill a bat;
  - Intentionally or recklessly disturb a bat in its roost or deliberately disturb a group of bats;
  - Damage or destroy a bat roosting place (even if bats are not occupying the roost at the time);
  - Possess or advertise/sell/exchange a bat (dead or alive) or any part of a bat; and
  - Intentionally or recklessly obstruct access to a bat roost.
  - This legislation applies to all bat life stages.
- 1.17 The implications of the above in relation to the proposals are that where it is necessary during construction to remove trees, buildings or structures in which bats roost, it must first be determined that work is compulsory and if so, appropriate licenses must be obtained from DEFRA.

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## 2.0 METHODOLOGY

### PRELIMINARY ASSESSMENT

- 2.1 From local records obtained from London Bat Group (Appendix 1.0), the wider area is known to provide suitable habitat for bats and there are frequent records of bats in the vicinity.
- 2.2 The initial Phase 1 Ecological Assessment carried out in July 2012 noted a number of features of potential value to bats that included;
- Potential bat foraging habitat associated with the vegetation on site and on adjacent pathways, railway lines and roads (mostly surrounding Lismore Circus, to the north of the Southern area and west of the Northern area); and
  - Suitable commuting corridors from several areas known to support bat populations, including Hampstead Heath and Regents Park.
- 2.3 For these reasons, and given the legal protection afforded to bats, it was recommended that emergence and activity surveys should be completed to confirm whether or not bats are using the application site.
- 2.4 Visual assessments of the trees and buildings on site and an assessment of the suitability of the habitats present for bats were carried out during the initial Phase 1 Survey site walkover, informing the bat emergence and activity survey. The area was surveyed for bats signs, including the presence of droppings, urine staining, grease marks and signs of food remnants such as moth and butterfly wings.
- 2.5 The potential access points, roost locations, foraging areas and commuting routes were identified. This information was used to inform the placement of surveyors during the emergence and activity surveys and help further assess the possible implications for bats on site with the proposed redevelopment.

### EMERGENCE AND ACTIVITY SURVEY

- 2.6 Dusk surveys were undertaken on the 8<sup>th</sup> and 14<sup>th</sup> August 2012 (sunset 20:36 and 20:24 respectively) with an additional dawn survey on 15<sup>th</sup> August 2012 (sunrise 05:46). The emergence and activity surveys were undertaken during clear and warm conditions with an average temperature of 18 °C. The dusk surveys commenced approximately 1 hour before sunset and were completed 1 hour after sunset. Surveyors were positioned near the entrance of Lismore Circus to the north of the southern area and west of the northern area. The surveyors were equipped with a BatBox Duet Heterodyne detector to detect the sonar calls of any bats present in the area, which were recorded onto a Zoom Handy Recorder H2 device and subsequently analysed with Bat Sound software on a computer at the office to help with verification of species.

- 2.7 The dawn survey commenced approximately 1 hour before sunrise until 1 hour after sunrise; again 2 surveyors were present with the same methodology and equipment as the dusk surveys.

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### 3.0 BAT SURVEY RESULTS

#### ASSESSMENT OF THE SITE

- 3.1 The habitats directly present on site provide low bat foraging potential, with limited areas of vegetation present to encourage prey species. However, areas directly adjacent to the site, namely Lismore Circus and the bordering railway line to the north, do however provide potential for bats to use these either to commute to areas to forage as well as providing some foraging value. Dense areas of scrub bordering linear corridors that link the site to areas such as Hampstead Heath and Primrose Hill exist along the railway line itself and along bordering pathways that link to the Lismore Circus and then the development site in turn.
- 3.2 The buildings on site show no direct signs of bats, with no droppings, stains, scratch marks or other evidence that may suggest they are present. The roofs were in good condition and there was no sign of immediate access points that are in use, or of any bat activity within the roof spaces following internal inspections.

#### EMERGENCE AND ACTIVITY SURVEY

- 3.3 A total of 3 surveys were undertaken over a period of 7 days, this included 2 dusk surveys and 1 dawn survey. All surveys were in accordance with *Bat Conservation Trust, Bat Surveys Good Practice Guidelines*.<sup>1</sup> The weather was mild and dry on all survey occasions. The initial ecological assessment, a desktop review of the site, and an in situ assessment pre-commencement of the survey informed positions for the surveyors and the survey emergence and activity surveys focused attention in Lismore Circus and along the railway line that borders the site to the north.
- 3.4 Bat activity was observed and recorded across the site using the appropriate equipment. During both dusk survey no bats were observed anywhere on site.
- 3.5 During the dawn survey 1 pipistrelle (55kHz) was recorded foraging across Lismore Circus, having reached the site from the south; presumably along the railway line.
- 3.6 No direct emergence activity was observed.
- 3.7 No swarming was identified from the dawn survey around any trees or buildings which is another indication that bats were most likely only commuting or foraging and not roosting on-site.

#### TIMING & CONDITIONS

- 3.8 The survey visits were conducted in August 2012. This was an optimal time for a site walkover survey and an optimal period for the emergence and activity survey according to *Bat Conservation Trust, Bat Surveys Good Practice Guidelines*<sup>1</sup>.

- 3.9 Weather during the survey visits were conducive for surveying for bats, being dry and mild with temperatures averaging 18°C.

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## 4.0 RECOMMENDATIONS & MITIGATION

4.1 The survey results identified there were no roosting bats within trees or buildings in the site boundary or immediately adjacent, along with limited numbers of foraging bats in the area. Despite the low levels of foraging activity, a bat was observed using the area, highlighting the potential for others to also use the site albeit in very low numbers. Therefore suitable best practice and mitigation recommendations are outlined below:

- The construction of the proposed development will take place predominately during daylight hours. As such noise and general disturbance through construction activity will be limited.
- The proposed development will have lighting elements associated with the housing and back gardens, where possible these will be designed following appropriate guidance. This will include direction lighting, appropriate luminescence and protection from light spill and will ensure that all lighting is designed, operated and maintained under best practice conditions. No uncontrolled lighting will occur and light spill will be minimised.

4.2 Overall, it is considered that the proposed development is not likely to have an impact on bats using the site itself.

4.3 Further to the proposed mitigation it is considered unlikely that there will be a significant impact on bats in the local surrounding area, and the overall impact from the proposed development will be negligible.

4.4 However, whilst the application site has been identified as having low potential for foraging and roosting bats, and the impact will be negligible, the following enhancements measures for bats are recommended to increase the biodiversity value of the proposed development:

- Most species of bats will use bat boxes at various time of year but in particular they are favoured by pipistrelles, Leisler's, noctules and Myotis species. A pipistrelle was identified during the survey. With a pipistrelle being recorded from the survey and more individuals being known to be in the wider area we propose that bat boxes or bricks be incorporated on external features of the building; the use of these bat boxes will increase roosting opportunities for bats in the area. Bat boxes or bricks should be positioned in sunny locations mainly to the south or west façade of the building or tress. However, a variety of different locations would provide a range of climatic conditions and attract several different species. The optimal height for a bat box is 3 to 6 metres with an entrance free from obstruction and obstacles. The behaviour of bats varies from species to species but generally they will use a number of different roosts so it is best to erect

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several boxes in different locations across the site and include a range of aspects. Linking these bricks/boxes linearly to Lismore Circus or the train line will increase the likelihood of enhanced bat activity on site.

- In addition, appropriate lighting should be included. A lighting strategy can be formally agreed before construction but the design will be based upon guidance within the Institution of Lighting Engineers guidance notes for the reduction of obtrusive light and should include the following:
  - Directional street lighting: This can refer to light being controlled to provide some dark periods or direction control avoiding light spillage and unnecessary light pollution. It should be noted Lismore Circus already contains directional lighting, that should be maintained;
  - No high level security lighting; and
  - Low level bollard lighting.
- The reinstatement of landscaped areas with suitable native planting will encourage a range of invertebrate species to become established on site. All species of bat feed upon invertebrates, so an increase in invertebrate diversity and populations will encourage bats to forage and feed across the site.

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## 5.0 CONCLUSIONS

- 5.1 A single pipistrelle bat was recorded foraging over Lismore Circus. No roosts were identified within the buildings or trees on site, or within the immediate vicinity. We conclude that the area is utilised as a commuting path and could also provide foraging habitat due to the presence of invertebrate prey in the limited areas of scrub habitat.
- 5.2 A low level of impact on bats is expected from the proposed development, mainly associated with any increased light levels that may occur as a consequence of the proposed development. As such the use of directional lighting on the houses and the retention of a vegetated buffer zone should result in no adverse impact on bats. Further details are provided in the mitigation and recommendations section of this report.



## **APPENDIX 1.0 – CONSULTATION WITH LONDON BAT GROUP**

# London Bat Group

Affiliated to The Bat Conservation Trust



Bat records as requested by Morgan Taylor –

Records within 2km TQ 280852

Greengage Environmental LLP

By e-mail only

31<sup>st</sup> July 2012

Your Ref: Bacton Low Rises

## Bat Roosts

21/08/2010	Highgate Cemetery	TQ287867	Pipistrellus pipistrellus
08/07/2010	Constantine Road	TQ276857	Pipistrellus pipistrellus
17/06/2009	Kenwood	TQ276833	Pipistrellus pygmaeus
22/06/2008	Regents Park Terrace NW1	TQ286838	Pipistrellus pipistrellus
09/10/2007	Golders Hill Park	TQ260867	Plecotus auritus
06/09/2007	Regents Park	TQ276832	Nyctalus noctula
31/08/2007	Regents Park	TQ277833	Nyctalus noctula
29/05/2007	Golders Hill Park	TQ260867	Plecotus auritus
2007	Regent's Park	TQ276832	Nyctalus noctula
09/08/2006	St John's Wood	TQ267832	Pipistrellus pygmaeus
26/07/2006	St John's Wood	TQ267832	Pipistrellus pygmaeus
22/06/2006	South Hill Park NW3	TQ274859	Pipistrellus
22/06/2006	South Hill Park NW3	TQ274859	Pipistrellus
27/10/2005	Highgate	TQ285868	Pipistrellus
01/10/2005	Golders Hill Park	TQ260867	Plecotus auritus
Summer 2005	Golders Hill Park	TQ260867	Plecotus auritus
08/03/2005	Lyme Street NW1	TQ293840	Pipistrellus pipistrellus
09/05/2002	Golders Hill Park	TQ260867	Plecotus auritus
09/05/2002	Hampstead Heath	TQ260867	Plecotus auritus
18/08/2000	South Hill Park NW3	TQ274861	Pipistrellus
16/09/1999	Wadham Gardens NW3	TQ271840	Vespertilionidae
16/09/1999	Wadham Gardens NW3	TQ271840	Pipistrellus
13/07/1994	Clifton Hill, NW8	TQ261835	Pipistrellus
29/06/1993	Frognaal Way NW3	TQ262855	Pipistrellus
1986	Finsbury Park, N4	TQ3087	Vespertilionidae

## Hibernation Sites

12/11/2009	Hampstead Heath	TQ260867	Plecotus auritus
10/12/2008	Hampstead Heath	TQ260867	Plecotus auritus
20/02/2008	Hampstead Heath	TQ260867	Plecotus auritus

17/01/2008	Hampstead Heath	TQ260867	Plecotus auritus
06/03/2007	Hampstead Heath	TQ260867	Plecotus auritus
06/03/2007	Hampstead Heath	TQ2686	Plecotus auritus
06/12/2006	Hampstead Heath	TQ260867	Plecotus auritus
06/12/2006	Hampstead Heath	TQ2686	Plecotus auritus
27/02/2006	Hampstead Heath	TQ260867	Plecotus auritus
27/02/2006	Hampstead Heath	TQ2686	Plecotus auritus
15/01/2006	Hampstead Heath	TQ260867	Plecotus auritus
15/01/2006	Hampstead Heath	TQ2686	Plecotus auritus
08/03/2005	Lyme St NW1	TQ293840	Pipistrellus pipistrellus
12/02/2005	Hampstead Heath	TQ2686	Plecotus auritus
12/02/2005	Hampstead Heath	TQ261867	Plecotus auritus
12/02/2005	Hampstead Heath	TQ260867	Plecotus auritus
09/01/2005	Hampstead Heath	TQ2686	Plecotus auritus
09/01/2005	Hampstead Heath	TQ261867	Plecotus auritus
09/01/2005	Hampstead Heath	TQ260867	Plecotus auritus
12/02/2004	Hampstead Heath	TQ260867	Plecotus auritus
12/02/2004	Hampstead Heath	TQ261867	Plecotus auritus
12/02/2004	Hampstead Heath	TQ2686	Plecotus auritus
04/12/2002	Hampstead Heath	TQ261868	Myotis nattereri
04/12/2002	Hampstead Heath	TQ260867	Myotis nattereri
04/12/2002	Hampstead Heath	TQ261868	Plecotus auritus
04/12/2002	Hampstead Heath	TQ260867	Plecotus auritus
04/12/2002	Hampstead Heath	TQ2686	Plecotus auritus
04/12/2002	Hampstead Heath	TQ2686	Myotis nattereri

### **Bat Casualties**

22/05/2012	St Augustines Road	TQ297844	Pipistrellus pipistrellus
03/04/2012	Parkhill Road	Q277851	Pipistrellus
14/09/2011	Kiln Place	TQ282854	Plecotus auritus
20/09/2010	Goldhurst Terrace	TQ258840	Vespertilionidae
18/09/2010	Oseney Crescent	TQ295848	Pipistrellus nathusii
09/09/2010	Finchley Road	TQ261848	Pipistrellus nathusii
16/08/2010	Finchley Road	TQ263846	Pipistrellus pipistrellus
07/07/2010	Constantine Road	TQ276857	Pipistrellus pipistrellus
08/01/2009	Boundary Road	TQ259836	Pipistrellus nathusii
22/06/2008	Regents Park Terrace NW1	TQ286838	Pipistrellus pygmaeus
14/11/2006	Camden	TQ300833	Pipistrellus kuhlii
11/07/2006	Carlton Hill NW8 0JY	TQ264836	Vespertilionidae
30/06/2006	Croftdown Road NW5	TQ284863	Pipistrellus pipistrellus
08/03/2005	Lyme St NW1	TQ293840	Pipistrellus pipistrellus
01/11/2004	Croftdown Road NW5	TQ285862	Pipistrellus pipistrellus

### **General Data**

16/02/2012	Spaniards Road NW3	TQ264867	Pipistrellus
16/02/2012	Spaniards Road NW3	TQ265869	Pipistrellus
03/11/2011	Hampstead Way	TQ261872	Plecotus auritus
26/10/2011	Holly Bush Hill	TQ263859	Pipistrellus pipistrellus
01/04/2011	North End Road	TQ259872	Pipistrellus pipistrellus
10/03/2011	Hampstead Heath	TQ275870	Pipistrellus pipistrellus
10/03/2011	Hampstead Heath	TQ275870	Pipistrellus pygmaeus
09/08/2010	Queens Wood	TQ287866	Pipistrellus pygmaeus
June 2010	London Zoo, Regent's Park	TQ280833	Nyctalus
June 2010	London Zoo, Regent's Park	TQ279833	Nyctalus
June 2010	London Zoo, Regent's Park	TQ279833	Pipistrellus pipistrellus

June 2010	London Zoo, Regent's Park	TQ279833	Pipistrellus pygmaeus
June 2010	London Zoo, Regent's Park	TQ280833	Pipistrellus pygmaeus
June 2010	London Zoo, Regent's Park	TQ281835	Pipistrellus pipistrellus
June 2010	London Zoo, Regent's Park	TQ280833	Pipistrellus pipistrellus
June 2010	London Zoo, Regent's Park	TQ281835	Nyctalus
June 2010	London Zoo, Regent's Park	TQ281835	Pipistrellus pygmaeus
June 2010	London Zoo, Regent's Park	TQ280833	Pipistrellus nathusii
Apr-10	Daleham Mews	TQ267849	Vespertilionidae
18/09/2009	Highgate Pond No 1	TQ278869	Nyctalus noctula
07/09/2009	Spaniards Road NW3	TQ266871	Pipistrellus pipistrellus
23/08/2009	Highgate Middle pond (boating)	TQ275870	Nyctalus noctula
15/07/2009	field next to wood at Kenwood	TQ271871	Nyctalus noctula
29/05/2009	Highgate Middle pond (boating)	TQ275870	Nyctalus noctula
19/03/2009	Regents Park	TQ279832	Pipistrellus nathusii
08/01/2009	Boundary Road NW8	TQ259836	Pipistrellus nathusii
01/09/2008	Regents Park Westminster	TQ277833	Nyctalus leisleri
01/09/2008	Regents Park Westminster	TQ277833	Pipistrellus pygmaeus
04/05/2008	Regents Canal towpath	TQ275833	Pipistrellus pygmaeus
04/05/2008	Macclesfield Bridge	TQ276833	Myotis daubentonii
04/05/2008	Regents Canal towpath	TQ275833	Pipistrellus pipistrellus
04/05/2008	Regents Canal towpath	TQ275833	Myotis daubentonii
04/05/2008	Macclesfield Bridge	TQ276833	Nyctalus noctula
04/05/2008	Macclesfield Bridge	TQ276833	Pipistrellus pygmaeus
04/05/2008	Macclesfield Bridge	TQ276833	Myotis
04/05/2008	Regents Canal towpath	TQ275833	Myotis
04/05/2008	Regents Canal towpath	TQ275833	Nyctalus noctula
04/05/2008	Macclesfield Bridge	TQ276833	Pipistrellus pipistrellus
20/06/2007	Rosemont Woods, Camden	TQ260849	Pipistrellus pipistrellus
04/05/2007	Regents Park	TQ276832	Pipistrellus pipistrellus
04/05/2007	Regents Park Westminster	TQ277833	Nyctalus noctula
04/05/2007	Regents Park Westminster	TQ277833	Pipistrellus pipistrellus
04/05/2007	Regents Park Westminster	TQ277833	Pipistrellus pygmaeus
04/05/2007	Regents Park	TQ276832	Pipistrellus pygmaeus
08/04/2007		TQ263865	Pipistrellus pygmaeus
08/04/2007		TQ263865	Pipistrellus pipistrellus
11/03/2007		TQ273865	Nyctalus noctula
11/03/2007		TQ273865	Pipistrellus pygmaeus
11/03/2007		TQ273865	Pipistrellus pipistrellus
2007	Regent's Park	TQ276832	Pipistrellus pygmaeus
2007	Regent's Park	TQ276832	Pipistrellus pipistrellus
28/06/2006	Regents Park Westminster	TQ277833	Nyctalus noctula
28/06/2006	Regents Park Westminster	TQ277833	Pipistrellus pipistrellus
21/06/2006	Regents Park Westminster	TQ277833	Pipistrellus pygmaeus
27/10/2005	Holly Lodge	TQ285868	Pipistrellus
04/09/2005	Camley Street Nature reserve	TQ300836	Pipistrellus nathusii
04/09/2005	Camley Street Nature reserve	TQ300836	Pipistrellus
04/09/2005		TQ300836	Pipistrellus
31/08/2005		TQ287870	Pipistrellus
31/08/2005	Waterlow Park	TQ287870	Pipistrellus
31/08/2005		TQ287870	Myotis
31/08/2005	Waterlow Park	TQ287870	Myotis
18/08/2005	Hampstead Heath	TQ275870	Myotis
18/08/2005		TQ275870	Pipistrellus pipistrellus
18/08/2005		TQ275870	Pipistrellus
18/08/2005		TQ275870	Myotis
18/08/2005	Hampstead Heath	TQ275870	Pipistrellus pipistrellus
18/08/2005	Hampstead Heath	TQ275870	Pipistrellus
28/07/2005		TQ275870	Pipistrellus pygmaeus

28/07/2005	Hampstead Heath	TQ275870	Pipistrellus pipistrellus
28/07/2005		TQ275870	Pipistrellus pipistrellus
28/07/2005		TQ273862	Nyctalus noctula
28/07/2005		TQ275870	Myotis daubentonii
28/07/2005	Hampstead Heath	TQ273862	Nyctalus noctula
28/07/2005	Hampstead Heath	TQ275870	Myotis daubentonii
28/07/2005	Hampstead Heath	TQ275870	Pipistrellus pygmaeus
26/07/2005		TQ275870	Pipistrellus pygmaeus
26/07/2005		TQ275870	Pipistrellus pipistrellus
24/07/2005	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
24/07/2005		TQ275870	Myotis daubentonii
24/07/2005		TQ275870	Myotis nattereri
24/07/2005	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
24/07/2005	Hampstead Heath	TQ2786	Myotis daubentonii
24/07/2005	Hampstead Heath	TQ2786	Nyctalus noctula
24/07/2005		TQ275870	Pipistrellus
24/07/2005	Hampstead Heath	TQ275870	Pipistrellus
24/07/2005	Hampstead Heath	TQ275870	Nyctalus noctula
24/07/2005	Hampstead Heath	TQ275870	Myotis daubentonii
24/07/2005	Hampstead Heath	TQ275870	Myotis nattereri
24/07/2005		TQ275870	Nyctalus noctula
11/07/2005		TQ275870	Nyctalus noctula
11/07/2005		TQ275870	Myotis nattereri
11/07/2005		TQ275870	Myotis daubentonii
11/07/2005		TQ275870	Pipistrellus pipistrellus
11/07/2005		TQ275870	Pipistrellus pygmaeus
07/07/2005		TQ273862	Pipistrellus
07/07/2005		TQ273862	Myotis daubentonii
07/07/2005	No 2 pond on Hampstead Heath	TQ273862	Myotis daubentonii
07/07/2005	No 2 pond on Hampstead Heath	TQ273862	Pipistrellus
23/05/2005		TQ273862	Myotis
23/05/2005		TQ273862	Pipistrellus
23/05/2005		TQ273862	Nyctalus noctula
23/05/2005	No 2 pond on Hampstead Heath	TQ273862	Myotis
23/05/2005	No 2 pond on Hampstead Heath	TQ273862	Nyctalus noctula
23/05/2005	No 2 pond on Hampstead Heath	TQ273862	Pipistrellus
18/05/2005		TQ273862	Pipistrellus
18/05/2005	No 2 pond on Hampstead Heath	TQ273862	Myotis
18/05/2005	No 2 pond on Hampstead Heath	TQ273862	Nyctalus noctula
18/05/2005	No 2 pond on Hampstead Heath	TQ273862	Pipistrellus
18/05/2005		TQ273862	Myotis
18/05/2005		TQ273862	Nyctalus noctula
01/11/2004	Croftdown Rd NW5	TQ286862	Pipistrellus pipistrellus
26/01/2003	Highgate Wood	TQ284858	Pipistrellus
27/09/2002	Highgate Wood	TQ284858	Pipistrellus pygmaeus
25/09/2002	Highgate Wood	TQ284858	Pipistrellus pygmaeus
25/09/2002	Highgate Wood	TQ284858	Nyctalus leisleri
12/09/2002	Highgate Wood	TQ284858	Pipistrellus pipistrellus
08/09/2002	Highgate Wood	TQ284858	Nyctalus
11/08/2002	Hampstead heath	TQ275870	Nyctalus noctula
11/08/2002	Hampstead heath	TQ275870	Pipistrellus
11/08/2002	Hampstead heath	TQ275865	Myotis daubentonii
04/08/2002	Hampstead heath	TQ275865	Myotis daubentonii
04/08/2002	Hampstead heath	TQ275870	Nyctalus noctula
04/08/2002	Hampstead heath	TQ275865	Pipistrellus
25/07/2002	Hampstead Ponds	TQ2786	Myotis daubentonii
13/07/2002	Hampstead Ponds	TQ2786	Myotis daubentonii
21/05/2002	Hampstead Heath	TQ273862	Nyctalus noctula

21/05/2002	Hampstead Heath	TQ273862	Myotis daubentonii
21/05/2002	Hampstead Heath	TQ273862	Pipistrellus
14/05/2002	Hampstead Heath	TQ274862	Pipistrellus pipistrellus
14/05/2002	Hampstead Heath	TQ280864	Pipistrellus
14/05/2002	Hampstead Heath	TQ280864	Myotis daubentonii
14/05/2002	Hampstead Heath	TQ273862	Nyctalus noctula
16/08/2001	Hampstead Heath, Highgate Ponds	TQ279867	Myotis daubentonii
16/08/2001	Hampstead Heath, Highgate Ponds	TQ279867	Pipistrellus pipistrellus
16/08/2001	Hampstead Heath, Highgate Ponds	TQ279867	Pipistrellus pygmaeus
02/08/2001	Hampstead Heath Ponds	TQ277867	Pipistrellus pipistrellus
02/08/2001	Hampstead Heath Ponds	TQ277867	Pipistrellus pygmaeus
02/08/2001	Hampstead Heath Ponds	TQ277867	Myotis daubentonii
29/07/2001	Hampstead Heath	TQ277867	Myotis nattereri
29/07/2001	Hampstead Heath - Boating Pond	TQ277868	Myotis nattereri
18/08/2000	South Hill Park,NW3	TQ274861	Pipistrellus
24/07/2000	Hampstead Heath	TQ2786	Pipistrellus
24/07/2000	Hampstead Heath	TQ2786	Myotis daubentonii
24/07/2000	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
20/07/2000	Waterlow Park	TQ286871	Pipistrellus pygmaeus
20/07/2000	Waterlow Park	TQ286871	Myotis daubentonii
11/07/2000	Hampstead Heath	TQ2786	Pipistrellus
11/07/2000	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
11/07/2000	Hampstead Heath	TQ2786	Myotis daubentonii
11/07/2000	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
20/07/1999	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
20/07/1999	Hampstead Heath	TQ2786	Pipistrellus
20/07/1999	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
06/07/1999	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
06/07/1999	Hampstead Heath	TQ2786	Pipistrellus
06/07/1999	Hampstead Heath	TQ2786	Nyctalus noctula
06/07/1999	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
04/07/1999	Hampstead Heath	TQ275865	Pipistrellus pygmaeus
04/07/1999	Hampstead Heath	TQ275865	Pipistrellus pipistrellus
04/07/1999	Hampstead Heath	TQ275865	Myotis daubentonii
23/08/1999	Regents Canal	TQ298837	Pipistrellus pipistrellus
16/06/1999	Hampstead Heath	TQ273862	Myotis daubentonii
16/06/1999	Hampstead Heath	TQ286870	Myotis daubentonii
16/06/1999	Hampstead Heath	TQ286870	Pipistrellus
16/06/1999	Hampstead Heath	TQ286870	Pipistrellus pygmaeus
04/06/1999	Hampstead Heath	TQ275865	Nyctalus noctula
30/08/1998	Regent's Park	TQ276833	Pipistrellus pygmaeus
30/08/1998	Regent's Park	TQ276833	Vespertilionidae
30/08/1998	Regent's Park	TQ276833	Pipistrellus pipistrellus
30/08/1998	Regent's Park	TQ276833	Pipistrellus pipistrellus
30/08/1998	Regent's Park	TQ276833	Pipistrellus pygmaeus
30/08/1998	Regent's Park	TQ276833	Pipistrellus pygmaeus
20/07/1998	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
20/07/1998	Hampstead Heath	TQ2786	Pipistrellus
20/07/1998	Hampstead Heath	TQ2786	Nyctalus noctula
13/07/1998	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
13/07/1998	Hampstead Heath	TQ2786	Pipistrellus
01/07/1998	Regent's Park	TQ277832	Nyctalus
17/06/1998	Regent's Park	TQ276833	Pipistrellus pygmaeus
17/06/1998	Regent's Park	TQ276833	Pipistrellus
17/06/1998	Regent's Park	TQ276833	Pipistrellus pipistrellus
06/08/1996	Hampstead Heath No 3 Pond	TQ278867	Pipistrellus pygmaeus
06/08/1996	Hampstead Heath No 1 Pond	TQ280864	Nyctalus noctula
06/08/1996	Hampstead Heath No 1 Pond	TQ280864	Pipistrellus pipistrellus

06/08/1996	Hampstead Heath No 1 Pond	TQ280864	Myotis daubentonii
06/08/1996	Hampstead Heath No 2 Pond	TQ278865	Pipistrellus pipistrellus
06/08/1996	Hampstead Heath No 2 Pond	TQ278865	Myotis daubentonii
06/08/1996	Hampstead Heath No 3 Pond	TQ278867	Pipistrellus pipistrellus
06/08/1996	Hampstead Heath No 3 Pond	TQ278867	Myotis daubentonii
06/08/1996	Tree line west of Birds Nest Pond	TQ276868	Pipistrellus pipistrellus
06/08/1996	Hampstead Heath No 4 Pond	TQ277868	Pipistrellus pipistrellus
06/08/1996	Hampstead Heath No 4 Pond	TQ277868	Myotis nattereri
06/08/1996	Hampstead Heath No 4 Pond	TQ277868	Myotis daubentonii
06/08/1996	Hampstead Heath No 5 Pond	TQ276869	Myotis daubentonii
06/08/1996	Hampstead Heath No 5 Pond	TQ276869	Pipistrellus pipistrellus
26/08/1993	Parliament Hill	TQ282859	Pipistrellus
26/08/1993	Branch Hill	TQ259859	Pipistrellus
21/08/1993	SW Hampstead Heath	TQ269859	Pipistrellus
21/08/1993	Canfield Garden Field	TQ262845	Pipistrellus
20/08/1993	Vale of Health Pond	TQ266864	Pipistrellus
20/08/1993	Vale of Health Pond	TQ266864	Myotis daubentonii
16/08/1993	Highgate Cemetery	TQ284871	Pipistrellus
07/08/1993	Steeles Road,NW3	TQ278846	Pipistrellus
29/07/1993	Waterlow Park	TQ286871	Nyctalus noctula
29/07/1993	Waterlow Park	TQ286871	Pipistrellus
06/07/1993	Hampstead Ponds	TQ273861	Pipistrellus
06/07/1993	Hampstead Ponds	TQ273861	Myotis daubentonii
21/06/1993	Camley Street NP	TQ300834	Pipistrellus
04/06/1993	Highgate Ponds	TQ277868	Myotis daubentonii
04/06/1993	Highgate Ponds	TQ277868	Pipistrellus
04/06/1993	Highgate Ponds	TQ280863	Pipistrellus
04/06/1993	Highgate Ponds	TQ280863	Myotis daubentonii
04/06/1993	Highgate Ponds	TQ280863	Nyctalus noctula
04/06/1993	Highgate Ponds	TQ277868	Nyctalus noctula
10/07/1990	Regent's Canal	TQ275834	Pipistrellus
09/05/1990	Regent's Park	TQ278834	Pipistrellus
11/06/1988	St. Albans Rd, NW5	TQ285864	Pipistrellus
03/04/1988	Highgate Ponds	TQ277868	Nyctalus noctula
03/04/1988	Highgate Ponds	TQ277868	Pipistrellus
27/08/1986	Regent's Canal, NW1	TQ287842	Pipistrellus
27/08/1986	Regent's Canal, NW1	TQ298837	Pipistrellus
22/06/1986	Hampstead Ponds	TQ273860	Myotis daubentonii
22/06/1986	Hampstead Ponds	TQ273860	Pipistrellus
22/06/1986	Hampstead Ponds	TQ273860	Nyctalus noctula
17/05/1986	Highgate Ponds	TQ280865	Nyctalus noctula
08/05/1986	Hampstead Ponds	TQ272860	Pipistrellus
08/05/1986	Hampstead Ponds	TQ272860	Nyctalus noctula
08/05/1986	Highgate Ponds	TQ278865	Pipistrellus
25/04/1986	Hampstead Ponds	TQ272859	Pipistrellus
29/07/1985	East Heath Pond	TQ266865	Pipistrellus
06/07/1985	Highgate Ponds	TQ279865	Nyctalus noctula
06/07/1985	Highgate Ponds	TQ279865	Pipistrellus
23/06/1985	Highgate Cemetery	TQ285871	Nyctalus noctula
05/06/1985	Highgate Ponds	TQ276870	Nyctalus noctula
05/06/1985	Highgate Ponds	TQ276870	Pipistrellus
05/06/1985	Hampstead Ponds	TQ273862	Pipistrellus
29/05/1985	Highgate Cemetery	TQ285871	Nyctalus noctula
29/05/1985	Highgate Cemetery	TQ285871	Pipistrellus
29/05/1985	Highgate Cemetery	TQ287868	Pipistrellus
26/05/1985	Hampstead Ponds	TQ273863	Nyctalus noctula
16/05/1985	Highgate Ponds	TQ277867	Vespertilionidae
1985		TQ2984	Vespertilionidae

**Boat Surveys**

31/08/2007	TQ2782883516	Pipistrellus pygmaeus
31/08/2007	TQ2768783457	Pipistrellus
31/08/2007	TQ2770783467	Pipistrellus pipistrellus
31/08/2007	TQ2774083473	Pipistrellus pygmaeus
31/08/2007	TQ2774083473	Pipistrellus pipistrellus
31/08/2007	TQ2775183483	Pipistrellus pipistrellus
31/08/2007	TQ2777483490	Pipistrellus pipistrellus
31/08/2007	TQ2837783933	Myotis
31/08/2007	TQ2828383725	Nyctalus noctula
31/08/2007	TQ2828283752	Pipistrellus pipistrellus
31/08/2007	TQ2780683506	Myotis
31/08/2007	TQ2786683536	Myotis
31/08/2007	TQ2781683511	Myotis
31/08/2007	TQ2816883634	Nyctalus noctula
31/08/2007	TQ2768783457	Pipistrellus pipistrellus
31/08/2007	TQ2827283672	Pipistrellus pipistrellus
31/08/2007	TQ2761283422	Myotis daubentonii
31/08/2007	TQ2786683536	Pipistrellus pygmaeus
31/08/2007	TQ2791883554	Myotis
31/08/2007	TQ2793983561	Pipistrellus pipistrellus
31/08/2007	TQ2826283660	Pipistrellus pipistrellus
31/08/2007	TQ2793983561	Pipistrellus pygmaeus
31/08/2007	TQ2795883571	Pipistrellus pygmaeus
31/08/2007	TQ2795883571	Pipistrellus pipistrellus
31/08/2007	TQ2796983577	Pipistrellus pipistrellus
31/08/2007	TQ2799483591	Nyctalus noctula
31/08/2007	TQ2800283592	Pipistrellus pipistrellus
31/08/2007	TQ2781183503	Nyctalus noctula
31/08/2007	TQ2750083357	Nyctalus noctula
31/08/2007	TQ2742383274	Myotis
31/08/2007	TQ2744583298	Myotis daubentonii
31/08/2007	TQ2744583298	Myotis
31/08/2007	TQ2744583298	Myotis nattereri
31/08/2007	TQ2746883328	Myotis
31/08/2007	TQ2746883328	Pipistrellus pipistrellus
31/08/2007	TQ2747983345	Myotis nattereri
31/08/2007	TQ2747983345	Pipistrellus pipistrellus
31/08/2007	TQ2747983345	Myotis daubentonii
31/08/2007	TQ2749683345	Myotis nattereri
31/08/2007	TQ2749683345	Myotis
31/08/2007	TQ2749683345	Pipistrellus pygmaeus
31/08/2007	TQ2762583432	Pipistrellus pygmaeus
31/08/2007	TQ2750083357	Pipistrellus pipistrellus
31/08/2007	TQ2768783457	Nyctalus
31/08/2007	TQ2751983372	Pipistrellus pipistrellus
31/08/2007	TQ2752183360	Pipistrellus pipistrellus
31/08/2007	TQ2754083382	Pipistrellus pipistrellus
31/08/2007	TQ2755183385	Pipistrellus pipistrellus
31/08/2007	TQ2755183387	Pipistrellus pipistrellus
31/08/2007	TQ2757883404	Pipistrellus pygmaeus
31/08/2007	TQ2759183412	Pipistrellus pipistrellus
31/08/2007	TQ2742383274	Myotis daubentonii
31/08/2007	TQ2761283422	Pipistrellus pipistrellus



31/08/2007	TQ2837783933	Pipistrellus pipistrellus
31/08/2007	TQ2762583432	Pipistrellus pipistrellus
31/08/2007	TQ2763283432	Myotis nattereri
31/08/2007	TQ2749683345	Pipistrellus pipistrellus
31/08/2007	TQ2843583992	Myotis
31/08/2007	TQ2843583992	Pipistrellus pipistrellus
31/08/2007	TQ2845384002	Pipistrellus pipistrellus
31/08/2007	TQ2845384002	Myotis
31/08/2007	TQ2846684005	Pipistrellus pipistrellus
31/08/2007	TQ2742383274	Myotis nattereri
31/08/2007	TQ2837783933	Pipistrellus pipistrellus
04/05/2007	TQ276832	Nyctalus noctula
04/05/2007	TQ275833	Myotis daubentonii

### **NBMP**

25/08/2009	Regents Canal, Camley Street	TQ299834	Myotis
18/07/2006	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
18/07/2006	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
18/07/2006	Hampstead Heath	TQ2786	Pipistrellus
04/07/2006	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
04/07/2006	Hampstead Heath	TQ2786	Pipistrellus
04/07/2006	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
26/07/2005	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
26/07/2005	Hampstead Heath	TQ2786	Pipistrellus
26/07/2005	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
11/07/2005	Hampstead Heath	TQ2786	Nyctalus noctula
25/07/2002	Hampstead Heath	TQ2786	Pipistrellus
13/07/2002	Hampstead Heath	TQ2786	Pipistrellus
30/07/2001	Hampstead Heath	TQ2786	Nyctalus noctula
30/07/2001	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
30/07/2001	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
30/07/2001	Hampstead Heath	TQ2786	Eptesicus serotinus
30/07/2001	Hampstead Heath	TQ2786	Pipistrellus
11/07/2001	Hampstead Heath	TQ2786	Pipistrellus
11/07/2001	Hampstead Heath	TQ2786	Nyctalus noctula
11/07/2001	Hampstead Heath	TQ2786	Pipistrellus pipistrellus
11/07/2001	Hampstead Heath	TQ2786	Pipistrellus pygmaeus
11/07/2001	Hampstead Heath	TQ2786	Eptesicus serotinus
20/07/2000	Waterlow Park	TQ286871	Pipistrellus pygmaeus
20/07/2000	Waterlow Park	TQ286871	Pipistrellus pipistrellus
20/07/2000	Waterlow Park	TQ286871	Pipistrellus

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## REFERENCES

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- <sup>1</sup> Bat Conservation Trust, (2007); *Bat Surveys – Good Practice Guidelines*. Bat Conservation Trust, London.