

**Whitcher Wildlife Ltd.
Wildlife Consultants.**



**LAND OFF SHEERIEN CLOSE,
ATHERSLEY.**

**PHASE I HABITAT AND PROTECTED
FAUNA SURVEY.**

Ref No:- 120637.

Date:- 6th July 2012.

Cliff Edge, Cliff Road, Darfield, Barnsley, S73 9HR.
Tel. 01226 753271. Fax. 01226 270993.
info@whitcher-wildlife.co.uk www.whitcher-wildlife.co.uk
Company No. 4401613.

TABLE OF CONTENTS.

	Page Number
1. INTRODUCTION.	3
2. SURVEY METHODOLOGY.	4
3. SURVEY RESULTS.	6
4. EVALUATION OF FINDINGS.	14
5. RECOMMENDATIONS.	16
Appendix I. BADGER INFORMATION.	17
Appendix II. WATER VOLE INFORMATION.	19
Appendix III. OTTER INFORMATION.	21
Appendix IV. BAT INFORMATION.	23
Appendix V. GREAT CRESTED NEWT INFORMATION.	24
Appendix VI. CRAYFISH INFORMATION.	26
Appendix VII. SCHEDULE 9 INVASIVE PLANT SPECIES INFORMATION.	28
Appendix VIII. NESTING BIRD INFORMATION.	31
Appendix IX. REPTILES. GRASS SNAKE AND ADDER INFORMATION.	32
Appendix X. REPTILES. LIZARD INFORMATION.	33
Appendix XI. ANNOTATED MAP OF THE SURVEY AREA.	35
Appendix XII. TARGET NOTES.	37
Appendix XIII. DATA SEARCH RESULTS.	38

1. INTRODUCTION.

1.1. Yorkshire Housing are drawing up plans for the development of an area of land off Sheerien Close in Athersley.

1.2. A Phase 1 Habitat survey of the site was commissioned to identify any issues that may affect the proposed development.

1.3. Whitcher Wildlife Ltd carried out the survey on the 5th July 2012. This report outlines the findings of the survey and makes appropriate recommendations.

1.4. Appendices I to X of this report provide additional information on specific species and are designed to assist the reader to understand the contents of this report.

2. SURVEY METHODOLOGY.

2.1. Prior to visiting the site the survey area was cross referenced to maps and aerial photographs to give a general idea of the habitats within the area and to identify potential access and walking routes.

2.2. The survey area was walked where access was agreed and public rights of way were used where no access was agreed. All habitats within and immediately around the survey area were documented and the dominant species within that habitat listed in line with the JNCC Handbook for Phase 1 Habitat surveys.

2.3. The survey area and immediate surrounding area was thoroughly searched for evidence of badger (*Meles meles*) activity by looking for the following signs in line with Harris S, Cresswell P and Jefferies D (1989). *Surveying Badgers*. Mammal Society:-

- * Badger setts.
- * Badger latrines or dung pits.
- * Badger snuffle holes and evidence of foraging.
- * Badger paths.
- * Badger prints in areas of soft mud.
- * Badger hairs caught on fencing.

2.4. All watercourses within the survey area and for approximately 50m in each direction were thoroughly searched for evidence of water vole (*Arvicola terrestris*) activity by looking for the following signs, in line with the guidance in the Water Vole Handbook:-

- * Water vole burrows.
- * Water vole faeces and latrines.
- * Water vole feeding stations.
- * Water vole runs.
- * Water vole prints in areas of soft mud.
- * Water vole lawns.
- * Predator field signs.

2.5. All watercourses within the survey area and for approximately 100m in each direction were thoroughly searched for evidence of otter (*lutra lutra*) activity by looking for the following signs in line with the National Rivers Authority guidelines:-

- * Otter prints in soft mud.

- * Otter spraints.
- * Otter Holts.

2.6. All mature trees and derelict buildings were checked for potential bat roosting sites in line with the Bat Conservation Trust, Good Practice Guidelines by looking for the following signs:-

- * Holes, cracks or crevices.
- * Bat Droppings.

2.7. The land adjacent to the survey area was assessed for bat roosting and foraging potential including connective routes and flight lines.

2.8. The area within 500m of the survey site was cross referenced to maps to highlight all ponds close to the site. Where possible the ponds were accessed using agreed access or public rights of way to assess the potential for great crested newts (*Triturus cristatus*) to be present.

2.9. All watercourses and waterbodies within the survey area and for approximately 50m in each direction were thoroughly searched for the presence of crayfish where safe to enter the water. The survey was carried out in accordance with the Conserving Natural 2000 Rivers Monitoring Series No 1, Protocol for Monitoring the White Clawed Crayfish.

2.10. The survey area was thoroughly searched for the presence of reptiles or suitable reptile habitats.

2.11. All surveys were carried out in line with the IEEM survey standards and advice.

2.12. This survey was carried out by Steven Witcher MIEEM. Since 2002 Steven has had experience in a professional capacity as a Wildlife Consultant carrying out ecology and protected species surveys and Phase 1 Habitat surveys. Steven holds Natural England Survey Licences in respect of bats, great crested newts, crayfish and barn owls and CCW Survey Licences in respect of bats and great crested newts. He has also successfully completed a number of courses run by IEEM, BCT and FSC in the relative protected species, plant species and in carrying out Phase 1 Habitat Surveys.

3. SURVEY RESULTS.

3.1. Data Search Results.

3.1.1. A desktop data search for existing records of protected species or designated sites in the area of the site was submitted to the Barnsley Biological Records Centre (BBRC).

3.1.2. BBRC returned one record of water vole within Athersley/Carlton although this record is not specific to this site. BBRC also returned abundant records of bird species in the area of the site including red and amber listed birds although none of the records were specific to this site.

3.1.3. A full copy of the results returned by BBRC is included in Appendix XIII of this report.

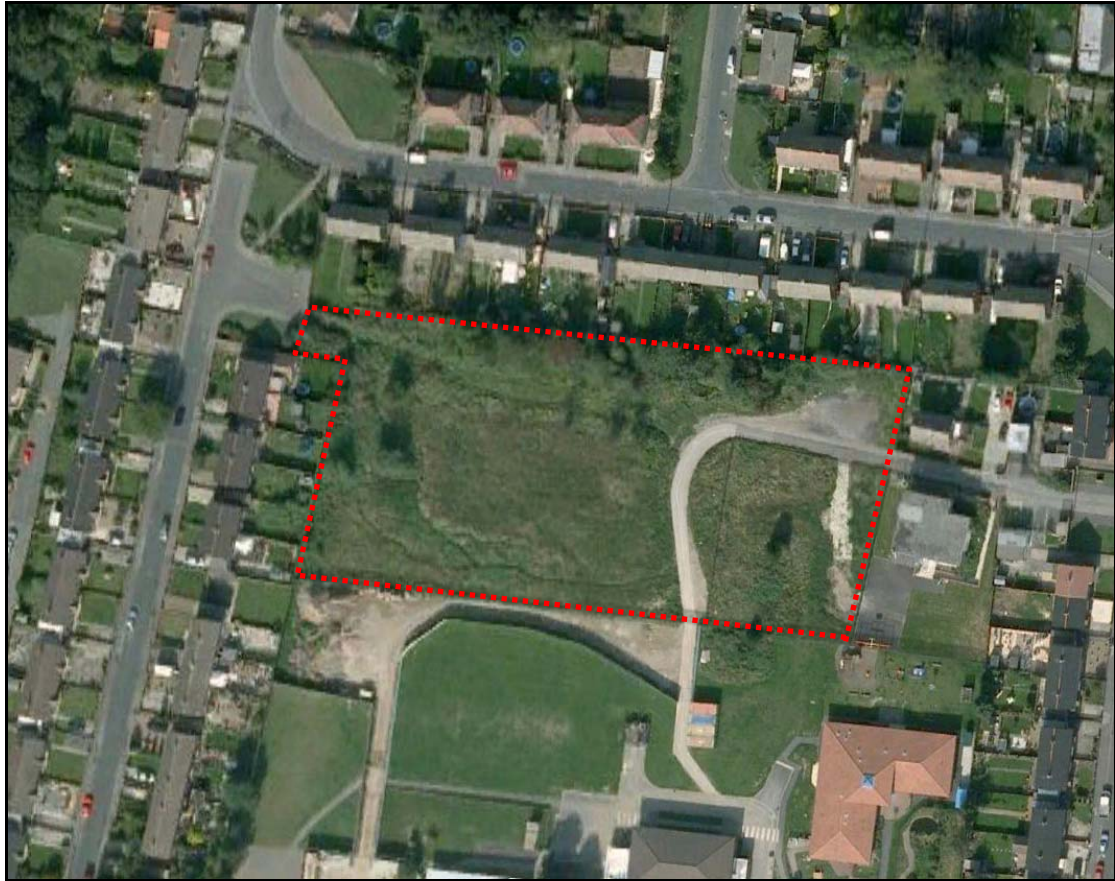
3.1.4. A desktop data search for existing records of protected species or designated sites in the area of the site was also carried out using the National Biodiversity Network (NBN) Gateway and MAGIC websites.

3.1.5. The NBN Gateway holds records of great crested newts, grass snakes, badgers, daubentons bats, otters and water voles within a 10km grid square around the site although there are no specific locations for the records.

3.1.6. There are no records of designated sites in the area of the site on the MAGIC website.

3.2. The Surveyed Area.

3.2.1. The surveyed area was an area of land off Sheerien Close in Athersley, as shown on the plan below.



3.2.2. The site comprises an area of grassland located in a densely residential area within Athersley.

3.2.3. The land surrounding the site is residential housing immediately surrounding the site with a school immediately to the south. The land further surrounding the site is residential housing to the south with farmland to the north.



3.3. Description of Habitats.

3.3.1. Appendix XI of this report contains annotated maps marked up with the varying habitats that are cross referenced to target notes in Appendix XII of this report. The habitats on and adjacent to the site are:-

- Fences.
- Bare ground.
- Semi improved neutral grassland.
- Scattered scrub.
- Mixed scattered trees.
- Tall ruderal.
- Amenity grassland.

3.3.2. Fences: The site lies within an area of residential housing with a school immediately to the south. The site boundaries therefore comprise a mixture of wooden panel and palisade fencing.



3.3.3. A further area of the site in the southeast corner is fenced from the remaining areas of the site with palisade fencing.

3.3.4. Bare ground: A tarmac access road runs through the eastern side of the site with a small square of hard packed earth adjacent to the road.



3.3.5. Semi improved neutral grassland: The main area of the site comprises untended semi improved neutral grassland.



3.3.6. The grassland comprises perennial rye grass (*Lolium perenne*), cocks foot (*Dactylis glomerata*), common couch (*Elytrigia repens*), false oat grass (*Arrhenatherum elatius*), Yorkshire fog (*Holcus lanatus*), tufted hair grass (*Deschampsia cespitosa*) and timothy (*Phleum pratense*). The grass land also includes occasional tufted vetch (*Vicia cracca*), clover (*Trifolium repens*), broad leaved dock (*Rumex obtusifolius*), thistle (*Cirsium sp*), nettle (*Urtica dioica*), poppy (*Papaver rhoeas*) and goosegrass (*Galium aparine*) among other species.

3.3.7. Scattered scrub: Several small areas of scattered scrub were identified around the site. The scrub predominantly comprises bramble (*Rubus fruticosus*). A short section of old overgrown hedge comprising Wilsons honeysuckle (*Lonicera nitida*) was also identified in the northeast corner of the site.

3.3.8. Mixed scattered trees: Occasional scattered semi mature trees were identified around the site. The trees include Norway maple (*Acer platanoides*), hawthorn (*Crataegus monogyna*), oak (*Quercus sp*), crack willow (*Salix fragilis*), goat willow (*Salix caprea*), ash (*Fraxinus excelsior*) and scots pine (*Pinus sylvestris*).



3.3.9. Tall ruderal: There is a small area of tall ruderal species around an entrance to the site on the western boundary. The area predominantly comprises nettle (*Urtica dioica*) and rosebay willowherb (*Chamerion angustifolium*).



3.3.10. Amenity grassland: Immediately to the south of the site there is a school. The grounds of the school immediately adjacent to the boundary of the site comprise frequently mown amenity grassland.

3.4. Description of Fauna.

3.4.1. No badger setts or other badger field signs were identified within the surveyed area.

3.4.2. Occasional paths were identified leading through the grassland. The site is regularly used by dog walkers and therefore it is assumed that the paths within the grassland are due to this.

3.4.3. No watercourses that would provide a suitable habitat for water voles, otters or crayfish were identified within the site.

3.4.4. No structures or mature trees that would provide suitable opportunities for roosting bats were identified within the surveyed area.

3.4.5. No mature hedgerows or woodland areas that would provide suitable foraging routes for bats were identified within the surveyed area. However, a thorough assessment of bat foraging activity within the site could not be carried out during this daytime survey of the site.

3.4.6. No ponds were identified within 500m of the site whilst on site or on a map of the area. Therefore the site does not provide a suitable habitat for great crested newts.

3.4.7. No invasive non native plant species listed on Schedule 9 of the Wildlife and Countryside Act 1981 were identified within the surveyed area.

3.4.8. The vegetation on the site will provide a suitable nesting habitat for various species of bird. No nests were identified during this survey and a very low level of bird activity was identified on the site, potentially due to heavy rainfall during the survey.

3.4.9. The site provides a low potential for reptiles due to the dense, untended nature of the grassland providing very few potential basking sites for reptiles. No reptiles were identified during this survey of the site.

4. EVALUATION OF FINDINGS.

4.1. The habitats on the site are all common habitats found in abundance in the area around the site with no local or UK BAP species identified within the surveyed area.

4.2. There will therefore be no impact on BAP species or designated sites during the work on the site.

4.3. No badger setts or other badger field signs were identified within the surveyed area. Therefore there will be no impact on badgers during the works.

4.4. The paths identified leading through the grassland appeared to be due to the site being regularly used by dog walkers. There were no signs to imply that the paths were made by badgers.

4.5. No watercourses that would provide a suitable habitat for water voles, otters or crayfish were identified within the surveyed area. Therefore there will be no impact on these species during the works.

4.6. No structures or mature trees that would provide suitable bat roosting sites were identified within the surveyed area. Therefore there will be no direct impact on bats during the works.

4.7. The adjacent residential houses may provide suitable bat roosting sites although these areas will remain completely unaffected by the proposed works.

4.8. The site does not provide mature hedgerows or woodlands that would provide suitable foraging routes or flight paths for bats. Therefore, although it is assumed that there will be foraging bats in the area of the site the proposed development will not have an impact upon the foraging potential of the surrounding area.

4.9. No ponds were identified within 500m of the site whilst on site or on maps of the area. Therefore the site does not provide a suitable habitat for great crested newts and there will be no impact on the species during the proposed development.

4.10. No invasive non native plant species listed on Schedule 9 of the Wildlife and Countryside Act 1981 were identified within the surveyed area. Therefore there is no risk of plant species being spread during the works.

4.11. The vegetation on the site will provide a suitable nesting habitat for various species of birds during the nesting season, which extends from March to September each year.

4.12. No nests were identified during this survey and a very low level of bird activity was identified around the site during this survey, potentially due to the heavy rainfall at the time of this survey.

4.13. If the vegetation on the site is cleared within the nesting season the work will potentially have a very high impact on any nests present.

4.14. The site provides a low potential for reptiles due to the dense nature of the grassland and the lack of suitable basking sites. No reptiles were identified during this survey. The land surrounding the site is also densely urban further reducing the potential for reptiles to be present on the site.

4.15. It is therefore assessed that the proposed development will have a very low impact on reptiles.

5. RECOMMENDATIONS.

5.1. It is recommended that the development takes into account the potential for foraging bats in the area of the site and that all lighting is down lighting to reduce light pollution on the surrounding areas.

5.2. It is recommended that any vegetation clearance work is carried out outside the nesting season, which extends from March to September each year.

5.3. If any vegetation is cleared during the nesting season it must be immediately preceded by a thorough nesting bird survey. Any nests identified must remain undisturbed until the young have fledged.

Steven Whitcher MIEEM.

Natural England Bat Survey Licence Number : 20114125.

Natural England Great Crested Newt Survey Licence Number : 20112476.

Natural England Crayfish Survey Licence Number : 20114754.

Natural England Barn Owl Survey Licence Number : 20120410.

06.07.2012.

Appendix I.

BAGER INFORMATION.

The following background information on the territorial behaviour, ecology and legal protection of badgers is provided to enable the reader to more clearly understand the contents of this report.

1. Territoriality.

Badgers live in social groups called clans and are territorial. Each clan territory can vary considerably in size, from 0.2 sq. km to 1.5 sq. km. The average number of badgers in a clan has been calculated to be six but this number can vary between two and twenty badgers. In areas with a significant badger population there will be contiguous clans and a well-defined boundary between clan territories will exist with the badgers scent marking their boundary with areas of dung pits, called latrines. In areas with relatively low badger populations there will be less competition for territory and the amount of territorial markings will be low or even non-existent.

Territorial boundaries can be defined using a technique called bait marking. Over a two-week period badgers are fed at their main setts with food containing coloured plastic pellets, a different colour at each main sett. The colour of pellet found in dung pits and territorial latrines shows what areas each clan of badgers is occupying.

2. Ecology.

Badgers are omnivorous but their preferred food source is worms and insects. Worms are most abundant in well-grazed pastureland while mixed woodland is a good source of insects and grubs. Badgers have a soft and supple nose with which they snuffle into the ground to find insects. When they do this they leave distinct round holes known as snuffle holes or grubblings. Badgers easily find worms on the surface of well-grazed pastureland and often leave no visible indications of this foraging.

The badger's most important sense is that of smell. They will use particular paths around their territory repeatedly, following a scent trail from previous use. As a result badger paths become well worn. These paths are important to the badgers and obstruction to these paths will interfere with the badger's movement around their territory.

Badgers mate at any time of year but delayed implantation controls the time of birth. Most cubs are born between January and March but they can be born at any time between December and June. An average of two to three badger cubs are born to each sow and will initially be totally dependent on their mother. Cubs do not appear above ground until during April or May when they are 8 – 10 weeks old and are not fully weaned until June of each year.

3. Badger Setts.

A badger sett is any structure or place, which displays signs of current or seasonal use by a badger. Within a badger clan territory there can be several badger setts, which are categorised in the following ways.

Main Sett. There will normally be one main sett in a territory. This will generally be the largest sett in the territory, typically with five or more entrances, will be permanently occupied throughout the year and used as the breeding sett.

Outlying Sett. These are the smallest setts with generally only one or two entrances. They are intermittently occupied and there can be any number in a territory.

Annex Sett. A sett of intermediate size, located close to the main sett and connected by well-defined paths. These are occupied for prolonged periods and may be used as a second breeding sett if there are two breeding sows in the clan.

Subsidiary Sett. A sett of intermediate size, similar to an annex sett but located at some distance from the main sett and not connected to the main sett by defined paths.

4. Legislation

Badgers and their setts are protected by the Protection of Badgers Act 1992. Under the Act it is illegal to:-

- Willfully kill, injure or take a badger or attempt to do so.
- Cruelly ill-treat a badger.
- Interfere with a sett by doing any of the following:-
 - (i) damaging a badger sett or any part of it
 - (ii) destroying a badger sett
 - (iii) obstructing access to a badger sett
 - (iv) causing a dog to enter a sett
 - (v) disturbing a badger while it is occupying a sett.

Penalties for offences under the Act are up to six months in prison and a fine of £5,000 for each offence.

Disturbance to a badger in a sett can be caused by working close to a sett.

Before any work goes ahead which will cause damage to setts or disturbance to badgers, a licence will be needed from Natural England in accordance with their guidelines. To obtain a licence an application must be made giving at least one months notice. This application must include full justification for the work, the manner in which any work is to be carried out, full supporting information and a named person capable of carrying out specialised badger work, to supervise that licence. Natural England will normally only issue such licences for work to be carried out between the months of July and October inclusive, to avoid the breeding season, although exceptions may be possible if a sound justification can be made.

Appendix II. WATER VOLE INFORMATION.

It is necessary to understand a little about water voles, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

The water vole is the largest of the British voles. It lives in a series of holes or burrows at the waters edge and can be found along the banks of ditches, streams, rivers, lakes and canals. Although water voles live in colonies, the breeding females are territorial, each defining their contiguous territory with latrines during the breeding season. This lasts from March to October.

The water vole is herbivorous, feeding primarily on the lush aerial stems and leaves of waterside plants growing along side the watercourse. Its activity is normally confined to the area within two metres of the watercourse. Bankside vegetation in this area is not only essential for food but also for cover from predators.

The water vole population has been on the decline in recent years. This is partly due to loss of suitable riverside habitats but also due to the increasing population of predators, particularly the escaped American mink. Population decline has been dramatic and has accelerated over the last seven years. Surveys carried out by the Vincent Wildlife Trust show a loss of 67% of occupied sites and of 88% of the remaining population in the last seven years.

The water vole has received limited legal protection since April 1998 when it was included in Schedule 5 of the Wildlife and Countryside Act 1981. Section 9(4) of the Act protects the water vole's place of shelter or protection but does not protect the water vole itself.

From the 6th April 2008 water voles received an increased level of protection, becoming fully covered by the provisions of section 9 of the Wildlife and Countryside Act 1981 (as amended).

Full legal protection under the Act makes it an offence to:

- Intentionally kill, injure or take water voles.
- Possess or control live or dead water voles or derivatives.
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection.
- Intentionally or recklessly disturb water voles whilst occupying a structure or place used for that purpose.
- Sell water voles or offer or expose for sale or transport for sale.
- Publish or cause to be published any advertisement which conveys the buying or selling of water voles.

Appendix III. OTTER INFORMATION.

It is necessary to understand a little about otters, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

Otters are nocturnal and are active all year round. They are large with an adult male reaching 1.2m from nose to tail and weighing about 10kg.

Otters live by undisturbed waters where there is plenty of cover, mostly by freshwater lakes, rivers and quiet small streams as well as some coasts.

Fish are the otter's main source of food, especially eels and they therefore rely on good fish populations. They also eat amphibians and the occasional bird and small mammal.

An otter may use over 40km of river and needs many resting places throughout this range. A female otter will give birth to 1 to 3 cubs in a natal holt which is often away from the main river and must be completely undisturbed.

Generally the only evidence seen of the otter is its faeces or 'spraint', which are deposited along a watercourse in prominent positions.

Once found throughout Britain, most of our otter populations crashed in the 1960's due to poisoning from agricultural pesticides which drained into our river systems. Although this threat has passed and otter numbers are slowly beginning to recover, they are still subject to a number of serious pressures.

- Habitat loss through intensive river management for drainage and flood defence and due to agriculture and urban development.
- Inadequate food supplies, mainly fish.
- Disturbance of breeding sites by people and especially dogs.
- Low water quality and low river flows.
- Roads which cross or run alongside, rivers.

The UK Biodiversity Plan (BAP) contains an otter Species Action Plan (SAP) aimed at maintaining its existing range and population status, as well as increasing the number of populations through re-colonisation.

The otter is listed on Appendix 1 of CITES, Appendix II of the Bern Convention and Annexes II and IV of the Habitats Directive. It is protected under Schedule 5 of the WCA 1981 and Schedule 2 of the Conservation (Natural Habitats, etc.) Regulations, 1994 (Regulation 38). The European sub-species is also listed as globally threatened on the IUCN/WCMC RDL.

- 39.**—(1) It is an offence-
- (a) deliberately to capture or kill an otter;
 - (b) deliberately to disturb an otter;
 - (c) to damage or destroy a breeding site or resting place of an otter.

Appendix IV. BAT INFORMATION.

It is necessary to understand a little about bats, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

Over 15 species of bat have been recorded in Britain. These fall into two families, the horseshoe bats and the 'ordinary bats'. They are extremely difficult to identify in the hand and even more so in flight.

All appear to be diminishing in numbers, probably due to shortage of food, caused by pesticides, as insects are their sole diet, and habitat change.

As their diet consists solely of insects, bats hibernate during the winter when their food source is at its most scarce. They will spend the winter in hollow trees, caves, mines and the roofs of buildings.

Certain species, particularly the pipistrelle (the commonest and most widespread British bat) can quickly adapt to man made structures and will readily use these to roost and to rear their young.

Bats are protected under the Wildlife and Countryside Act 1981, The Habitats Regulations 1994 and the Countryside & Rights of Way Act 2000.

It is an offence to intentionally or recklessly kill, injure or capture or disturb bats or to damage, destroy or obstruct access to any place used by bats for shelter or protection.

A breeding or resting site of any bat is known as a bat roost. A bat roost is therefore any structure a bat uses for shelter or protection. Because bats tend to use the same roosts each year, legal opinion is that the roost site is protected whether or not the bats are present at that time.

Bat roosts can be identified by looking for:-

- Suitable holes, cracks and crevices.
- Bat droppings.
- Prey remains.
- By carrying out night observations using a bat detector.

Where development proposals are likely to affect a bat roost site, a licence is required from Natural England.

The person applying for that licence has to be suitably qualified and experienced in bat matters. That person is then responsible for ensuring that the measures contained in the licence are carried out.

Appendix V.

BACKGROUND GREAT CRESTED NEWT INFORMATION.

The great crested newt population has suffered a major decline in Britain over the last century. Numerous ponds have been lost, unmanaged ponds have become silted up and over-shaded, development has destroyed ponds and associated terrestrial habitat and caused fragmentation of populations. The loss of grassland, scrub and woodland has resulted in fewer opportunities for foraging, dispersal and hibernation.

The UK Biodiversity Plan (BAP) contains a great crested newt Species Action Plan (SAP) aimed at maintaining its existing range and population status, as well as increasing the number of populations through re-colonisation.

The great crested newt is listed on Schedule 5 of the Wildlife and Countryside Act 1981, recently modified by the Countryside and Rights of Way Act 2000. The great crested newt is therefore subject to the provisions of Schedule 9, which make it an offence to:

- Intentionally kill, injure or take a great crested newt.
- Possess or control any live or dead specimen or anything derived from a great crested newt.
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection by a great crested newt.
- Intentionally or recklessly disturb a great crested newt while it is occupying a structure or place, which it uses for that purpose.

The great crested newt is also listed on Annex II and Annex IV of The Conservation (Natural Habitats &c) Regulations 1994. Regulation 39 makes it an offence to:

- Deliberately capture or kill a great crested newt
- Deliberately disturb a great crested newt.
- Deliberately take or destroy the eggs of a great crested newt.
- Damage or destroy a breeding site or resting place of a great crested newt.

The legislation applies to all life stages of great crested newts.

The maximum fine on conviction of offences under Section 9 and Regulation 39 currently stands at £5,000. The CroW Act 2000 amendment also allows for a custodial sentence of up to six months instead of, or in addition to, a fine. In addition, items, which may constitute evidence of the commission of an offence, may be seized and detained.

In order to understand the potential effects of development it is essential to understand a little of the great crested newt ecology.

Great crested newts breed in ponds and other water bodies. They can begin to migrate to their breeding ponds as early as the first frost-free days in late January with the majority reaching their breeding ponds by mid March. Timing will be influenced by a number of factors, mainly evening temperatures above 5C and recent rain.

The peak egg-laying period is from mid-March to mid-May. The newts will lay their eggs individually, mainly on the leaves of submerged plants. The larva hatch after three weeks and then take another 2-3 months to complete larval development. Adult newts generally leave their breeding ponds from late May onwards.

Once the larvae have completed metamorphosis (the transition from aquatic larvae to land-adapted juveniles, called efts), they emerge from the pond. This emergence begins in late August and generally continues until late October. It takes 2-4 years to reach sexual maturity, during which time the newts will be land based.

Adults and immature newts spend the winter in places that afford protection from frost and flooding. This will generally be underground amongst tree roots, in mammal burrows, or under suitable refuges above ground like deadwood or rubble piles. Hibernation may last from October to February.

Whilst on land, outside the hibernation period, great crested newts will forage at night, taking a wide range of invertebrate prey.

From the above, it can be seen that great crested newts spend the majority of their time on land and only visit the ponds for breeding purposes. As a result, surveys need to be timed very carefully. Terrestrial surveys are very inaccurate and the only time that surveys can be truly thorough is in the narrow window of opportunity between March and September.

Great crested newts will travel large distances between ponds and terrestrial refuges. It is recommended that anywhere within 500m of a pond should be treated as potential great crested newt habitat and should be surveyed and evaluated.

An experienced surveyor must carry out the surveys and must be in possession of an appropriate Natural England great crested newt survey licence.

It is essential that great crested newt surveys are planned well in advance of any development and ideally before Planning Consent is sought. Surveys can only be carried out at the appropriate time of year and repeat surveys are essential. The guidelines suggest that between four and six surveys need to be carried out, three of these between mid-March and mid-June.

If great crested newts are to be effected by any development, a thorough assessment of the population is essential followed by the design of a comprehensive mitigation package. Only when this has been done can a licence application be submitted to Natural England for approval. It takes 30 working days for a licence application to be determined and the period of time that mitigation measures take can be measured in months. It is therefore essential to plan well in advance of development commencing.

Appendix VI. CRAYFISH INFORMATION.

It is necessary to understand a little about crayfish, their basic nature, ecology and legal protection in order to evaluate the findings of this report.

Crayfish are the largest and most mobile freshwater invertebrate. The white-clawed crayfish (*Austropotamobius pallipes*) is the only native crayfish and this is protected under European and UK legislation.

White clawed crayfish are generally found in areas with relatively hard, mineral rich waters on calcareous and rapidly weathering rocks. They can be found in a wide variety of environments including canals, streams, rivers, lakes reservoirs and water-filled quarries.

White clawed crayfish are typically found in water between 0.75 and 1.25m deep but can occur in very shallow streams with as little water as 50mm and in deeper, slow flowing rivers. They are typically found under rocks and submerged logs or among tree roots and in river-banks. White clawed crayfish are omnivorous but primarily carnivorous eating macro invertebrates and carrion when available. They will also eat worms, insect larvae, snails, small fish, macrophytes, algae and calcified plants.

Crayfish can live for up to ten years and generally reach sexual maturity after three to four years. Breeding takes place between September and November when the water temperature drops consistently to below ten degrees centigrade. Females over winter with a clutch of eggs held beneath their tail. These may number from 20 to 120 and hatch on the female. The juveniles are released from the mother from June in the south to August in the north.

The main threat to the indigenous white-clawed crayfish is the spread of introduced non indigenous species, particularly the larger, faster growing and aggressive North American signal crayfish (*pacifastacus leniusculus*). They are also vulnerable to disease, particularly porcelain disease and crayfish plague, and the latter carried by the signal crayfish.

Crayfish are also extremely vulnerable to pollution incidents, particularly those involving biocides, silage and sheep dip.

As a result, white-clawed crayfish are endangered across most of its range and has been given protection under both European and UK legislation.

The white-clawed crayfish is listed on Annex V of the Habitats Directive (EEC 1992), which means that Member States should take measures to ensure that the taking of white-clawed crayfish in the wild is compatible with their being maintained at a favourable status.

In 1998, the white-clawed crayfish was added to Schedule 5 of the Wildlife and Countryside Act giving it partial protection in relation to Section 9(1) as far as it relates to taking and in respect of Schedule 9(5). It is therefore an offence to

intentionally take any white-clawed crayfish from the wild and an offence to sell wild crayfish.

Licences are available from English Nature to allow the taking of white-clawed crayfish for certain specified purposes, including scientific or educational purposes and for conservation purposes. An English Nature survey licence is required where any survey is aimed at finding white-clawed crayfish and involves handling them for counting or identification purposes.

An English Nature Conservation Licence is required for the purpose of conserving white-clawed crayfish or introducing them to particular areas.

Non indigenous crayfish species are also covered under the wildlife and Countryside Act 1981. Section 14 makes it an offence for any person to (a) release or allow to escape, any wild animal which is of a kind not ordinarily resident in or a regular visitor to Great Britain in a wild state or; (b) is included in Schedule 9 of the Wildlife and Countryside Act.

Three species of non-indigenous crayfish are listed on Schedule 9. These are the signal crayfish (*Pacifastacus leniusculus*), the narrow clawed crayfish (*Astacus leptodactylus*) and the noble crayfish (*Astacus astacus*). Any of these three species found during a survey cannot be returned to the wild.

Appendix VII. SCHEDULE 9 INVASIVE PLANT SPECIES.

1. Schedule 9 of the Wildlife and Countryside Act 1981 contains a list of invasive species of plant. Species listed under Schedule 9 are prohibited from release into the wild. Schedule 9, Section 14(2) prohibits 'planting' or 'causing to grow' in the wild of any plant listed in Part 2 of Schedule 9.

2. The following is a list of all the species of plant listed under Schedule 9 of The Wildlife and Countryside Act 1981.

Common Name	Latin Name
Alexanders, Perfoliate	<i>Smyrniium perfoliatum</i>
Algae, Red	<i>Grateloupia luxurians</i>
Archangel, Variegated Yellow	<i>Lamiastrum galeobdolon subsp. Argentatum</i>
Azalea, Yellow	<i>Rhododendron luteum</i>
Balsam, Himalayan	<i>Impatiens glandulifera</i>
Cotoneaster	<i>Cotoneaster horizontalis</i>
Cotoneaster, Entire Leaved	<i>Cotoneaster integrifolius</i>
Cotoneaster, Himalayan	<i>Cotoneaster simonsii</i>
Cotoneaster, Hollyberry	<i>Cotoneaster bullatus</i>
Cotoneaster, Small Leaved	<i>Cotoneaster microphyllus</i>
Creeper, False Virginia	<i>Parthenocissus inserta</i>
Creeper, Virginia	<i>Parthenocissus quinquefolia</i>
Dewplant, Purple	<i>Disphyma crassifolium</i>
Fanwort (Carolina Water-Shield)	<i>Cabomba caroliniana</i>
Fern, Water	<i>Azolla filiculoides</i>
Fig, Hottentot	<i>Carpobrotus edulis</i>
Garlic, Three-cornered	<i>Allium triquetrum</i>
Hyacinth, Water	<i>Eichhornia crassipes</i>
Kelp, Giant	<i>Macrocystis pyrifera</i>
Kelp, Giant	<i>Macrocystis angustifolia</i>
Kelp, Giant	<i>Macrocystis intergrifolia</i>
Kelp, Giant	<i>Macrocystis laevis</i>
Kelp, Japanese	<i>Laminarial japonica</i>
Knotweed, Giant	<i>Fallopia sachalinensis</i>

Knotweed, Hybrid	<i>Fallopia japonica x Fallopia sachalinensis</i>
Knotweed, Japanese	<i>Fallopia japonica</i>
Leek, Few-flowered	<i>Allium paradoxum</i>
Lettuce, Water	<i>Pistia stratiotes</i>
Montbretia	<i>Crocoshmia x crocosmiiflora</i>
Parrot's Feather	<i>Myriophyllum aquaticum</i>
Pennywort, Floating	<i>Hydrocotyle ranunculoides</i>
Potato, Duck	<i>Sagittaria latifolia</i>
Primrose, Floating Water	<i>Ludwigia peploides</i>
Primrose, Water	<i>Ludwigia grandiflora</i>
Primrose, Water	<i>Ludwigia uruguayensis</i>
Rhododendron	<i>Rhododendron ponticum</i>
Rhododendron	<i>Rhododendron ponticum x Rhododendron maximum</i>
Rhubarb, Giant	<i>Gunnera tinctoria</i>
Rose, Japanese	<i>Rosa rugosa</i>
Salvinia, Giant	<i>Salvinia molesta</i>
Seafingers, Green	<i>Codium fragile</i>
Seaweed, Californian Red	<i>Pilea californica</i>
Seaweed, Hooked Asparagus	<i>Asparagopsis armata</i>
Seaweed, Japanese	<i>Sargassum muticum</i>
Seaweeds, Laver (except native species)	<i>Porphyra spp except</i>
	<i>p. amethystea</i>
	<i>p. leucosticte</i>
	<i>p. linearis</i>
	<i>p. miniata</i>
	<i>p. purpurea</i>
	<i>p. umbilicalis</i>
Stonecrop, Australian Swamp (New Zealand Pygmyweed)	<i>Crassula helmsii</i>
Wakame	<i>Undaria pinnatifida</i>
Waterweed, Curly	<i>Lagarosiphon major</i>
Waterweeds	<i>All species of the genus Elodea</i>

3. The Government has acknowledged the problems that can be caused by non-native invasive species. In 2008 the Government launched "The Invasive Non-Native

Species Framework Strategy for Great Britain”. The strategy provides a framework for a more co-ordinated approach to invasive species management. It seeks to create a stronger sense of shared responsibility across government, key organisations, land managers and the public.

4. The Non Native Species Secretariat has been established to oversee the implementation of the strategy. Details of the secretariat including risk assessments and action plans for some species are available at www.nonnativespecies.org.

5. In general there are four basic methods of controlling weeds; mechanical, chemical, natural and environmental.

5.1. Mechanical control includes cultivation, hoeing, pulling, cutting, raking dredging or other methods to uproot or cut weeds.

5.2. Where this method is used all plant material must be considered “controlled waste” and must be disposed properly.

5.3. Chemical control uses approved herbicides.

5.4. Natural control uses pests and diseases of the target weed to weaken it and prevent it from becoming a nuisance.

5.5. Environmental control works by altering the environment to make it less suitable for weed growth, for example by increasing or decreasing water velocity.

Appendix VIII. NESTING BIRD INFORMATION.

It is necessary to understand a little about the legal protection offered to nesting birds in order to evaluate the findings of this report.

Part 1.-(1) Of the Wildlife and Countryside Act 1981 states that:-

If any person intentionally:-

- (a) kills, injures or takes any wild bird;
- (b) takes, damages or destroys the nest of any wild bird while that nest is in use or being built; or
- (c) takes or destroys an egg of any wild bird,

he shall be guilty of an offence.

Part 1.-(5) of the Act states that:-

If any person intentionally:-

- (a) disturbs any wild bird included in Schedule 1 while it is building a nest or is in, on, or near a nest containing eggs or young; or
- (b) disturbs dependant young of such a bird,

he shall be guilty of an offence and liable to a special penalty.

The Countryside and Rights of Way Act 2000 amends the above by inserting after “intentionally” the words “or recklessly”.

The nesting season will vary according to the weather each year but generally commences in March, peaks during May and June and continues until September.

It is also worth remembering that some birds nest in trees and scrub but others are ground nesting.

The best way to avoid this issue is to plan for vegetation clearance to be carried out outside the bird-nesting season.

Appendix IX.

REPTILES - GRASS SNAKE AND ADDER INFORMATION.

The grass snake (*Natrix natrix*) and the adder (*Vipera berus*) are the two most common snakes to be found in the UK. Adders are found all over Britain while the grass snake becomes rarer towards the north and are rarely found in Scotland.

The grass snake is usually around 120cm long, live in a variety of rough habitats and lay their eggs in warm rotting vegetation. The background colour is dark green and the body is marked with vertical black bars and spots that run along its sides. There is generally a dark collar marking.

The adder is the only native species that is venomous but this is rarely harmful to humans. Adult adders are generally up to 66cm long. Background colouration is a light shade of grey or brown with a black zigzag marking along the length of the back. As with all reptiles, colouration varies and becomes duller as sloughing (skin shedding) approaches.

Both snakes hibernate, spending the winter in burrows or under logs protected from the cold and predators. Maintaining the right body temperature is vital to reptiles' survival. In the morning, they find a warm basking site to heat up their bodies, then later they may move back into the shade because they do not sweat and have to be careful not to overheat. During hot summers, adders will try to move to damper, cooler sites.

Both snakes are protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

Appendix X. REPTILES - LIZARD INFORMATION.

The common or viviparous lizard (*Lacerta vivipara*) is one of three species of lizard that occur in the UK. They have a dry scaly skin and are variable in colour ranging from brown or yellow-brown to almost green with varying patterns of spots or stripes. The typical length of an adult is 150mm, including the tail.

Common lizards hibernate over the winter, emerging from February onwards depending upon the weather. They begin to mate in April and May and the young are born in late July or August. The lizard gives birth to live young, hence the term viviparous, meaning live bearing.

The lizards draw their body warmth from the sun and consequently spend long periods basking in the sun. They are commonly seen on road and railway embankments and on walls where they sit for long periods soaking up the heat of the sun before going to find food.

They occupy a wide range of habitats including woodland, marshes, heathland, moors, sand dunes, hedgerows and bogs.

Common lizards hunt insects, spiders, snails and earthworms. They stun their prey by shaking it and then swallow it whole.

At night, and when startled, they will shelter beneath logs or stones or under other refuges that may be available.

Common lizards are protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

Common lizards should not be confused with the somewhat larger sand lizard (*Lacerta agilis*). These are typically 190mm long and stockier than the common lizard. Their markings are distinctly different being considerably more colourful. Sand lizards are confined to moorland and coastal sand dunes where they lay their eggs in the warm sand. The range of the sand lizard in the UK is therefore very limited. Sand lizards are a European protected species.

The third species of lizard is the slow worm (*Anguis fragilis*), which is frequently mis-identified as a snake. The firm body of the slow worm is distinctly cylindrical in shape and the tiny smooth scales result in a very smooth, shiny appearance. Colouration is typically a uniform grey to brown although there is a wide variation from straw coloured to almost black and some animals have very fine stripes or a zig-zag along the centre of the back. The typical length of an adult is 400mm.

Slow worms can be found in a wide variety of habitats throughout Britain and is the most likely reptile to be found in urban and suburban environments.

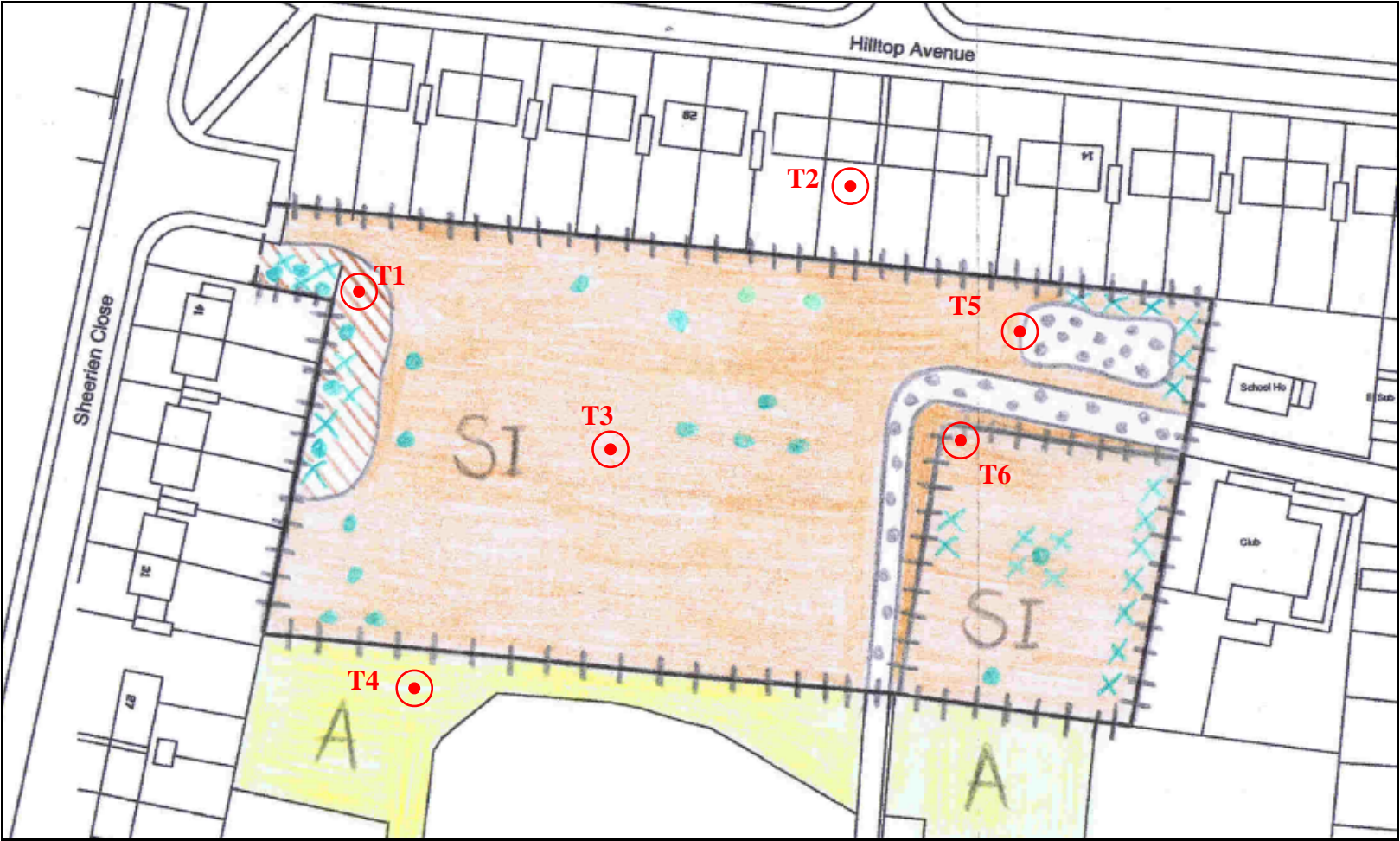
Slow worms hibernate over the winter, emerging from March onwards depending upon the weather. They begin to mate in April and May and six to twelve young are born in August or September.

Their favourite food is slugs but they will also eat insects and spiders.

Slow worms are hard to find. They will bask in the sun but they quickly and quietly move into cover when disturbed and do not generally attract attention as they retreat from a basking spot.

Slow worms are also protected under schedule 5 of the Wildlife and Countryside Act 1981. They received greater protection following reviews of the schedules published in 1988 and 1991. This means they are protected against intentional or recklessly killing and injuring and against sale or transporting for sale.

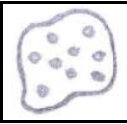
Appendix XI. ANNOTATED MAP OF THE SURVEY AREA.



Key.



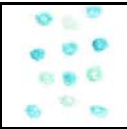
Fences.



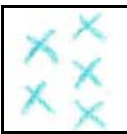
Bare ground.



Semi improved neutral grassland.



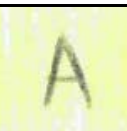
Mixed scattered trees.



Scattered scrub.



Tall ruderal.



Amenity grassland.

Appendix XII. TARGET NOTES.

T1: To the northwest of the site there is an area of tall ruderal species located adjacent to an entrance onto the site. An old overgrown Wilsons honeysuckle hedge was also identified in this area.

T2: The land around the site is predominantly residential gardens. These areas may provide suitable foraging areas for bats although in the absence of light pollution during the development there will be no impact on the foraging habitat.

T3: The main area of the site is dense semi improved neutral grassland with patchy scrub and semi mature trees. Numerous paths were identified crossing the area although the paths appeared to be due to the area being regularly used by dog walkers.

T4: To the south of the site there is a school. The land immediately adjacent to the site boundary is frequently mown amenity grassland.

T5: In the northeast corner of the site there is a small area of compacted bare ground and a tarmac road leading across the site.

T6: There is a small area in the southeast corner of the site that is palisade fenced from the surrounding land. The land within the fencing is also grassland.

Appendix XIII. DATA SEARCH RESULTS.



Grid Ref	Date	Recorders	Group	Scientific Name	Common Name
SE3309	16/04/2006	Stuart Green	bird	<i>Alauda arvensis</i>	Skylark
SE3309	16/04/2006	Stuart Green	bird	<i>Anthus pratensis</i>	Meadow Pipit
SE3309	16/04/2006	Stuart Green	bird	<i>Carduelis chloris</i>	Greenfinch
SE3309	16/04/2006	Stuart Green	bird	<i>Emberiza citrinella</i>	Yellowhammer
SE3309	16/04/2006	Stuart Green	bird	<i>Emberiza schoeniclus</i>	Reed Bunting
SE3309	16/04/2006	Stuart Green	bird	<i>Erithacus rubecula</i>	Robin
SE3309	16/04/2006	Stuart Green	bird	<i>Fringilla coelebs</i>	Chaffinch
SE3309	16/04/2006	Stuart Green	bird	<i>Passer domesticus</i>	House Sparrow
SE3309	16/04/2006	Stuart Green	bird	<i>Phylloscopus trochilus</i>	Willow Warbler
SE3309	16/04/2006	Stuart Green	bird	<i>Prunella modularis</i>	Dunnock
SE3309	16/04/2006	Stuart Green	bird	<i>Streptopelia decaocto</i>	Collared Dove
SE3309	16/04/2006	Stuart Green	bird	<i>Troglodytes troglodytes</i>	Wren
SE3309	16/04/2006	Stuart Green	bird	<i>Turdus merula</i>	Blackbird
SE3309	16/04/2006	Stuart Green	bird	<i>Turdus philomelos</i>	Song Thrush
SE3309	16/04/2006	Stuart Green	bird	<i>Turdus viscivorus</i>	Mistle Thrush
SE3309	13/05/2006	Stuart Green	bird	<i>Alauda arvensis</i>	Skylark
SE3309	13/05/2006	Stuart Green	bird	<i>Anthus pratensis</i>	Meadow Pipit
SE3309	13/05/2006	Stuart Green	bird	<i>Carduelis cannabina</i>	Linnet
SE3309	13/05/2006	Stuart Green	bird	<i>Carduelis chloris</i>	Greenfinch
SE3309	13/05/2006	Stuart Green	bird	<i>Corvus corone subsp. corone</i>	Carrion Crow
SE3309	13/05/2006	Stuart Green	bird	<i>Emberiza citrinella</i>	Yellowhammer
SE3309	13/05/2006	Stuart Green	bird	<i>Erithacus rubecula</i>	Robin
SE3309	13/05/2006	Stuart Green	bird	<i>Falco tinnunculus</i>	Kestrel
SE3309	13/05/2006	Stuart Green	bird	<i>Fringilla coelebs</i>	Chaffinch
SE3309	13/05/2006	Stuart Green	bird	<i>Parus major</i>	Great Tit
SE3309	13/05/2006	Stuart Green	bird	<i>Passer domesticus</i>	House Sparrow
SE3309	13/05/2006	Stuart Green	bird	<i>Phasianus colchicus</i>	Pheasant
SE3309	13/05/2006	Stuart Green	bird	<i>Phylloscopus collybita</i>	Chiffchaff
SE3309	13/05/2006	Stuart Green	bird	<i>Phylloscopus trochilus</i>	Willow Warbler
SE3309	13/05/2006	Stuart Green	bird	<i>Prunella modularis</i>	Dunnock
SE3309	13/05/2006	Stuart Green	bird	<i>Streptopelia decaocto</i>	Collared Dove

SE3309	13/05/2006	Stuart Green	bird	<i>Sturnus vulgaris</i>	Starling
SE3309	13/05/2006	Stuart Green	bird	<i>Sylvia atricapilla</i>	Blackcap
SE3309	13/05/2006	Stuart Green	bird	<i>Sylvia communis</i>	Common Whitethroat
SE3309	13/05/2006	Stuart Green	bird	<i>Sylvia curruca</i>	Lesser Whitethroat
SE3309	13/05/2006	Stuart Green	bird	<i>Troglodytes troglodytes</i>	Wren
SE3309	13/05/2006	Stuart Green	bird	<i>Turdus merula</i>	Blackbird
SE3309	13/05/2006	Stuart Green	bird	<i>Turdus philomelos</i>	Song Thrush
SE3309	13/05/2006	Stuart Green	bird	<i>Turdus viscivorus</i>	Mistle Thrush
SE3309	21/05/2006	Stuart Green	bird	<i>Motacilla alba subsp. yarrellii</i>	Pied Wagtail
SE3309	21/05/2006	Stuart Green	bird	<i>Turdus viscivorus</i>	Mistle Thrush
SE3310	01/06/2006	Stuart Green	bird	<i>Apus apus</i>	Swift
SE3310	01/06/2006	Stuart Green	bird	<i>Delichon urbica</i>	House Martin
SE3309	01/06/2006	Stuart Green	bird	<i>Sylvia curruca</i>	Lesser Whitethroat
SE3309	07/06/2006	Stuart Green	bird	<i>Carduelis carduelis</i>	Goldfinch
SE3309	15/06/2006	Stuart Green	bird	<i>Alauda arvensis</i>	Skylark
SE3309	15/06/2006	Stuart Green	bird	<i>Anthus pratensis</i>	Meadow Pipit
SE3309	15/06/2006	Stuart Green	bird	<i>Carduelis carduelis</i>	Goldfinch
SE3309	15/06/2006	Stuart Green	bird	<i>Carduelis chloris</i>	Greenfinch
SE3309	15/06/2006	Stuart Green	bird	<i>Erithacus rubecula</i>	Robin
SE3309	15/06/2006	Stuart Green	bird	<i>Passer domesticus</i>	House Sparrow
SE3309	15/06/2006	Stuart Green	bird	<i>Phylloscopus collybita</i>	Chiffchaff
SE3309	15/06/2006	Stuart Green	bird	<i>Phylloscopus trochilus</i>	Willow Warbler
SE3309	15/06/2006	Stuart Green	bird	<i>Prunella modularis</i>	Dunnock
SE3309	15/06/2006	Stuart Green	bird	<i>Streptopelia decaocto</i>	Collared Dove
SE3309	15/06/2006	Stuart Green	bird	<i>Sylvia communis</i>	Common Whitethroat
SE3309	15/06/2006	Stuart Green	bird	<i>Troglodytes troglodytes</i>	Wren
SE3309	15/06/2006	Stuart Green	bird	<i>Turdus merula</i>	Blackbird
SE3309	15/06/2006	Stuart Green	bird	<i>Turdus philomelos</i>	Song Thrush
SE3309	20/05/2007	Stuart Green	bird	<i>Accipiter nisus</i>	Sparrowhawk
SE3309	20/05/2007	Stuart Green	bird	<i>Turdus viscivorus</i>	Mistle Thrush
SE3309	11/06/2007	Stuart Green	bird	<i>Erithacus rubecula</i>	Robin
SE3309	11/06/2007	Stuart Green	bird	<i>Phylloscopus collybita</i>	Chiffchaff

SE3309	06/07/2007	Stuart Green	bird	Apus apus	Swift
SE3309	06/07/2007	Stuart Green	bird	Delichon urbica	House Martin
SE3310	15/05/2008	Stuart Green	bird	Apus apus	Swift
SE3310	15/05/2008	Stuart Green	bird	Carduelis cannabina	Linnet
SE3310	15/05/2008	Stuart Green	bird	Carduelis carduelis	Goldfinch
SE3310	15/05/2008	Stuart Green	bird	Carduelis chloris	Greenfinch
SE3310	15/05/2008	Stuart Green	bird	Corvus corone subsp. corone	Carrion Crow
SE3310	15/05/2008	Stuart Green	bird	Delichon urbica	House Martin
SE3310	15/05/2008	Stuart Green	bird	Erithacus rubecula	Robin
SE3310	15/05/2008	Stuart Green	bird	Fringilla coelebs	Chaffinch
SE3310	15/05/2008	Stuart Green	bird	Parus caeruleus	Blue Tit
SE3310	15/05/2008	Stuart Green	bird	Passer domesticus	House Sparrow
SE3310	15/05/2008	Stuart Green	bird	Perdix perdix	Grey Partridge
SE3310	15/05/2008	Stuart Green	bird	Phasianus colchicus	Pheasant
SE3310	15/05/2008	Stuart Green	bird	Phylloscopus collybita	Chiffchaff
SE3310	15/05/2008	Stuart Green	bird	Pica pica	Magpie
SE3310	15/05/2008	Stuart Green	bird	Prunella modularis	Dunnock
SE3310	15/05/2008	Stuart Green	bird	Streptopelia decaocto	Collared Dove
SE3310	15/05/2008	Stuart Green	bird	Sturnus vulgaris	Starling
SE3310	15/05/2008	Stuart Green	bird	Sylvia communis	Common Whitethroat
SE3310	15/05/2008	Stuart Green	bird	Troglodytes troglodytes	Wren
SE3310	15/05/2008	Stuart Green	bird	Turdus merula	Blackbird
SE3310	15/05/2008	Stuart Green	bird	Turdus philomelos	Song Thrush
SE3310	15/05/2008	Stuart Green	bird	Turdus viscivorus	Mistle Thrush
SE3409	27/05/2008	Graham Speight	bird	Aegithalos caudatus	Long-Tailed Tit
SE3409	27/05/2008	Graham Speight	bird	Alauda arvensis	Skylark
SE3409	27/05/2008	Graham Speight	bird	Apus apus	Swift
SE3409	27/05/2008	Graham Speight	bird	Carduelis carduelis	Goldfinch
SE3409	27/05/2008	Graham Speight	bird	Carduelis chloris	Greenfinch
SE3409	27/05/2008	Graham Speight	bird	Columba palumbus	Woodpigeon
SE3409	27/05/2008	Graham Speight	bird	Corvus corone subsp. corone	Carrion Crow
SE3409	27/05/2008	Graham Speight	bird	Emberiza citrinella	Yellowhammer

SE3409	27/05/2008	Graham Speight	bird	<i>Erithacus rubecula</i>	Robin
SE3409	27/05/2008	Graham Speight	bird	<i>Fringilla coelebs</i>	Chaffinch
SE3409	27/05/2008	Graham Speight	bird	<i>Parus caeruleus</i>	Blue Tit
SE3409	27/05/2008	Graham Speight	bird	<i>Passer domesticus</i>	House Sparrow
SE3409	27/05/2008	Graham Speight	bird	<i>Phasianus colchicus</i>	Pheasant
SE3409	27/05/2008	Graham Speight	bird	<i>Phylloscopus collybita</i>	Chiffchaff
SE3409	27/05/2008	Graham Speight	bird	<i>Phylloscopus trochilus</i>	Willow Warbler
SE3409	27/05/2008	Graham Speight	bird	<i>Pica pica</i>	Magpie
SE3409	27/05/2008	Graham Speight	bird	<i>Prunella modularis</i>	Dunnock
SE3409	27/05/2008	Graham Speight	bird	<i>Pyrrhula pyrrhula</i>	Bullfinch
SE3409	27/05/2008	Graham Speight	bird	<i>Streptopelia decaocto</i>	Collared Dove
SE3409	27/05/2008	Graham Speight	bird	<i>Sturnus vulgaris</i>	Starling
SE3409	27/05/2008	Graham Speight	bird	<i>Sylvia communis</i>	Common Whitethroat
SE3409	27/05/2008	Graham Speight	bird	<i>Troglodytes troglodytes</i>	Wren
SE3409	27/05/2008	Graham Speight	bird	<i>Turdus merula</i>	Blackbird
SE3409	27/05/2008	Graham Speight	bird	<i>Turdus philomelos</i>	Song Thrush
SE3409	27/05/2008	Graham Speight	bird	<i>Turdus viscivorus</i>	Mistle Thrush
SE3310	08/06/2008	Stuart Green	bird	<i>Aegithalos caudatus</i>	Long-Tailed Tit
SE3310	08/06/2008	Stuart Green	bird	<i>Alauda arvensis</i>	Skylark
SE3310	08/06/2008	Stuart Green	bird	<i>Apus apus</i>	Swift
SE3310	08/06/2008	Stuart Green	bird	<i>Carduelis cannabina</i>	Linnet
SE3310	08/06/2008	Stuart Green	bird	<i>Carduelis carduelis</i>	Goldfinch
SE3310	08/06/2008	Stuart Green	bird	<i>Carduelis chloris</i>	Greenfinch
SE3310	08/06/2008	Stuart Green	bird	<i>Columba palumbus</i>	Woodpigeon
SE3310	08/06/2008	Stuart Green	bird	<i>Corvus corone subsp. corone</i>	Carrion Crow
SE3310	08/06/2008	Stuart Green	bird	<i>Delichon urbica</i>	House Martin
SE3310	08/06/2008	Stuart Green	bird	<i>Emberiza citrinella</i>	Yellowhammer
SE3310	08/06/2008	Stuart Green	bird	<i>Emberiza schoeniclus</i>	Reed Bunting
SE3310	08/06/2008	Stuart Green	bird	<i>Erithacus rubecula</i>	Robin
SE3310	08/06/2008	Stuart Green	bird	<i>Fringilla coelebs</i>	Chaffinch
SE3310	08/06/2008	Stuart Green	bird	<i>Motacilla alba subsp. yarrellii</i>	Pied Wagtail
SE3310	08/06/2008	Stuart Green	bird	<i>Parus caeruleus</i>	Blue Tit

SE3310	08/06/2008	Stuart Green	bird	Parus major	Great Tit
SE3310	08/06/2008	Stuart Green	bird	Passer domesticus	House Sparrow
SE3310	08/06/2008	Stuart Green	bird	Phylloscopus collybita	Chiffchaff
SE3310	08/06/2008	Stuart Green	bird	Prunella modularis	Dunnock
SE3310	08/06/2008	Stuart Green	bird	Streptopelia decaocto	Collared Dove
SE3310	08/06/2008	Stuart Green	bird	Sturnus vulgaris	Starling
SE3310	08/06/2008	Stuart Green	bird	Sylvia atricapilla	Blackcap
SE3310	08/06/2008	Stuart Green	bird	Sylvia communis	Common Whitethroat
SE3310	08/06/2008	Stuart Green	bird	Troglodytes troglodytes	Wren
SE3310	08/06/2008	Stuart Green	bird	Turdus merula	Blackbird
SE3310	08/06/2008	Stuart Green	bird	Turdus philomelos	Song Thrush
SE3310	08/06/2008	Stuart Green	bird	Turdus viscivorus	Mistle Thrush
SE351101	01/01/2009	Brian Lavelle	terrestrial mammal	Arvicola terrestris	Water Vole
SE3410	01/05/2009	Stuart Green	bird	Accipiter nisus	Sparrowhawk
SE3410	01/05/2009	Stuart Green	bird	Alauda arvensis	Skylark
SE3410	01/05/2009	Stuart Green	bird	Carduelis cannabina	Linnet
SE3410	01/05/2009	Stuart Green	bird	Carduelis carduelis	Goldfinch
SE3410	01/05/2009	Stuart Green	bird	Carduelis chloris	Greenfinch
SE3410	01/05/2009	Stuart Green	bird	Columba palumbus	Woodpigeon
SE3410	01/05/2009	Stuart Green	bird	Corvus corone subsp. corone	Carrion Crow
SE3410	01/05/2009	Stuart Green	bird	Delichon urbica	House Martin
SE3410	01/05/2009	Stuart Green	bird	Emberiza citrinella	Yellowhammer
SE3410	01/05/2009	Stuart Green	bird	Erithacus rubecula	Robin
SE3410	01/05/2009	Stuart Green	bird	Fringilla coelebs	Chaffinch
SE3410	01/05/2009	Stuart Green	bird	Locustella naevia	Grasshopper Warbler
SE3410	01/05/2009	Stuart Green	bird	Parus caeruleus	Blue Tit
SE3410	01/05/2009	Stuart Green	bird	Parus major	Great Tit
SE3410	01/05/2009	Stuart Green	bird	Passer domesticus	House Sparrow
SE3410	01/05/2009	Stuart Green	bird	Phasianus colchicus	Pheasant
SE3410	01/05/2009	Stuart Green	bird	Phylloscopus trochilus	Willow Warbler
SE3410	01/05/2009	Stuart Green	bird	Prunella modularis	Dunnock

SE3410	01/05/2009	Stuart Green	bird	<i>Sturnus vulgaris</i>	Starling
SE3410	01/05/2009	Stuart Green	bird	<i>Sylvia atricapilla</i>	Blackcap
SE3410	01/05/2009	Stuart Green	bird	<i>Sylvia communis</i>	Common Whitethroat
SE3410	01/05/2009	Stuart Green	bird	<i>Troglodytes troglodytes</i>	Wren
SE3410	01/05/2009	Stuart Green	bird	<i>Turdus merula</i>	Blackbird
SE3410	02/06/2009	Stuart Green	bird	<i>Apus apus</i>	Swift
SE3410	02/06/2009	Stuart Green	bird	<i>Carduelis chloris</i>	Greenfinch
SE3410	02/06/2009	Stuart Green	bird	<i>Delichon urbica</i>	House Martin
SE3410	02/06/2009	Stuart Green	bird	<i>Fringilla coelebs</i>	Chaffinch
SE3410	02/06/2009	Stuart Green	bird	<i>Parus caeruleus</i>	Blue Tit
SE3410	02/06/2009	Stuart Green	bird	<i>Passer domesticus</i>	House Sparrow
SE3410	02/06/2009	Stuart Green	bird	<i>Phylloscopus collybita</i>	Chiffchaff
SE3410	02/06/2009	Stuart Green	bird	<i>Sturnus vulgaris</i>	Starling
SE3410	02/06/2009	Stuart Green	bird	<i>Sylvia communis</i>	Common Whitethroat
SE3410	02/06/2009	Stuart Green	bird	<i>Troglodytes troglodytes</i>	Wren
SE3410	02/06/2009	Stuart Green	bird	<i>Turdus merula</i>	Blackbird
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Achillea ptarmica</i>	Sneezewort
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Agrostis stolonifera</i>	Creeping Bent
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Alisma plantago-aquatica</i>	Water-Plantain
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Berula erecta</i>	Lesser Water-Parsnip
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Cirsium palustre</i>	Marsh Thistle
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Deschampsia caespitosa</i>	Tufted Hair-Grass
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Epilobium hirsutum</i>	Great Willowherb
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Filipendula ulmaria</i>	Meadowsweet
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	<i>Hypericum tetrapterum</i>	Square-Stalked St. John's-Wort

SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	Juncus conglomeratus	Compact Rush
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	Juncus inflexus	Hard Rush
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	Lotus pedunculatus	Large Bird's-Foot-Trefoil
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	Lycopus europaeus	Gipsywort
SE334096	01/01/2010	Anon@TEP Consultants	flowering plant	Senecio erucifolius	Hoary Ragwort
SE3309	25/09/2011	Paul Townsend	insect - butterfly	Pararge aegeria	Speckled Wood