# ADDITIONAL AMENDMENTS

	Amended layout of buildings/outside areas
	Additional background information — BAT SUKCET
	Amended design
	rised access arrangements-1-
	Change of description of proposed development - as indicated on the previous page
	Change in site boundaries
, 🗀 (	Other_(as specified below)

John Drewett
Ecological Consultant

Redmire Farm, Tranmire, Whitby, YO21 2BW Bat survey report

John Drewett BSc MIEEM – Ecological Consultant 3 Victoria Row, Eppleby. Richmond, North Yorkshire, DL 1 7BE Tel/Fax: 01325 718133 Email johndrewett@btinternet.com

NYMNPA

# Contents

	1 Sui	mmary	3
	2 Int	roduction	3
	2.1	Site description	3
	2.2	Proposed works	5
	2.3	Aims of survey	5
3	Moffic	daloov;;;;	5
_	3.1	Desk study	5
	3.2	Field survey	5
	4 Pos	sults	
	4.1	Desk study	5
	4.2	Field survey	6
=		smenicat	
2	్∺ుపక్కి 5.1	Summary and evaluation of findings	6
	5.1 5.2	Constraints on survey information	7
	5.3	Potential impacts in the absence of mitigation	7
	5.4	Legislation and policy guidance	7
	6 Re	commendations and mitigation	9
	6.1 Fu	irther survey	9
	6.2	Mitigation measures	9
	6.3	Requirement for Habitats Regulation (EPS) licence	11
	7 Bri	ef summary of bat biology	11
		ferences	
J	ԳՋԽ	gtopranha	12
.,	ን ነጥ ጥ- ት	sat redoru summary siteet	6. IV

# Record of report and revisions

Date	Details	Issued by
9 November 2007	Original report	John Drewett
1	1	

NYMNPA 19 NOV 2007

Date printed: 09/11/07

## 1 Summary

- 1.1.1 A bat survey of outbuildings at Redmire Farm, Tranmire, North Yorkshire was commissioned by Vandome Interiors on behalf of the owners Mr & Mrs Thompson.
- 1.1.2 The survey was carried out on 8 November 2007.
- 1.1.3 A Brown long-eared bat feeding perch was located in one part of the building and two further bat droppings were located in another part of the building.
- 1.1.4 The site also has some potential for roosting bats between tiles and underfelt and limited potential for hibernating bats in external wall crevices.
- 1.1.5 Even if bats do use the spaces detailed in 1.1.4 it should be possible to include provision in the project to enable this use to continue. However, it is necessary to carry out a bat activity survey in summer 2008 to confirm or deny such usage.
- 1.1.6 If work is judged likely to have a significant impact on bats, then as Habitats Regulation (EPS) licence will be required.
- 1.1.7 There is evidence of nesting birds using the building. All wild birds are protected by law throughout the UK when they are nesting. It is illegal to kill, injure or take any wild bird, or damage or destroy the nest or eggs of breeding birds. This includes commonly seen him day, such his blackbirds and ironis.

### 2 Introduction

## 2.1 Site description

			National Park Authority site and adjacent to star
Feature		Adjacer	
Bull and Triare or			House, stables, agricultural shape and stables of the buildings on site
ı rees with Visible		and the	Visible from site; but several mundred metres
cavities			away
Oliv <b>ia</b>		<b>*</b>	Small trees on site and very small woodlands in vicinity
Rivers or streams		✓	Small stream 150m to north
bordered by trees			
Livestock	y sylvy, its <b>✓</b>	· : · · <b>✓</b>	Horses on site. Sheep within 300m.
Impution grassland		. , . <b>✓</b> : : t	

2.13.1 The becits located at a narrow valley with this tip an attachment be to the sun by a bank immediately behind the farmhouse.

-1-9-NOV-2007

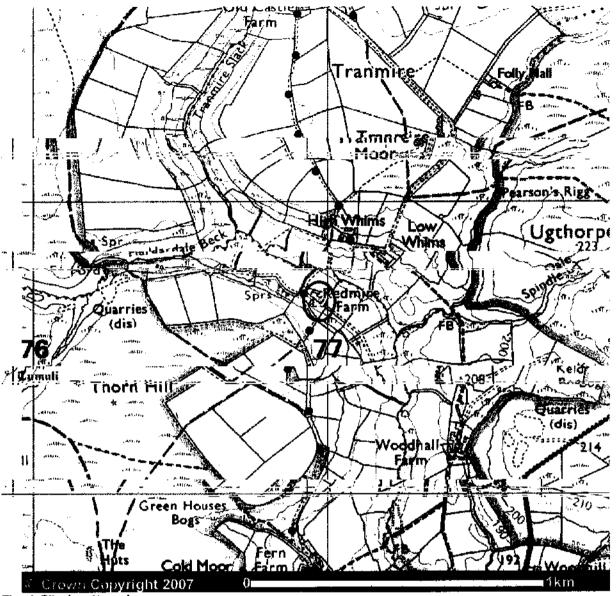
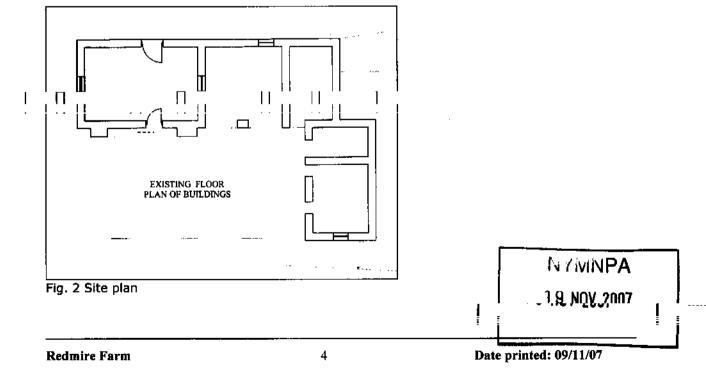


Fig. 1 Site location plan



### 2.2 Proposed works

2.2.1 The proposal is for the conversion of stone barns to form two holiday apartments. It is the subject of planning application NYM/2007/0852/FL to North York Moors National Park Authority.

### \_\_\_2.3...Airos of.suryev

- 2.3.1 The survey was carried out to establish the following:
  - Likelihood of particular buildings, structures, trees or other features to support bats
  - The presence of absence of bats e.g. in a particular building, structure or tree
  - The number of bats present
  - Specific features used within the survey area by roosting bats
  - Bat behaviour that may be affected by the proposed activity or development in terms of emergence, forgoing, commuting or mating......

## 3 Methodology

### 3.1 Desk study

- 3.1.3.1 Introrrifacioni concerning designated sides was obtained morni www.magic.gov.uk.
  - 3.1.2 Information regarding bats previously recorded at the site or within 2km was obtained from North Yorkshire Bat Group.

### 3.2 Field survey

3.2.1 The following personnel took part in this survey:

Surveyor

John Drewett BSc. (Hons.), MIEEM Val Kirk

Natural England Licence No. or status

20070172 (Conservation & scientific) Field assistant and trainee

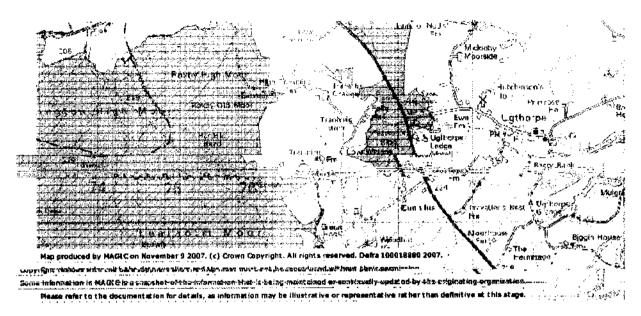
- 3.2.2 The following activities were carried out during this survey:
  - · An examination and assessment of the site and habitats present within 300m
  - An examination of each building to record its main structural features and condition and to identify features that may be suitable for roosting bats
  - The making of a photographic record of the site, its features and any evidence of bats to illustrate the findings in this report
  - A detailed check of the interior and exterior of buildings to look for bat droppings;
     feeding remains such as moth & butterfly wings; live bats; dead bats; stains and marks on surfaces indicating regular\_use\_by\_bats\_\_\_
- 3.2.3 The following equipment was used in conducting this survey:
  - Digital camera
  - Powerful torch

NYMNPA 19 NOV 2007

#### 4 Results

### 4.1 Desk study

4.1.1 The map below shows the location of sites designated for their conservation interest within the vicinity of the site. The areas marked green with horizontal orange lines is the North York Moors Site of Special Scientific Interest, Special Area of Conservation and Special Protection Area. The smaller green area approximately 1km north of the site is Tranmire Site of Special Scientific Interest. None of the sites were specifically designated for their pat interest.



4.1.2 The following records of bats previously recorded within 2km of the site were supplied by North Yorkshire Bat Group. As is usual with remote rural areas such as this, the records are likely to severely under-represent the bat fauna present in the area.

Species Site Grid ref. Date Comment
Uniform Uniform Lugaronie House, Ugthorpe NZ/811 15 389 2004 Several bats NISVING aleas

## 4.2 Field survey

4.2.1 Descriptions of each building are given below along with information about any evidence of bats found within and potential for roosting bats.

Viell -	Roof -	Evidence of		<b>Estate Sand</b>
	Pantiles lined with underfelt. A few gaps etween ures" - we		Potential for roosting bats between tiles and felt. Some	L-shaped range divided into 5 rooms.
facing well-seider de section and N gable end.	ut করিবাঞ্চল্রল চর well pointed.	wtherly-rocm hi Two bat droppings in most easterly room.	bats in wall crevices.	

4.2.2 There is extensive evidence of nesting Swallows in all parts of the hullding

#### 5 Assessment

# 5.1 Summary and evaluation of findings

NYMNPA -

- 5.1.1 The site is in a remote location at the end of an unclassified road in the North York modes, approximately 7 km maintend of frame houting each and in a reasonal sections in a reasonal sections and local woodland / shrub edges. All these factors make this a location of high bat roost potential.
- 5.1.2 The surveyed buildings are rather shaded by adjacent buildings and by a small hill to the south, somewhat reducing their attractiveness as bat roosting sites. However, the

roof areas are likely to receive some direct sun during the summer and the presence of underfelt does offer the opportunity for bats to roost between tiles and felt. There are few gaps into this area, other than between some slightly raised tiles.

- 5.1.3 Deep crevices in the external walls, especially at the north gable end, provide some potential for hibernating bats.
  - 5.1.4 There is clear evidence that Brown long-eared bats have used the most southerly room as a feeding perch. The number of droppings is small, suggesting that this is probably not a regular or long-established feeding site.

## 5.2 Constraints on survey information

Constraint significance	
Time The survey was carried but in year and anti-	winter to the second of the se

### 5.3 Potential impacts in the absence of mitigation

11年 美國	<b>During</b> works	
Designated sites	The site is located close to sor designated sites. However, the not designated for their bats a proposed development will not sites.	ese sites are and the

The site is located close to some major designated sites.
However, these sites are not designated for their bats and the proposed development will not impact on the sites.

The proposed works his cause the cast and decessional feeding beach used by Brond Habit as feed below. There is the potential foil 1900s between the and fest to be disturbed it such states exist. When require could be lost through mappropriate pointing if these exist.

None.

\_\_\_Individual bats----

\_\_\_Even where surveys have not located bats. individual bats may be found during works. \_\_\_\_

Inere is the risk of these being injured or killed.

Nest No. Work during the breeding season (May to birds ... August) would cause disturbance to nesting ... Swallows.

The scaling about the larger be made the separate that

### 5.4 Legislation and policy guidance

- 5.4.1 Bats receive protection under the Wildlife and Countryside Act, 1981 (as amended) and under the Conservation (Natural Habitats &c.) Regulations, 1994 (as amended).
- 5.4.2 It is an offence to:-
  - Deliberately capture (or take), injure or kill a bat

Damage or destroy the breeding or resting place (roost) of a bat

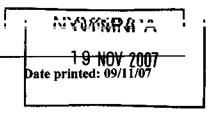
· Possess a bat (alive or dead), or any part of a bat

Intentionally or recklessly obstruct access to a bat roost

19 NOV 2007

5.4.3 The Convention on Biological Diversity, signed in Rio de Janeiro, Brazil in 1992, requires states to develop national strategies and to undertake a range of actions aimed at

- maintaining or restoring biodiversity. The UK Biodiversity Strategy was produced in response to the Convention.
- 5.4.4 Individual Species Action Plans (SAPs) have been developed to address the causes of decline for those species that have been identified as priorities for UK conservation action. Country-level lists contain species considered of national importance in biodiversity strategies. The current list includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, No. North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Vernochoe, Pata, Bastarte, North Journal of Strate Includes Bechstein's Bat, Greater Horseshoe Bat, Leabergo, Leaber
- 5.4.5 In England & Wales, the Natural Environment and Rural Communities (NERC) Act, 2006 imposes a duty on all public bodies, including local authorities and statutory bodies, in exercising their functions, "to have due regard, as far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity". It notes that "conserving biodiversity\_includes\_restoring or enhancing a population or habitat".
- 5.4.6 Where it is proposed to carry out works which will have an adverse impact on bats or on a bat roost, a European Protected Species (EPS) licence must first be obtained from Natural England, even if no bats are expected to be present when the work is carried out.
- 5.4.7 An EPS licence application requires details of the proposed works, the bats which may be affected and the initigation proposed to maintain the ravoblable status of bats in the region. The application is usually drawn up on behalf of the client by a specialist ecological consultant. The consultant is likely to be required to check that work is proceeding in accordance with the method statement and to also carry out monitoring of the impact on bats for sometime after completion of the works.
- 5.4.8 \* When considering an application, the hardran engine function is a considerable length of time. Natural England presently states that it aims to make a decision on an application within 30 working days of receipt. There is no guarantee that a licence will be granted and no fast track process to obtaining a licence. Applications can only be made once planning permission has been granted (where appropriate).
  - 5.4.9 EPS licences can only be issued if Natural England is satisfied that there is no satisfactory alternative to the development and that the action authorised will not be detrimental to the maintenance of the population of the species at a favourable conservation status in their natural range.
  - 5.4.10 PPS9: Biodiversity and Geological Conservation is the relevant national planning statement in relation to protected species. It provides guidance on how the Government's policies on nature conservation should be implemented through the land use planning system. PPS9 states that "the aim of planning decisions should be to prevent harm to biodiversity and geological conservation interests. Where granting planning permission would result in significant harm to those interests, local planning authorities will need to be satisfied that the development cannot reasonably be located on any alternative sites that would result in less or no harm. In the absence of any such alternatives, local planning authorities should ensure that... adequate mitigation measures are put in place... If that significant harm cannot be prevented, adequately mitigated against, or compensated for, then planning permission should be refused.
  - 5.4.11 All wild birds are protected by law throughout the UK when they are nesting. It is illegal to kill, injure or take any wild bird, or damage or destroy the nest or eggs of breeding birds. This includes commonly seen birds, such as blackbirds and robins.



Redmire Farm

# 6 Recommendations and mitigation

### 6.1 Further survey

6.1.1 A summer bat activity survey should be undertaken to determine if small crevices are being used by roosting bats.

### 6.2 Mitigation measures

5.26.2. The the color and instigation sees uses are indicative only isterate acceptable indicative only isterate acceptable in the summer survey.

# Resign for

To avoid impacting on cosmodinals for the present and nesting .....

To make provision for bats to roos in roof area.

To provide for bats to hibernate in external walls.

To avoid risks of poissoning bats through timber treatment.

। o নিমানোটাই দিয়ে to hindividual হৈছে thet::: may be encountered during works.

> To provide new nesting sites for

#### Methods to follow

Carry out works to roof areas between October and April only.

Incorporate bat access tiles at the settle, so a transmit attack to the area between tiles and underfield (see ing. Smallers.)

Gaps should be left in the external north wall during pointing. The gaps should slope up slightly to shed water and have a height of 18mm (range 15-20mm) and be a minimum of 80mm wide. These are best achieved by inserting a batten in the wall prior to pointing and removing this once the mortar has set.

In the event that timber treatment should be received any preducts based on permethrin or dynamical treatment or the search must be undertaken first treatment to undertaken first treatment must not take prace when the search search search.

Ine greatest risk of casaar palitiste is nirely in a gradient when house breeding to the house same as a second out at any time of the year. Work practice should be such that potential roost sites are exposed and examined for bats before they have the potential to be damaged. This will require roofing, guttering, beams, rafters and any other woodwork and fixtures to be removed by hand.

Nesting ledges should be erected in adjacent stables buildings (see fig. 4 below).

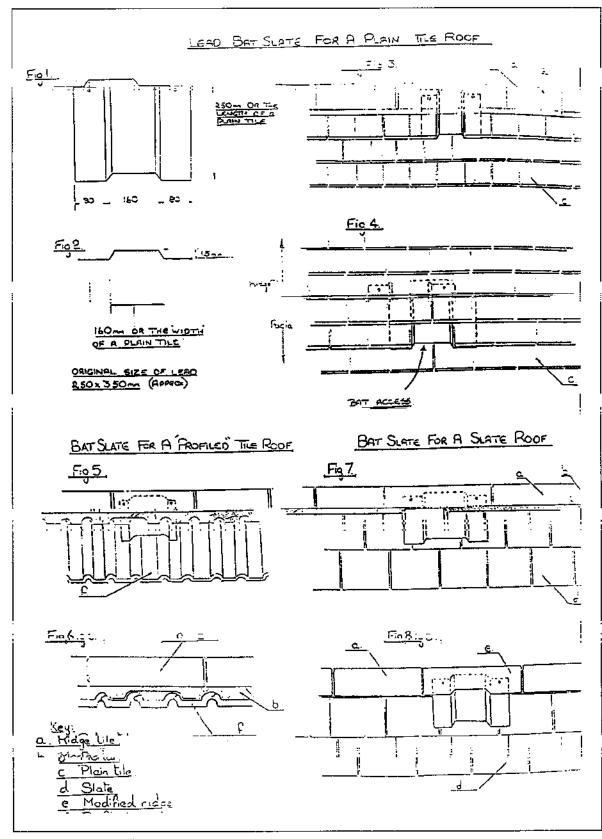


Fig. 3 Bat access tiles

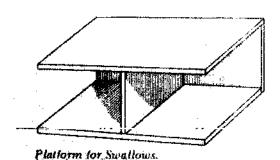


Fig. 4 Nesting platform for Swallows

# 6.3 Regulrement for Habitats Regulation (EPS) licence

If the proposed works are likely to have a significant impact on bats then a EPS licence is required from Natural England. This would be the case if works could not be timed to avoid disturbance, where roosts would be damaged or lost, etc. "At this stage a nicelice" is unlikely to be recorred but this advice may chance following a summer survey.

# Brief summary of bat biology

- Bats are the only mammals to have developed powered flight. They are the second largest group of mammals in the world, with almost 1000 different species. In Britain 17 species occur, with the variety generally declining northwards. All British bats feed entaleich emantebretraues.
- 7.1.2 British bats live in crevices in trees, caves, buildings, bridges, tunnels and other structures. They are long-lived animals which use roost sites to which they return in subsequent years. In summer females are generally colonial, each species gathering together in warm maternity roosts to give birth to their single young. Males often spend unetbanniremanistedir ar aniamellaruapoursu.Bata mayurse, several different coosts over a summer, impying between sites depending on prevailing weather and other conditions......
- In winter bats hibernate. During hibernation their body temperature falls close to the ambient temperature of their chosen hibernaculum and their heart rate and metabolism drop dramatically. In this state they use little energy, allowing them to survive until spring on their fat reserves. They are very sensitive to temperature changes which cause them to wake, a process which uses considerable energy. Repeated arousal in winter can threaten their survival. Many species hibernate in cool, stable underground resides such as caves and turnels.
- 7.1.4 For more than 50 years bats have undergone a major decline in numbers. The reasons for these declines are many and varied, but include destruction of roost sites, a reduction in insect prey and direct and Indirect poisoning from toxic chemicals. Even our commonest species, the Pipistrelle bats, have declined by more than 60% in recent years."
- The survival of a colony of bats depends on there being a range of suitable summer 7.1.5 roost sites, hibernation sites and feeding areas within a reasonable distance. For most species, these various sites must be linked by a more or less continuous network of linear features such as rivers, woodland edges and hedgerows, along which the bats commute from place to place (Limpens & Kapteyn 1991).

### References

Anon (2005) Planning Policy Statement 9: Biodiversity & Geological Conservation, Office of the Deputy Prime Minister

Bat Conservation Trust (2007) Bat Surveys - Good Practice Guidelines, Bat Conservation Trust, London

Billington G E & Norman G M (1997) The Conservation of Bats in Bridges
 Project - A Report on the Survey and Conservation of Bat Roosts in Cumbria,
 English Nature

Forestry Commission for England and Wales, Bat Conservation Trust,
 Countryside Council for Wales and English Nature (20ປັຽ) Woolnadle - 4
 Management for Bats, Forestry Commission

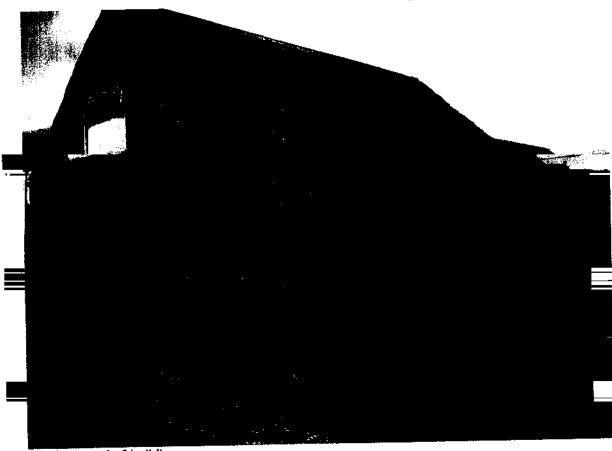
 Institute of Ecology and Environmental Management (2006) Guidelines for Ecological Impact Assessment in the United Kingdom, IEEM

 Limpens H J G A & Kapteyn K (1991) Bats, their behaviour and linear landscape elements, Myotis 29, 39-47.

Mitchell-Jones A J (2004) Bat mitigation guidelines, English Nature.

• Mitchell-Jones A J & McLeish A P (2004) Bat Workers เพล่กับสา; วหปอเวา

# 9 Photographs



Southern end of building

NYMNPA 1 a jugyjągęcymia i Bat droppings under feeding perch

NYMNPA 19 NOV 2007

# 10 Bat record summary sheet

The following bats were recorded during this survey. In order to further pathon conservation strains at the records of the strains at the records of the strains of the str

Unless agreed otherwise a copy of this page only will be passed to the compiler of the local bat record database.

John Drewett BSc, MIEEM
Ecological Consultant
3 Victoria Row
Eppleby
Richmond
North Yorkshire
DLT 78ETT

Tel. 01325 718133 Mobile 07971 893638 johndrewett@btinternet.com

Sits name: Redmire Farm, Tranmire, Whitey, W021 28W

OS Grid Ref. NZ

NZ769106 Number Number

Date Species
09.11.2007 Brown long-

eared

A few droppings, moth &

butterfly wings. A feeding perch.

NYMNPA