



**PROPOSED DEVELOPMENT:**

**ERECTION OF FENCE AND EXTENSION TO CHANGING  
ROOMS**

**ECOLOGICAL ASSESSMENT**

**2023**

**ISSUE 1VB**

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## MOUNTAIN HARE PLAYING FIELDS, MERTHYR TYDFIL

### Ecological Assessment

#### Document control

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## NON-TECHNICAL SUMMARY

An ecological assessment was undertaken of land at Mountain Hare Playing Fields, Merthyr Tydfil.

The work involved a phase 1 habitat survey to categorise the habitats present, an assessment of the site's ability to provide suitable habitats for protected species and recommendations for further survey and actions if considered necessary.

The habitats on and adjacent to the site comprise of amenity grassland (football pitch), scrub, hard standing and a building

There are no trees to be removed as part of the proposals.

There isn't enough scrub onsite to support dormice, and there are no records within 2km, food sources are not abundant at the site. As such, providing that this habitat is cleared in accordance with a method statement and ecological supervision, there will be no requirement for further survey effort. If at any point dormice or evidence of dormice are found, all works will cease and a licence from Natural Resources Wales must be applied for prior to works recommencing. In addition to the above, the client has agreed that fencing will be erected in front of scrub habitats and therefore no dormouse habitat will be removed.

There is a building on site that is low potential for roosting bats. No bats were identified roosting within the building during a single emergence survey.

There were no waterbodies on or immediately adjacent to the site which could be suitable for use by breeding great crested newts (or other amphibians). There are records within the data search, however, these records are isolated by roads and infrastructure. There are no suitable habitats for great crested newt to be affected.

No evidence of badger activity was recorded within or immediately adjacent to the site boundary. It is possible that badgers will use the site for foraging, however, no evidence of badger was found throughout. It is unlikely that badgers will use the site for sett building to the high levels of disturbance present at the site.

It should be assumed that all areas of scrub, hedgerow and trees will be utilised by nesting birds during the breeding season. There is no habitat suitable for ground nesting species. The scrub and trees around the peripheries of the site will be retained.

The site provides reptiles with potential habitat for some foraging, basking, sheltering and hibernation purposes.. It is likely that reptiles will be present, however, due to a number of factors justified within this report, the number of reptiles present if any are likely to be low. It is unlikely that any reptile habitat will be disturbed as a result of the proposals.

All site clearance works should be undertaken in accordance with a method statement and ecological supervision to ensure that species are not harmed at any stage of the project.

Mitigation will be required and is outlined within the various habitat and species sections contained herein.

## **1 INTRODUCTION**

### **1.1 OBJECTIVE**

The objectives of this report are to:

- identify the habitats present on the site;
- identify the potential for protected species to be present on site;
- using the information gathered to determine whether there may be any impacts (both positive and negative) on protected species present;
- provide recommendations for further survey as necessary; and
- suggest outline mitigation and enhancement ideas and principles

### **1.2 METHODOLOGY**

To achieve the objectives set out above, the following actions were taken:

- Field based assessments in respect of
  1. Habitats;
  2. Protected species, primarily:
    - i. Bats;
    - ii. Dormice;
    - iii. Otters;
    - iv. Amphibians (particularly great crested newt);
    - v. Badgers
    - vi. Reptiles; and
    - vii. Breeding birds

The impact assessment has been undertaken by ecological feature rather than by section i.e. each subject is discussed and assessed separately and summarised in conjunction with the others.

### **1.3 SITE DESCRIPTION**

The red line development site boundary is located on land adjacent at Mountain Hare Playing Fields, Merthyr Tydfil.

The majority of the site appears to comprise of amenity grassland (playing field) that is regularly managed. There is scrub and trees surrounding the peripheries of the site.

There is a small rectangular rendered building to the north east of the site, the ridge of which runs from north west to south east. The roof is tile. Barge boards and fascias are of uPVC. The roof of the building was replaced in March 2023.

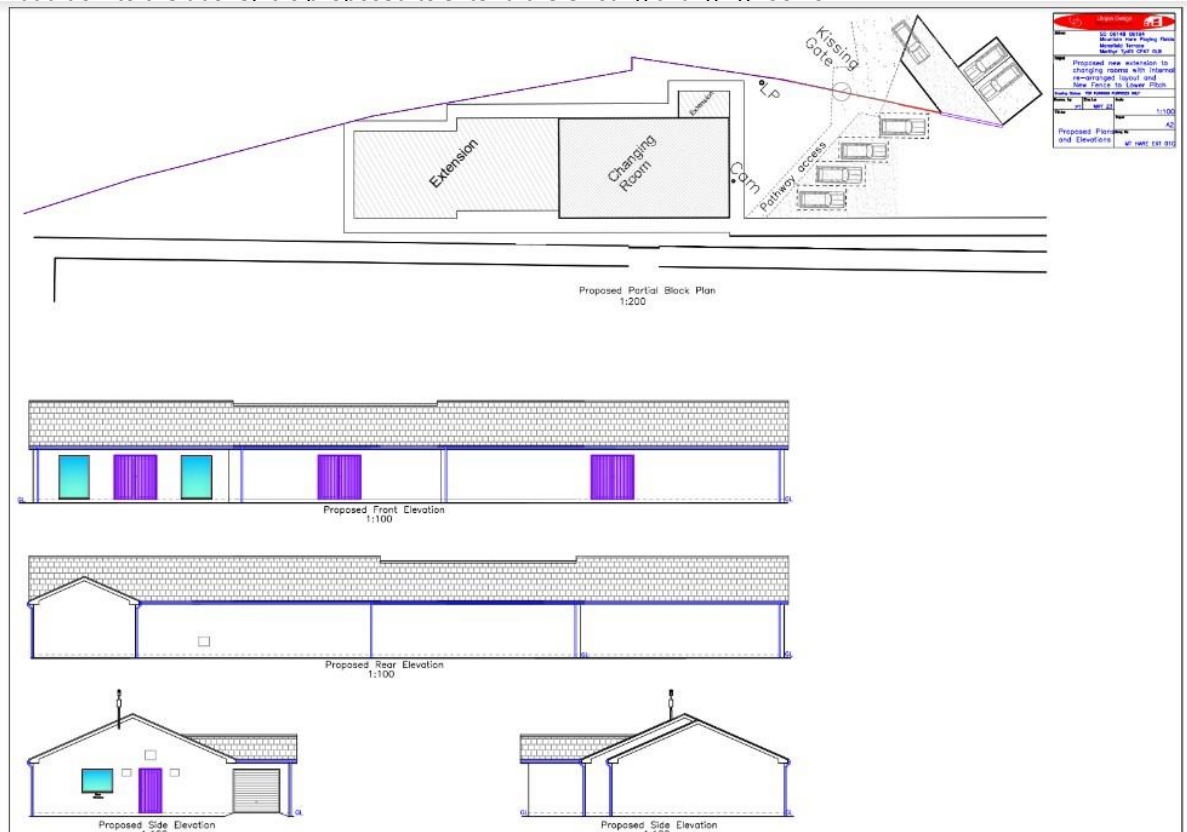
The wider landscape comprises of housing and associated infrastructure with patches of broad-leaved woodland.

## 1.4 PROPOSED DEVELOPMENT

It is proposed to extend the changing rooms and erect a fence.



In addition to the above, it is proposed to extend the existing changing rooms.



## **1.5 STUDY AREA**

The field survey looked at the red line development area itself and up to 20m from the site boundaries wherever possible.

The biological records search covered a search radius of 2000m from the centre of the development site for protected sites (international, national and local), protected and priority species, other species of conservation concern and locally important species. A buffer of 2000m was applied to locally designated sites.

## **2 REGULATORY FRAMEWORK**

### **2.1 INTERNATIONAL**

European Union legislation requires that member states designate sites for the protection of habitats and species included in the annexes of both Council Directive 92/43/EC on the Conservation of Natural Habitats and of Wild Flora and Fauna (the Habitats Directive) and Council Directive 79/409/EEC on the Conservation of Wild Birds (the Birds Directive). This legislation is implemented in the UK by the Conservation of Habitats and Species Regulations 2017 (as amended) (“the Habitat Regulations”). This results in sites being designated as Special Areas of Conservation (SACs) and Special Protection Areas respectively (SPAs).

### **2.2 NATIONAL (UK)**

The Wildlife and Countryside Act 1981 (as amended) allows sites to be designated as Sites of Special Scientific Interest (SSSI) for one or all of the following categories:

- Flora;
- Fauna;
- Habitat; and
- Geological importance.

European designated sites are automatically designated as SSSIs prior to their designation.

Other relevant legislation includes:

- The Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999 (as amended);
- The Wildlife and Countryside Act 1981 (as amended);
- Countryside and Rights of Way Act 2000;
- Environment (Wales) Act 2016
- Wild Mammals (Protection) Act 1996;
- The Protection of Badgers Act 1992; and
- The Hedgerow Regulations 1997.

Section 40 of the Natural Environment and Rural Communities Act 2006 (as amended) requires all public bodies to have regard wherever possible to conserving biodiversity. Section 42 of the Act requires that a list of habitats and species of Principle Importance for the Conservation of Biological Diversity in Wales be produced; however, this has been replaced by Section 7 of the Environment (Wales) Act 2016 Priority Habitats and Species lists.

The Environment (Wales) Act 2016 requires that all public authorities, when carrying out their functions in Wales, seek to “maintain and enhance biodiversity” where it is within the proper exercise of their functions. In doing so, public authorities must also seek to “promote the resilience of ecosystems”.

This ensures that biodiversity is an integral part of the decisions that public authorities take in relation to Wales. It also links biodiversity with the long-term health and functioning of our ecosystems, therefore helping to align the biodiversity duty with the framework for sustainable natural resource management provided in the Act.

In Wales, this legislation replaces and enhances the Natural Environment and Rural Communities Act (2006) which sought to raise the profile of biodiversity and to make sure that it is considered in all local authority decisions by ensuring that “Every public authority must, in exercising its functions, have

regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity.”.

Other elements of NERC 2006 may still apply.

Biodiversity Action Plans (BAPs) are tools which are used to monitor, manage and enhance those habitats and species which are of significance to an area or organisation, The United Kingdom BAP lists a number of priority habitats and species which are of conservation concern.

## **2.3 NATIONAL (WALES)**

Planning Policy Wales (Welsh Government, 2023) and Planning Policy Wales Technical Advice Note 5: Nature Conservation and Planning (Welsh Assembly Government, September 2009) set out the protection given to wildlife (sites, habitats and species) by the planning system operational in Wales.

## **2.4 LOCAL AND REGIONAL**

The proposed development is wholly within the Merthyr Tydfil County Borough Council (MTCBC) area of responsibility. Therefore, all policies adopted by that Planning Authority will apply, including policies which may not be specific to nature conservation or the natural environment but that may apply or be relevant and should be considered during the planning process.

There are a number of habitats and species which are of a high priority to MTCBC. These have been determined following examination of the UK BAP and the Environment (Wales) Act Section 7 list of Priority Species and Habitats and those habitats and species determined to be locally important by the Local Biodiversity Partnership.

## **2.5 PLANNING FRAMEWORK**

The proposed development will be undertaken wholly under the auspices of the Town and Country Planning Act 1990 (as amended).

## **2.6 PREVIOUS SURVEYS**

A walkover survey was undertaken for the erection of a footpath between the changing rooms and the pitches. No notable species were identified.

## **2.7 CONSTRAINTS**

The survey was undertaken at a time of year outside of the main season and as such, the full botanical diversity may not have been apparent.

### **3 DESK STUDY**

#### **3.1 SUMMARY**

There are no records of any priority or protected species, species of local conservation concern or other species of conservation concern from the site or immediately adjacent to it. The closest records are from 90m away. The record is located at the site but the location is described as a different location. The records are for bluebell and bat. The next closest record is for western European hedgehog to the north east of the site.

One SSSI's was identified within the data search.

10 non statutorily designated sites, e.g. Sites of Importance for Nature Conservation were identified within the data search.

#### **3.2 BACKGROUND**

A desk study provides background information on historical and current biological data which can identify ecological constraints, mitigation, and biodiversity enhancement opportunities.

#### **3.3 METHODOLOGY**

The South East Wales Biodiversity Records Centre (SEWBReC) was consulted in order to provide biological information on the presence of species and sites on or adjacent to the site (0234-566 ).

A 2000m search buffer was applied to priority and protected species, species of local conservation concern and other species of conservation concern, statutorily designated sites (for nature conservation purposes) and 1000m locally designated sites.

The Multi-Agency Geographical Information System (MAGIC) website ([www.magic.gov.uk](http://www.magic.gov.uk)) and the Local Biodiversity Action Plan (LBAP) for MTCBC were also consulted.

#### **3.4 CONSTRAINTS**

There were no constraints to the data search

### 3.5 RESULTS

#### 3.5.1 Statutorily protected sites

##### 3.5.1.1 European designated sites

There are no European Designated Sites within 2000m of the development site.

##### 3.5.1.2 United Kingdom designated sites

There is one United Kingdom Designated Sites within 2000m of the development site.

**Table 3** - non-statutorily designated sites within 1km of the proposed development site:

| Site               | Designation | Distance from site |
|--------------------|-------------|--------------------|
| Cwm Glo Y Glyndrys | SSSI        | 1619m              |

There are no features present on the development site that Cwm Glo Y Glyndrys is designated for. The site is isolated by roads and other infrastructure. As a result it is unlikely that this site will be affected and will therefore not be considered further in this report.

#### 3.5.2 Non-statutory designations

The following SINC's are found within 2000m of the site

Pentrebach Tip (1956m)

Cyfarthfa Park (1824m)

Cwm Taf Fechan (1983m)

Afon Taf (1097m)

Merthyr Common South (842m)

Pentrebach Fields (1881m)

Glynmil (672m)

Rhydycar West (1593m)

Cwm Glo (1694m)

Merthyr Common Central (1343m)

There are roads and other infrastructure that separate the site from the SINC's. It is extremely unlikely that these SINC's will be affected by the proposed development and they will therefore not be mentioned further in this report.

### **3.5.3 Species: SEWBrEC data search**

There are no species records for the proposed development site or its immediate vicinity other than

The closest records are of hedgehog, grass vetchling, sparrow, swift, white tailed bumble bee and red tailed bumblebee.

### **3.6 PREVIOUS SURVEYS**

None known.

## 4 PHASE 1 HABITAT SURVEY

### 4.1 SUMMARY

A number of habitats were recorded across and adjacent to the survey area. These included:

- Amenity grassland
- Scrub/ruderal
- Building

The potential for a number of protected species was recorded, including habitats suitable for:

- Bats;
- Badgers;
- Breeding birds;
- Reptiles;
- Invertebrates;

The habitats are shown on **the phase 1 map located in the appendix.**

### 4.2 BACKGROUND

The Phase 1 habitat survey was carried out to assess the existing habitats, identify any protected habitats or species that may be present, determine the impact of the proposed works on them, and identify any mitigation measures that may be necessary. This was done by undertaking both a desk study and field survey.

The survey was undertaken on 12<sup>th</sup> October 2023.

Phase 1 habitat survey is a way of recording the basic habitat data to form a baseline level of knowledge of the ecology of a site and provide recommendations for future surveys if considered necessary.

### 4.3 METHODOLOGY

#### 4.3.1 Desk study:

A biological data search was undertaken. Refer to section 3 above.

#### 4.3.2 Field survey:

Experienced surveyors from BE Ecological Ltd carried out a habitat assessment and mapping exercise in October 2023 using the Phase 1 habitat survey technique. Nomenclature follows Stace (1997)<sup>1</sup>. The survey was carried out by Beth Evans.

Features of note are assigned Target Notes (TN) and referenced accordingly and described at **Appendix E**.

A full species list is at **Appendix C**.

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<sup>1</sup> Stace, C (1997). *New Flora of the British Isles* (2nd Ed.). Cambridge University Press

#### 4.4 CONSTRAINTS

There were no constraints.

#### 4.5 RESULTS

##### 4.5.1 Habitats

The following habitats were found on the site and are mapped at Appendix C.

- Amenity grassland
- Scrub/ruderal
- Building

Photos are located at **Appendix A**

##### 4.5.1.1 *Amenity grassland*

This habitat is found across the main body of the site. The grassland is species poor and well managed with a short sward. A small amount of this will be lost as a result of the footprint of the extensions. A small amount of this habitat will be disturbed for the erection of the fence.

##### 4.5.1.2 *Scrub/ruderal*

There is low lying scrub and ruderal species surrounding the peripheries of the site. It has been agreed that the fence will be erected in front of this habitat so that none of this habitat will be lost to the development. There is an area between the two pitches that contain more mature trees, running north west to south east. This area will not be affected by the fence line.

#### 4.5.2 Protected species assessment

##### 4.5.2.1 Bats

The closest record for members for this group is from approximately 90m from the site and refers to a bat. The next closest record is of a pipistrelle greater than 500m from the site.

There are no mature trees present on the development site to be removed.

The building on the site will be discussed in the bat section of this report.

It is likely that bats will use the site for foraging.

This group will be considered further in this report.

##### 4.5.2.2 Amphibians & great crested newt

There are no waterbodies on the development site which could be used by this group for breeding purposes. The terrestrial habitat on the site could provide amphibians with suitable foraging and sheltering habitat. There are records of great crested newt within the data search, however, the records are isolated from the site by roads, housing and associated infrastructure.

It is considered that amphibians are unlikely to pose an ecological constraint to the development and that only common species (frog and toad with the possibility of smooth and / or palmate newts) are likely to be present on the site. Therefore, it is considered that this group can be safely dealt with via a reasonable avoidance method statement to prevent harm to individuals during site clearance. A method statement will be required.

##### 4.5.2.3 Dormouse

There are no records of dormice within the data search. There are no suitable habitats on site it is considered unlikely that dormice will pose a constraint on the development.

##### 4.5.2.4 Badgers

The closest record of badger is from approximately 828m from the site.

There is suitable habitat for foraging but due to the location, openness and nature of the site, the land is unlikely to be suitable for sett excavation.. There was no sign of badger throughout the survey.

This species will not be mentioned further in this report.

##### 4.5.2.5 Breeding birds

There are multiple records for members of this group within the data search but none from the site.

Birds heard and seen on and adjacent to the site include crow and pigeon.

There is suitable habitat in the onsite scrub for nesting birds. There are no gaps big enough for nesting birds within the onsite building.

The habitats on the site are not considered to be suitable for ground nesting birds given the small overlooked nature of the site, , the high levels of disturbance on the site (horses), the availability of avian predator perches and the presence of predators.

#### 4.5.2.6 Reptiles

There are records of slow worm and common lizard within 2km of the development site. The closest record is of a slow worm approximately 1600m from the site.

The site offers some habitat for this species for foraging, basking, sheltering and hibernation purposes and it should be assumed that slow worm (*Anguis fragilis*), common lizard (*Lacerta vivipara*) and grass snake (*Natrix natrix*) use the site. It is likely that the population densities of these species are at perhaps lower levels given the amount of disturbance at the site (management) and due to the fact that the grass sward is so short. It is likely that small numbers of reptiles may be present on the interfaces between grassland habitat and longer vegetation.

This group will be considered further in this report.

#### 4.5.2.7 Invertebrates

It is likely that common and widespread invertebrates will utilise the site.. It is possible that some Section 7 species will use the site. There are records of section 7 species within the data search.

#### 4.5.3 Other features

None.

## 5 PROTECTED SPECIES

### 5.1 BATS

#### 5.1.1 Summary

There is possibly roosting potential present within the mature trees within the sites boundary (woodland). This habitat must be protected from both direct and indirect impacts. There are records of pipistrelle, noctule, brown long-eared, myotis sp. and lesser horseshoe bats within 2km of the site.

It is likely that a small number of bats species will forage over the site and boundaries. However, given the presence of adjacent habitats, it is considered much more likely that bats will make use of these due to the lack of mature vegetation and trees on the site. Albeit it is still possible that foraging bats will make use of the site, in particular the woodland edge.

There is a building on site that may be suitable for roosting bats, however, due to a number of justifications in this report, impacts on roosting bats are considered unlikely.

#### 5.1.2 Ecology

British bats are small flying nocturnal mammals that feed exclusively upon insects. There are 17 species resident in Britain, ranging in size from the smallest, soprano pipistrelle (*Pipistrellus pygmaeus*) up to the largest noctule (*Nyctalus noctula*), serotine (*Eptesicus serotinus*) and greater horseshoe bat (*Rhinolophus ferrumequinum*). Bats are active from April through to October and hibernate when insects are in short supply in the winter months. Bats emerge from hibernation in late March - early April and move into their transition / intermediary roosts. Female bats will move to maternity sites by the beginning of May and will give birth to a single baby between June and early July. The baby is reared solely by the mother and is weaned and independent by end of August. After breeding, bats move to transition / intermediary roosts and females will visit males at mating roosts. During the autumn, bats feed voraciously to gain weight for the hibernation ahead.

Although traditionally trees, caves and rock faces were used by roosting bats and are still used, many different structures are used nowadays by bats, which take advantage of readymade (man made) roosts. Structures used frequently include bridges, ice-houses, pill-boxes, disused railway tunnels, houses and barns etc. Bats have home ranges which vary from species to species; from just 3-4km from the roost for the smaller bats while the larger noctule may fly 20km or more. Threats to bats include habitat destruction and the severance of commuting routes, use of agricultural pesticides, intensification of farming methods and deliberate persecution by man. Bats have few natural predators; however, the domestic cat is probably the most efficient predator.

#### 5.1.3 Legislation

##### 5.1.3.1 Conservation of Habitats & Species Regulations 2017 (as amended)

The Conservation of Habitats and Species Regulations (2017) provides safeguards for European Protected Species (those listed under Annex IV Habitats Directive). With regards to bats, this makes it an offence to:

- Deliberately (or recklessly in Scotland) capture, injure or kill a bat
- Deliberately (or recklessly in Scotland) disturb a bat in a way that would (significantly in Scotland) affect its ability to survive, breed or rear young (or hibernate or migrate in England, Wales and Northern Ireland) or (significantly in England, Wales and Scotland) affect the local distribution or abundance of the species.
- Damage or destroy a roost (this is an 'absolute' offence)

- Possess, control, transport, sell, exchange or offer for sale/exchange any live or dead bat or any part of a bat

It is possible to undertake damaging activities under the auspices of a European Protected Species Licence issued by Natural Resources Wales which provides a derogation from the Regulations, meaning that an otherwise illegal operation carried out under licence is lawful.

#### 5.1.3.2 *Wildlife & Countryside Act 1981*

The Wildlife & Countryside Act 1981 (as amended) is the legislation for England and Wales for nature conservation, making it an offence to:

- Intentionally or recklessly disturb a bat in or at a roost;
- Intentionally or recklessly obstruct access to a roost;
- Intentionally destroy, damage or otherwise disturb a roost (whether bats are present or not); and
- Intentionally or recklessly kill, injure or take (capture) a bat.

#### 5.1.3.3 *The Environment (Wales) Act, 2016*

The Environment (Wales) Act 2016 requires that all public authorities, when carrying out their functions in Wales, seek to “maintain and enhance biodiversity” where it is within the proper exercise of their functions. In doing so, public authorities must also seek to “promote the resilience of ecosystems”.

This ensures that biodiversity is an integral part of the decisions that public authorities take in relation to Wales. It also links biodiversity with the long-term health and functioning of our ecosystems, therefore helping to align the biodiversity duty with the framework for sustainable natural resource management provided in the Act.

In Wales, this legislation replaces and enhances the Natural Environment and Rural Communities Act (2006) which sought to raise the profile of biodiversity and to make sure that it is considered in all local authority decisions by ensuring that “Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity.”.

Other elements of NERC 2006 may still apply.

#### 5.1.3.4 *Desk study*

Please refer to **section 4.5.2.1** above.

## 5.2 Surveyor Information

The inspection survey was undertaken by Beth Evans. Beth is the owner of BE ECOLOGICAL LTD and has a postgraduate degree in Environmental Biology: Conservation & Resource Management, specialising in British bats. Beth has 11 years' experience of ecological surveys, both in a small scale and large multi-disciplinary context. Beth also holds Natural Resources Wales and Natural England bat licences to disturb and handle bats. Beth was assisted during the activity surveys by Gavin Vella and Dion Rowles. Gavin is an experienced ornithologist and bat surveyor and works with a number of companies within the local area. Dion Rowles has been undertaking bat surveys with BE Ecological Ltd for the last three years and is hoping to eventually work towards his bat licence.

## 5.3 Internal & External Inspection of Onsite Building

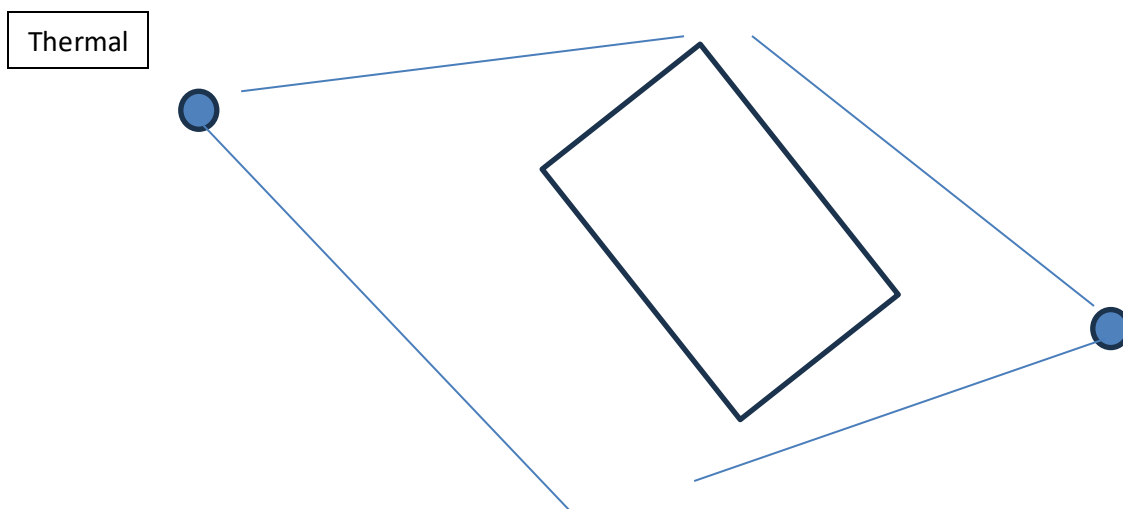
An initial inspection survey was carried out on 10<sup>th</sup> October 2023 to search the building, both internally and externally to identify potential bat roosting areas and signs of bat use including; live bats, dead bats, droppings, urine staining, grease marks and discarded prey items. The buildings and all areas/items of interest were recorded and photographed. Extension ladders/steps were used to safely access areas where no safe access was available the survey was conducted using, close focus binoculars and/or a high powered lamp.

### Activity Surveys (emergence/re-entry surveys)

Building 'emergence' and 're-entry' surveys were carried out on the following dates, times and weather conditions. Climatic conditions including rain, wind, temperature and cloud cover were recorded for each survey using a hand held Kestrel 4500 weather station.

### Survey 1- 6<sup>th</sup> May 2024

A dusk survey was carried out on 6<sup>th</sup> May 2024 using surveyors and cameras positioned in such a way that as much of the building was visible to surveyors as possible. Surveyors were equipped with Batlogger M detectors and a thermal camera.



#### **5.4 Survey limitations**

Any survey for bat species can only be a series of snapshots in time. Bats are highly mobile, long lived creatures (capable of living up to 30 years, sometimes longer) with complex social structures and utilising multiple roost sites within a year. The implications of this are that surveys and surveyors have to make informed assumptions based on observations, recorded data, local information and a detailed knowledge of the species.

A camera was used on two elevations of the building only due to the fact the camera could be placed behind a locked gate. Due to the narrow field of view of the thermal cameras, a camera could not be positioned close to the building on the remaining two elevations. The location would have been along the busy public high way where cars park on the pavement and youths congregate. As such, the decision to not put a camera in this location was made. The camera was also attracting unwanted attention on the side of the road. This was considered unlikely to be a limitation due to the fact that the area is relatively bright and the roof could be seen by surveyors.

## 5.5 Inspection survey

### 5.5.1 External survey results of onsite building

The survey carried out by BE Ecological Ltd revealed no droppings or evidence of bats on the exterior of the building. The roof was replaced in March 2023. No obvious missing/slipped tiles were noted

The majority of soffits are tightly sealed to the building with no obvious gaps, however, small gaps were noted beneath barge boards on the gable ends.

Please see appended plates for photographs of the building exterior. No bats or evidence of bats was found on the exterior of the building.

### 5.5.2 Internal survey results

Internally the building is used as a changing rooms. There are two access hatches present. One is located to the north west, the second is on the south eastern side of the building. The void is approximately 2m from joist to ridge and is lined with breathable membrane. The void is insulated at joist level with fiber glass insulation, the joists are obscured therefore viewing of these areas was only possible from the hatch. Despite this, the majority of the void could be seen and no obvious bats or evidence of bats was noted.

## Activity surveys

The surveys were undertaken as per the table below:

### Survey Schedule and Weather Conditions

**Table 1: Schedule and weather conditions**

| Visit                | Date<br>(sunrise)<br>(sunset) | Start<br><br>End | Time  | Temp<br><br>C | Wind | Cloud<br><br>Cover | Notes                          |
|----------------------|-------------------------------|------------------|-------|---------------|------|--------------------|--------------------------------|
| Survey 1<br>06/05/24 | 20:46                         | Start            | 20:25 | 14            | Low  | 30%                | Dry evening,<br>insects flying |
|                      |                               | End              | 22:20 | 12            | Low  | 15%                |                                |

## Activity Survey Results

### Survey 1- 15<sup>th</sup> May 2023

The first bat heard was a common pipistrelle, approximately 20 minutes post sunrise. The bat was seen commuting along the lane to the north east from the south before commuting north. The only species heard and seen on site were common and soprano pipistrelles. Activity was infrequent throughout the night with common and soprano pipistrelles occasionally heard at both camera/surveyor positions. A total of 7 bats were observed by surveyors, all of which were seen either commuting back and forth the road or along the boundary between the road and the playing field excluding a single bat that was seen commuting along the pitch. No bats emerged from or interacted with the building on this date

### 5.5.3 Bats - impact characterisation

Due to the very few access points noted, the lack of bats identified and due to the fact that the roof was replaced in March 2023, it is considered very unlikely that the extension to the changing rooms will have any impact on roosting bats. In order to safeguard the unlikely event of bats being present, the works will be undertaken in line with a method statement and ecological supervision.

### 5.5.4 Bats - mitigation measures

Mitigation will be required

Protection and mitigation measures will include:

- Retention of the flight lines along all boundaries as unlit dark corridors;
- A method statement for the tying in of the extension will be required along with supervision of the work.
- Any site lighting will conform to that recommended for bats

### 5.5.5 Bats - impact characterisation with mitigation

It is considered that there will be **no adverse** impacts on roosting bats as a result of the development.

### 5.5.6 Bats - significance of the impact

#### Without mitigation

It is considered that the significance of the impact is **slight**

#### With mitigation

It is considered that the significance of the impact is **neutral**

## 5.6 BREEDING BIRDS

### 5.6.1 Summary

A full breeding bird survey was not undertaken as it should be assumed that all the areas of scrub, hedgerow and trees are likely to be used by birds for nesting.

It should be assumed that all scrub and tree vegetation on the site is used by birds for breeding purposes during the nesting season.

The areas of grassland are not considered to be suitable for ground nesting species for breeding purposes as they are small and overlooked and subject to permanent disturbance by management.

### 5.6.2 Ecology

Most British avian species are found breeding during the spring and summer months, between April and August, although some, such as pigeons, and doves will frequently breed at all times of year, as they are not dependent on small, soft-bodied invertebrates to provide food for their chicks. Some other species, such as barn owl (*Tyto alba*) have also been recorded breeding in the winter months, in years when winters have been mild, and small mammal prey plentiful, although such breeding attempts are unusual, with chicks frequently failing to fledge. The breeding season can be extended for most species if the weather is mild, and food plentiful.

Contrary to common belief, whilst some bird species, such as crows and rooks, nest high in trees, often more than 10m high, the majority of British breeding birds will nest within 2m of the ground (or on the ground) within dense scrub or within holes and other natural and manmade cavities in rocks and walls.

Most bird species take considerably less than 60 days from egg-laying to chick fledging, whilst others, such as barn owl, can take more than 90 days. Many, but not all British species will make multiple breeding attempts if environmental conditions and food availability allow.

### 5.6.3 Legislation

In Britain, all naturally occurring avian species are protected under Section 1 of the Wildlife and Countryside Act 1981 (as amended). The legislation protects all birds, their nests and eggs, and it is an offence to:

- Intentionally kill, injure or take a wild bird;
- Intentionally take, damage or destroy the nest of any wild bird whilst it is in use or being built; and
- Intentionally take or destroy the egg of any wild bird.

In addition, birds listed on Schedule 1 of the Act, such as the Red Kite (*Milvus milvus*), are afforded further protection, and it is an offence to:

- Intentionally or recklessly disturb the bird whilst nest building or while at (or near) a nest with eggs or young; and
- Disturb the dependant young of such a bird.

## 5.6.4 Methodology

### 5.6.4.1 Habitat assessment

Signs looked for included:

- Availability of nesting habitat;
- Availability of foraging habitat;
- Territorial displays by birds;
- Courtship displays;
- Territory establishment and holding behaviour;
- Nests;
- Food carrying;

## 5.6.5 Constraints

There were no constraints to the assessment.

## 5.6.6 Results

### 5.6.6.1 Desk study

There were no records of birds from the development site or immediately adjacent land, however, there were multiple records of birds from the data search.

### 5.6.6.2 Habitat assessment

The trees, hedgerows and scrub are considered suitable for nesting birds.

All habitats on the site were suitable for foraging purposes, providing a variety of food sources. It should be assumed that the scattered trees are used for nesting purposes during the breeding season.

It is considered that the site does not provide suitable habitat for ground nesting species as the open areas are small, overlooked by numerous trees, all of which could be used by avian predators and subject of regular disturbance as a result management.

## 5.6.7 Breeding birds – evaluation

Birds should be considered to be of **high national** importance as a result of the legislation protecting them.

Within the context of the site, there is abundant suitable habitat for the smaller and more common species to utilise for nesting and foraging. It is therefore considered that birds are of a **medium local (site)** ecological importance.

## 5.6.8 Breeding birds - impact characterisation

It is anticipated that the main body of the site will be cleared in its entirety. It is considered that no scrub or trees will be removed as part of the proposals. Should minor areas of scrub be impacted as a result of the installation of the fence line, the following will apply.

#### 5.6.9 Breeding birds - mitigation measures

Mitigation will be required and should include (but not be limited to) the following measures:

- All vegetation and brash removal should be undertaken outwith the breeding season i.e. between mid-August / September and April inclusive;
- Any clearance close to the start and end of this period should only be undertaken following an assessment by a suitably experienced ecologist as the breeding season is not fixed and is subject to annual variation;
- Where clearance is required during the breeding season, all areas should be subject to an assessment no more than 48 hours in advance to check for the presence of breeding birds;
- Should evidence of breeding birds, in particularly nests, be recorded, no clearance may be undertaken within 15m of any nest site until such time as the nest is vacated naturally; and
- Any post-development landscaping plan should include the provision of scrub &/or shrub habitats that can be utilised by breeding birds.

#### 5.6.10 Breeding birds - impact characterisation with mitigation

It is considered that any impact on birds will be negligible.

#### 5.6.11 Breeding birds - significance of the impact

##### Without mitigation

It is considered that the significance of the impact is **neutral**

##### With mitigation

It is considered that the significance of the impact is **neutral**.

## 5.7 REPTILES

### 5.7.1 Summary

No reptile survey was undertaken at the site. The majority of grassland is overgrazed and unlikely to be used by reptiles due to management. It is considered likely that if reptiles are present, they will only be present on the interfaces between the grassland and longer areas of vegetation (scrub).

A full trapping and translocation exercise is not considered necessary as long as clearance of the site is undertaken in strict adherence to a method statement designed to prevent harm to any reptiles. A methodology for this will be required at any reserved matters stage.

### 5.7.2 Ecology

Reptiles are ectothermic, meaning they have to rely on external heat sources to warm their blood sufficiently to allow foraging and other activity. During the winter they are in brumation (similar to hibernation), emerging in April (or when the temperatures are consistently warm enough). Males tend to emerge before females, to enable them to prepare for mating. Females emerge a few weeks later and mating takes place. Female reptiles in the UK generally breed every other year to allow them to build up sufficient energy reserves. Grass snakes are the UK's only egg-laying reptile, eggs are laid in summer in warm piles of decomposing vegetation (or similar) and left to develop and hatch on their own. Young reptiles are born/hatch in late summer/early autumn. Brumation (hibernation) starts again as temperatures fall in the autumn.

The four more commonly occurring species of reptile in the UK (adder (*Vipera berus*), grass snake (*Natrix natrix*) slow worm (*Anguis fragilis*) and common lizard (*Lacerta vivipara*) have different preferences for habitat and diet. Adders generally prey on small mammals in drier habitats, grass snakes primarily hunt amphibians in wetter areas and aquatic habitats, slow worms take small, slow-moving invertebrates and inhabit drier areas and common lizards prey on small, faster-moving invertebrates and tolerate both wet and dry habitats.

### 5.7.3 Legislation

The four common species listed above are protected by the Wildlife and Countryside Act 1981 (as amended) against killing, injury and sale.

Smooth snake (*Coronella austriaca*) and sand lizard (*Lacerta agilis*) are not found in this area, having very specific geographical distribution within Britain, and so will not be referred to in this report despite the higher legislative protection afforded to them.

### 5.7.4 Methodology

#### 5.7.4.1 Habitat assessment

The habitat assessment looked for features which would be attractive to reptiles such as:

- south facing banks;
- varied profile ground form;
- basking areas;
- vegetation cover;
- structurally diverse vegetation;
- potential hibernation sites; and

- evidence of suitable prey sources.

### 5.7.5 Results

#### 5.7.5.1 Desk study

There are records of slow worm and common lizard within 2000m of the development site.

#### 5.7.5.2 Habitat assessment

The site is considered to be generally sub-optimal for reptiles as described in the summary section above.

### 5.7.6 Reptiles – evaluation

Reptiles are protected by UK legislation and therefore they are of **medium** to **high national** ecological importance.

No reptiles were found throughout the course of the survey.

### 5.7.7 Reptiles - impact characterisation

It is anticipated that only small areas of managed grassland will be removed as a result of the extension footprint and the erection of the fence.

### 5.7.8 Reptiles - impact assessment without mitigation

It is considered that in the absence of mitigation there would be a **probable minor short term adverse** impact at a **local (site)** level.

### 5.7.9 Reptiles - mitigation measures

As long as reptile presence is assumed and site clearance is undertaken in accordance with an appropriate method statement, it is considered that a full trapping and translocation exercise is not required, and that habitat manipulation and denial is an appropriate method of ensuring that reptiles are not harmed during the site clearance.

Therefore, the following mitigation will be adopted:

- Clearance will be conducted in accordance with a Method Statement (to ensure that should reptiles be found in the course of site clearance or any other development activity, they will not be harmed and can be adequately cared for;
- Clearance will only be undertaken during the reptile active season (April-October, inclusive) unless it is determined that some areas of the site are not suitable for hibernation, unless the ground is too wet for hibernation or temperatures are consistently above 12 for seven consecutive days;
- Clearance outwith this period is possible, but depends on weather and temperatures being suitable to ensure that reptiles are likely to be active;
- There will be no clearance of hibernation habitat outwith the active season unless temperatures allow;

- Reptiles will be excluded from entering or re-entering the site during clearance/operational phase of works by ensuring that the site is kept as bare ground i.e. clear of any vegetation or other shelter

#### 5.7.10 Reptiles - impact characterisation with mitigation

It is considered that there will be an **unlikely minor short term adverse** impact at a **local (site)** level as a result of the proposed development.

#### 5.7.11 Reptiles - significance of the impact

##### Without mitigation

It is considered that the significance of the impact is **slight**.

##### With mitigation

It is considered that the significance of the impact is **neutral**.

## 5.8 INVERTEBRATES

### 5.8.1 Summary

There are numerous records of invertebrate species within the records data search, due to the disturbance and habitats present on the site, it is considered that there will be a small number of common and widespread invertebrates present.

There are foodplants available for a range of species particularly within the site boundaries.

### 5.8.2 Ecology

Invertebrates are animals without spines or an internal skeleton, relying on their bodies to give them structure. There are over 40000 species of invertebrate in the United Kingdom, distributed across all terrestrial, aquatic and marine ecosystems. Their lifestyles are superficially at least similar; however, each genus has distinguishing characteristics, with each species within each genus having subtle differences resulting in each species occupying its own ecological niche.

Adults lay eggs which then hatch into larvae. The larvae then develop into adults. The processes involved in these three life stages are different from genus to genus and species to species and can be incredibly intricate, with sometimes very specific requirements, any interruption to which can cause any of the life stages can fail.

Adult animals generally have very specific food requirements, favouring single plant species or food source. Larvae and adults can be either plant eating or carnivorous dependent on species. The food source is a good indicator of how widespread a species may be: the more specific a food source, the more prone to range restrictions it may be.

Animals will generally be active during the spring, summer and autumn months and overwinter as eggs or larvae; some adults do go into hibernation over winter.

### 5.8.3 Legislation

No invertebrates are in receipt of international legal protection with the exception of the large blue (*Phengaris arion*) butterfly, protected by the Conservation of Habitats and Species Regulations 2017 (as amended) ; a number of other species are fully and partially protected by the Wildlife and Countryside Act 1981 (as amended). A number of species are listed on Section 42 of Species of Principal Importance to Wales and may, with others, be included within local planning authorities Biodiversity Action Plans (LBAPs).

### 5.8.4 Methodology

#### 5.8.4.1 Habitat assessment

The proposed development site was subject of a walkover to assess its potential to provide suitable habitat for invertebrates. The features looked for included:

- Presence of a mosaic of multiple habitats;
- Presence of structural diversity in the habitats present;
- Presence of bare ground;
- Presence of common and likely food plants;
- Site aspect; and
- Previous and current land use.

### 5.8.5 Constraints

There were no constraints to the walkover.

### 5.8.6 Results

#### 5.8.6.1 Habitat assessment

There is a varied mosaic of habitats on the site. There is abundant invertebrate habitat within the surrounding areas.

There are some food plants present on site for numerous invertebrates including section 7 species.

### 5.8.7 Invertebrates – evaluation

There are food plants on site suitable for a range of invertebrate species. Species present are likely to be common and widespread only due to the sites habitats.

### 5.8.8 Invertebrates - impact characterisation

It is considered that there will only be a small loss of managed grassland as a result of the development, therefore impacts on invertebrates are considered unlikely.

### 5.8.9 Invertebrates - impact assessment without mitigation

It is considered that there will be a ***possible minor short term*** adverse impact.

### 5.8.10 Invertebrates - mitigation measures

N/A

### 5.8.11 Invertebrates - compensation measures

- The creation of new vegetated habitats

### 5.8.12 Invertebrates - impact characterisation with mitigation

It is considered that there will be a ***short term minor adverse impact***.

### 5.8.13 Invertebrates - significance of the impact

#### Without mitigation

It is considered that the significance will be ***slight***.

#### With mitigation

It is considered that the significance of the impact will be ***neutral***.

## 6 CONCLUSION AND RECOMMENDATIONS

Overall the site is of a moderate ecological value at a local level due to the habitats present, and the species that may reside on the site.

Breeding birds should be assumed to be present on the site. Mitigation for these groups is therefore required. All site clearance should be undertaken under ecological supervision.

A method statement will be required for the tying in of the extension. A method statement will be provided for site clearance regarding reptiles.

It is recommended that the mitigation measures, outlined in the various sections above are incorporated as far as is possible into the design process for this development, and construction methodologies.

A wildflower meadow will be planted within the grounds to benefit invertebrates. The wildflower areas will be seeded with Emorsgate EM3 <https://wildseed.co.uk/mixtures/view/4/special-general-purpose-meadow-mixture>.

The wildflower area will be managed as follows:

### Preparation of ground

A seed bed will be created by first removing any weeds via manual cultivation. The bed will be dug to bury any surface vegetation, the area will then be raked and compacted to form a firm surface.

### Sowing

The seeds will be sown either in autumn or spring. The seeds will be sown by hand at a rate of 4g/m<sup>2</sup>. The seed will be sown on the surface and firmed down but not covered.

### Year 1 management

Weeds will not be removed until mid to late summer, in order to provide shelter for seedlings. In late summer (early august), the weeds will be cut, removed and placed in compost piles around the wider site. Perennial weeds such as dock will be dug out by hand. The young meadow will then be strimmed short (50mm) through to the end of March the next year.

### Management once established (years 2-5)

The grass cutting regime would be designed to allow wildflowers to seed the area for the following season. The wildflower strip will be cut twice per year for at least five years using hand tools once in March/April and again no earlier than 15th July in order to mimic hay meadow management. The cut following the 15th July will reduce the height of the meadow to approximately 50mm, arisings will be left in place on site to dry and seed for at least 3 days but no more than 7 before being removed from the area. Re-growth will be strimmed back to 50mm through to late autumn/winter and again in spring if required.

The following sparrow terrace or similar will be integrated into the new extension <https://www.nhbs.com/vivara-pro-woodstone-house-sparrow-nest-box>. The box will be erected on the north western gable at a height of no less than 3m.

The following bat block [https://www.nhbs.com/bat-block?bkfno=246596&ca\\_id=1495&adlocale=uk&gclid=CjwKCAiAnO2MBhApEiwA8q0HYTrlltmUdfXSmZQgvmupqeYj1cFwdN5KLrnJOB2F\\_rfrsEINTpQV1BoCx1EQAvD\\_BwE](https://www.nhbs.com/bat-block?bkfno=246596&ca_id=1495&adlocale=uk&gclid=CjwKCAiAnO2MBhApEiwA8q0HYTrlltmUdfXSmZQgvmupqeYj1cFwdN5KLrnJOB2F_rfrsEINTpQV1BoCx1EQAvD_BwE) or similar will be integrated in to the new extension. The box will be erected on the north western gable at a height of no less than 3m.

There will be no lighting of retained habitats , dark corridors will need to be implemented throughout the development to allow light intolerant species to continue using the site should they wish Any new lighting (internal or external will conform to the following guidelines: <https://theilp.org.uk/publication/guidance-note-8-bats-and-artificial-lighting/> . There will also be dark routes for access to the integrated bat boxes. A plan showing the areas to be kept dark will be included.

## 7 REFERENCES

Bat Conservation Trust. (2023) *Bat Surveys - Good Practice Guidelines*. Bat Conservation Trust, London.

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## APPENDIX A - PHOTOS

### PHASE 1 HABITAT SURVEY PHOTOS

Plate 1- sports pitch requiring perimeter fencing



Plate 2- scrub habitats between playing fields



Plate 3- photograph of breathable membrane



Plate 4- photograph of north western roof void



Plate 5- photograph of south western elevation



Plate 6- photograph of gable end with small gaps beneath barge boards

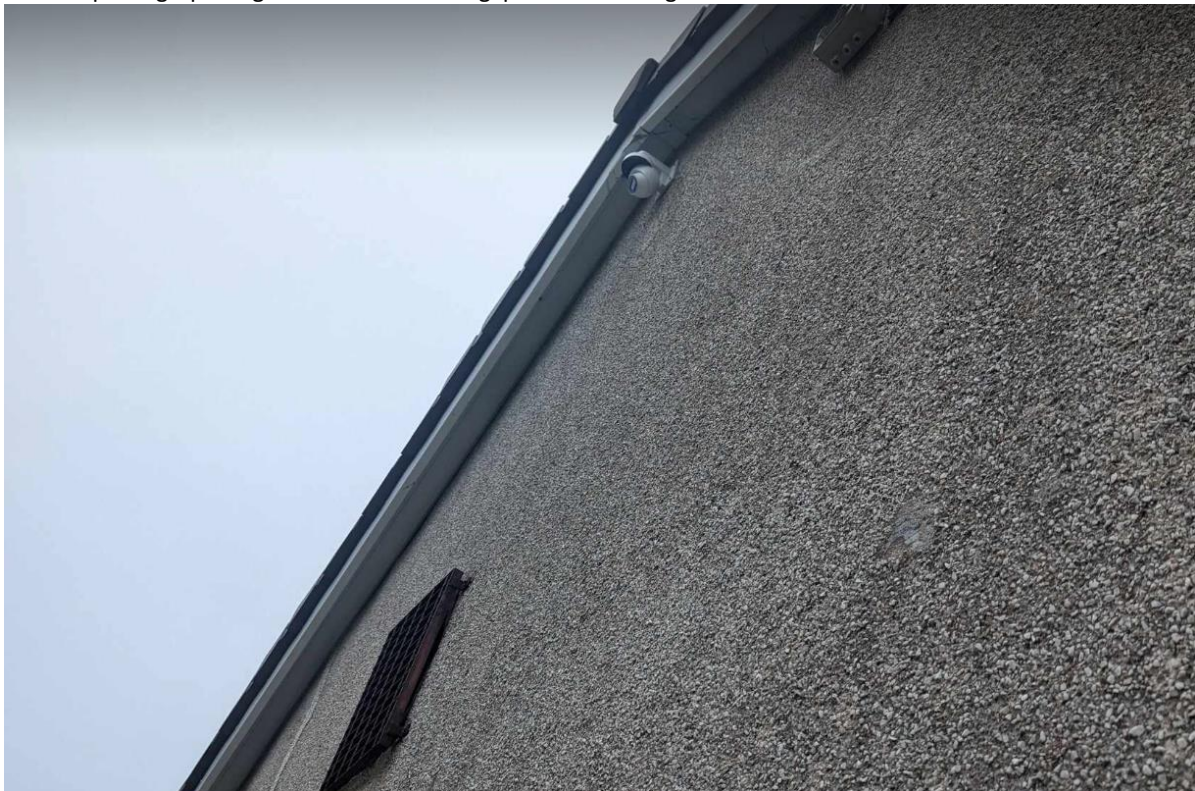


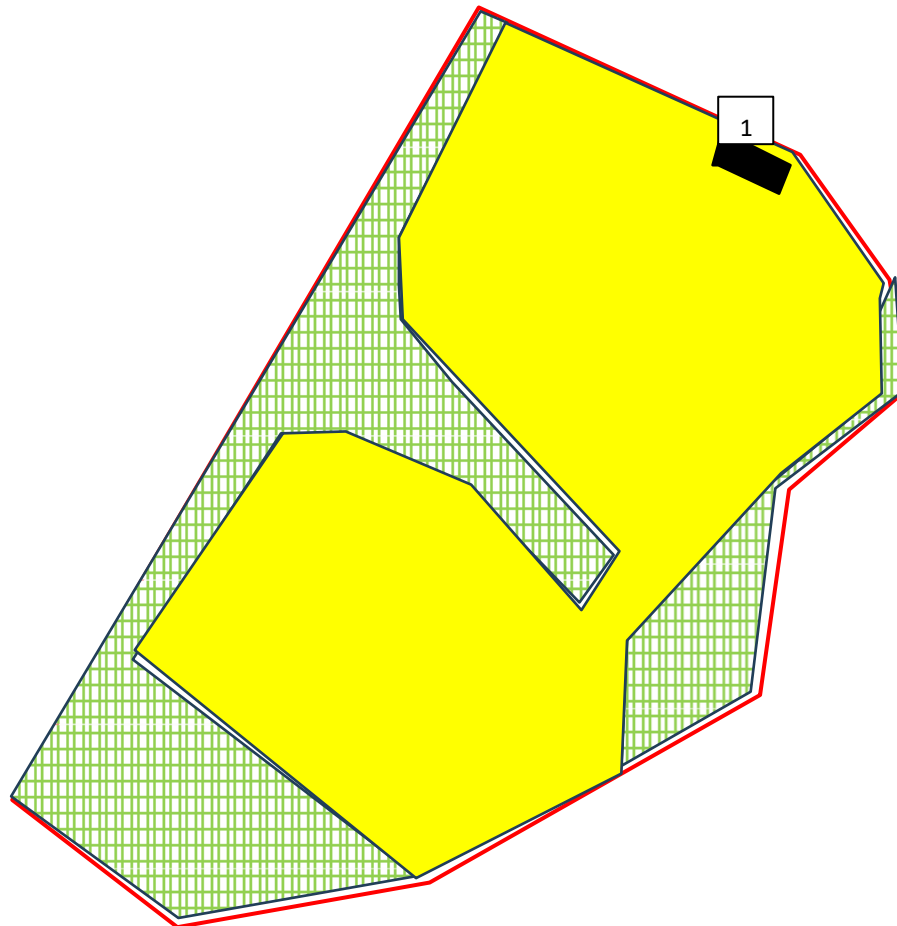
Plate 7- photograph of sealed fascias



Plate 8- rear of building



## APPENDIX C – PHASE 1 MAP



### KEY

1= Target notes (appendix d)

-  Building
-  Amenity grassland
-  Scrub/tall ruderal
-  Red line boundary

## **APPENDIX D– Target Notes**

- 1- Cut vegetation (likely scrub previously)

## **APPENDIX E- BAT METHOD STATEMENT**

1. A suitably licenced and experienced ecologist will be on site/call for the duration of the works.
2. Before any work begins on site, a briefing for contractors and other site-staff 'toolbox talk' will be given by an ecologist. The briefing will cover the issues in respect of protected species they may encounter on site, where they might find them, methods of working, and what they need to know to avoid committing an offence. Every briefing attendee will be provided with a copy of a Method Statement and the contact details of an ecologist and Natural Resources Wales.
3. All suitable bat roosting features will need to be removed by hand (barge boards, tiles) and inspected by the onsite bat ecologist.
4. The features will also need to be removed manually, one at a time, with the bed and underside inspected for bats/sign of bats by the onsite ecologist before moving onto the next.
5. The ecologist will inspect the area for the tying in of the extension to ensure that no bats are present
6. Only when the onsite bat ecologist is happy that there is no further potential for bats, may he/she leave and the works continue with no supervision. A licensed bat ecologist will be on call for the remainder of the works. In the unlikely event that bats are found during a period that the licensed bat ecologist is not present on site, all works must cease and the licenced bat ecologist engaged.
7. If bats or their signs are found, a EPS licence may be required before works can legally resume.

## APPENDIX F- REPTILE METHOD STATEMENT

### Background:

1. It was considered that the site has the potential to support a very small population of slow worm (*Anguis fragilis*), common lizard (*Lacerta vivipara*) and possibly grass snake (*Natrix natrix*). It is less likely that adder (*Vipera berus*) is present but possible. The presence of reptiles should therefore be assumed, hence the need for a Method Statement to ensure that works are carried out in such a way as to avoid harm to reptiles and breeding birds.
2. Once the areas for clearance have been identified, implementation of this method statement will avoid having to undertake a full reptile translocation exercise as animals can be pushed into safe areas using habitat denial and manipulation techniques.

### General comments:

3. Vegetation will be cleared from directly affected areas only e.g. areas that the extension and fence is to be built on.
4. Once cleared, the vegetation will be maintained as close to bare ground as possible by ongoing repeated cutting using brush cutters with knife blades to ensure that there is no potential for reptiles to utilise the site after the initial clearance.
5. Reptile fencing will not be required as long as the bare ground / short vegetation habitat is maintained.
6. The grassland on the site may be cut at any time of year. Any scrub and longer vegetation should only be cut during the autumn and winter months to avoid breeding birds unless otherwise permitted following a check by a suitably experienced ecologist. Should nests be identified as present, the works will not proceed until the young have left the nest of their own accord.

### Method statement:

7. Vegetation will only be cut using brushcutters fitted with knife blades: the use of strimming cord will not be permitted.
8. Vegetation will be cut in three phases. The first phase will reduce the vegetation height to 150mm; the second will reduce it to ~75mm; the third phase will reduce the height to as close to ground level as possible.
9. There will be a time delay of 24 hours between the first and second cuts.
10. Vegetation to be cut will be inspected for the presence of reptiles immediately prior to every phase of cutting unless the supervising ecologist states otherwise.
11. The orientation of cutting will be designed to push animals into unaffected and retained land
12. All arisings will be raked off and removed from site for disposal.
13. After clearance, should the vegetation be allowed to regrow above 150mm high, it will be cut again as described in this method statement.
14. Clearance may only take place during the reptile active season unless temperatures allow an extension or there is no potential for hibernating reptiles.

15. Potential hibernacula will only be cleared while daytime temperatures are consistently over 12°C for a period of at least seven days prior as otherwise reptiles may be killed or injured as a result of inconsistent (low) temperatures (during the day and night) and/or low prey availability. Potential hibernacula will only be dismantled by hand unless the supervising ecologist gives the approval for machine dismantling.

16. If reptiles are observed within the clearance area during the works, a decision on how to deal with them will be made on site in light of the conditions on site at the time and the state of the animals themselves. There are three options for dealing with them:

- It may be possible to leave the animals alone to find their own way into cover, depending on where they are seen, what they are doing and their apparent activity levels; or
- Capture, remove from site and take into temporary captivity until such time as they can be released adjacent to the cleared area (a vivarium has been prepared in case it is required); or
- Should conditions allow, capture and translocate the animals to a safe area immediately adjacent to the site.

18. Habitat (e.g. hibernation sites for other species especially amphibians) can be identified and avoided by following this method statement.

19. All vegetation and site clearance will be supervised by a suitably experienced ecologist.