HAFOD HOUSING ASSOCIATION

COWBRIDGE SCHOOL, ABERTHIN ROAD, VALE OF GLAMORGAN

EXTENDED PHASE 1 AND BAT SURVEY REPORT

DECEMBER 2018





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EXTENDED PHASE 1 AND BAT SURVEY REPORT

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1	-	Draft for Review	6 November 2018	Dr Danielle Fry (Senior Ecologist)	Dr Matthew Watts (Director)	M. Datt
2	Bat mitigation drawing updated; previous site report (2017) appended	For Submission	14 December 2018		Dr Matthew Watts (Director)	M. Dall



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SUMMARY

Soltys Brewster Ecology were commissioned by LRM Planning on behalf of Hafod Housing Association to undertake

an ecological appraisal of an old school building and surrounding parcel of land. The site has been proposed for

residential development (up to 48no. Units) and would result in the demolition of the existing buildings and the loss of

the majority of surrounding habitat. In order to inform a planning submission, desk study and Extended Phase 1

Habitat Survey was initially undertaken in August 2018.

The combination of desk study and field surveys undertaken at the site identified a limited range of habitat types

dominated by scrub vegetation, the school buildings and bare ground. There is also a limited amount of species poor

semi-improved grassland and some mature trees. The grassland and scrub habitat were generally considered of some

ecological value in a local context and the scrub habitat in particular is likely to function as a shelter, foraging and

commuting resource for a variety of mammal, bird and invertebrate species. The majority of mature trees will be

retained as part of the proposal.

The site supports a good population of slow worm and a low population of grass snake as determined by survey work

completed by others¹ in 2017. A detailed Reptile Mitigation Strategy will need to be developed in consultation with

the LPA prior to site clearance/construction although the principles of the mitigation have already been discussed and

are set out in the current report.

The Main School Building was identified as a bat roost during the current survey. The available evidence suggesting

day roosting by small numbers of Common Pipistrelle, Soprano Pipistrelle Pipistrellus pipistrellus/P. pygmaeus, Myotis,

Lesser horseshoe Rhinolophus hipposideros and Brown-long-eared Plecotus auritus bats. Demolition of this building

would therefore require a licence from NRW. Such licences can only be applied for following receipt of planning

approval and the licence application is supported by a Method Statement setting out the timing of works and

mitigation measures to ensure bats are not adversely affected.

Further survey is recommended to gain more information in relation to the potential for bats to hibernate in the Main

School Building to inform the mitigation strategy and licence application. The principles of the mitigation strategy,

including provision of a purpose-built replacement roost are described in the current report.

Other considerations for development would include avoidance of the bird nesting season for vegetation clearance

and measures to prevent further nesting on the Main School Building.

¹ David Clements Ecology **Hafod Housing Association**

1.0. INTRODUCTION

1.1 Soltys Brewster Ecology were commissioned by LRM Planning on behalf of Hafod Housing Association to

undertake an ecological appraisal of an old school building and surrounding parcel of land. The site has been

proposed for small-scale residential development (47no. Units) and would result in the demolition of the

existing buildings and the loss of the majority of surrounding habitat.

1.2 The site is located at the north-eastern outskirts of the town of Cowbridge (Grid Reference: ST 00046

74591) and lies directly to the south-west of the A48 and to the north-east of the A422 Aberthin Road (see

existing & proposed layout plan in Appendix I). A small watercourse defines the north-western boundary

with residential properties beyond, the A422 runs along the south-eastern boundary with some broadleaved

woodland and agricultural fields beyond. More residential properties lie to the south and to the north lie the

new comprehensive school grounds, a small area of rough grassland more agricultural fields beyond.

1.3 This report describes the findings of a desk study and Extended Phase 1 Habitat Survey undertaken in August

2018, with targeted bat survey work (emergence survey & automated monitoring) also undertaken.

Previous surveys undertaken by David Clements Ecology Ltd. (DCE) in 2017 included bat and reptiles

surveys (a copy of this report is included as Appendix II). The current report builds on the DCE findings with

up to date bat surveys and a preliminary method statement for reptiles to inform a planning application.

2.0 METHODOLOGY

2.1. In order to establish the baseline ecological conditions on site and immediately adjoining habitats a

combination of desk-based consultation and ecological site survey were undertaken in August 2018. Specific

surveys for bats were then also subsequently undertaken in August & September.

Desk study

2.2. This element of the work primarily involved consultation with the South East Wales Biodiversity Record

Centre (SEWBReC) to identify any records of rare, protected or notable flora and fauna within the proposed

development site boundary and surrounding 1 km area. The search criteria also included information relating

to the location and citation details (where available) for any sites designated for their nature conservation

interest such as Sites of Special Scientific Interest (SSSIs) or locally designated Sites of Importance for Nature

Conservation (SINC).

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2.3. A previous ecological report written by DCE (2017) was also used to inform the survey work and this

report. Discussion with the Local Authority Ecologist also provided some additional information.

Extended Phase 1 Survey

2.4 The fieldwork was undertaken on 15th August 2018 by a suitably experienced ecologist² and followed

standard Phase 1 Habitat Survey protocol (JNCC, 1990) as amended by the Institute of Environmental

Assessment (1995). All habitats within the site were classified and mapped as accurately as possible. Habitats

considered to have potential to support rare, protected or otherwise notable species of flora and fauna were

noted, as were any direct signs of these species (e.g. Eurasian Badger Meles meles setts and dung-pits).

Incidental observations of birds on or flying over the site were also recorded along with any evidence of

invasive, non-native plant species (such as Japanese Knotweed Fallopia japonica or Himalayan Balsam Impatiens

glandulifera).

2.5 A map of habitats was drawn up and target notes were used to identify features of ecological interest

(Appendix III). Where possible, habitats were cross-referenced to any relevant priority habitats listed under

Section 7 of the Environment (Wales) Act 2016.

Bat Survey - Daytime inspection

2.6 An external inspection was undertaken of both buildings on the 15th August 2018 and then a subsequent visit

was undertaken to inspect the interior of the Main School Building on the 1st October 2018. The surveyors

searched for roost evidence (droppings, staining, scratch marks, etc.) as described above and an assessment

of the buildings potential to support nesting birds was also undertaken (findings shown in Appendix IV). The

scope of the bat inspection survey, including timing and survey effort was based on guidelines published by

the Bat Conservation Trust (2016) and aimed to establish the potential of the structures to support roosting

bats based on the following descriptions:

Known or confirmed roost

• High - A structure with one or more potential roost sites that are obviously suitable for use by larger

numbers of bats on a more regular basis and potentially for longer periods of time due to their size,

shelter, protection, conditions and surrounding habitat.

Moderate – A structure with one or more potential roost sites that could be used by bats due to

their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of

high conservation status.

 2 BSc Zoology, PhD, NRW bat licence no: SO85043/1

• Low - A structure with one or more potential roost sites that could be used by individual bats

opportunistically. However, these potential roost sites do not provide enough space, shelter,

protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis

or by larger numbers of bats.

• **Negligible** – Negligible habitat features on site likely to be used by roosting bats.

Bat Survey - Activity Survey

2.7 A single dusk emergence survey was undertaken on 15th August 2018. Four surveyors were positioned

around the main building and a single surveyor was located inside as illustrated in Appendix V.

2.8 The survey commenced 15 minutes prior to sunset and extended for 90-120 minutes after sunset. Weather

conditions were suitable and although there was a light shower at the start of the survey period it was brief,

lasting no more than 10minutes. The shower was not thought to be a particular constraint and recorded air

temperatures were 19 °C at the start and dropped to 17 °C by the end of the survey period.

2.9 Broadband ultrasonic detectors (Peterson D240x and Bat Box Duet) and appropriate recording equipment

were used to allow both in field and office based sonogram analysis of bat calls.

2.10 Automated bat detectors (Anabat Express units) were deployed at 2no. locations within the Main School

Building (refer to Appendix V for locations). The automated detectors were left in situ for five consecutive

nights from 26th September to 1st October 2018.

Survey constraints

2.11 At the time of the initial site visit the scrub on site was so extensive as to make some areas of the site

inaccessible. It was not possible to view the ditch at the rear of the site. The broad –leaved trees that line the

ditch were not assessed for their potential to support roosting bats as it was not possible to get close enough

to enable a thorough assessment.

2.12 The demountable building was not accessible and no internal inspection was carried out of this building. The

main building is in very poor repair and not all loft spaces were safe to enter during the inspection.

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3.0 RESULTS

Desk Study

3.1 The former school site is not covered by any form of nature conservation designation and is not located in

close proximity to any such site so as to be of ecological relevance. The closest designated site lies

approximately 700m to the north of the proposed development - Cors Aberthin SSSI designated primarily

for marshy grassland. There are no obvious ecological links between this site and the proposed development

site and it is considered that the proposal will have no effect on this designated site.

3.2 No SEWBReC records of protected or notable species were directly associated with the site although the

immediate surrounding area included a variety of bird (e.g. House Sparrow Passer domesticus, Starling Sturnus

vulgaris, Dunnock Prunella modularis), small mammal (e.g. Hedgehog Erinaceus europeaus) and botanical (e.g.

Bluebell Hyacinthoides non-scripta) records. All these species were considered of some ecological relevance to

the site based on the habitat features present (i.e. trees and scrub). Relevant species specific records are

discussed in more detail below.

Extended Phase 1 Habitat Survey

3.3 The distribution and extent of habitats within the site is illustrated in Appendix III. The site is primarily

comprised of the large redundant school buildings. The Main School Building is a large complex stone built

structure estimated to be of Victorian construction. It is one to two storeys and there is a small basement on

the north-west side of the building. To the north of the main building is a Demountable Building. They are

believed to have been unoccupied for approximately ten years. These buildings are set in a small plot which is

dominated by scrub and hardstanding. There is a small area of broad-leaved trees in the northern corner of

the site. A small ditch is present at the north-western boundary of the site.

Hardstanding

3.4 In addition to the access paths around the building there are two main areas of hardstanding, in the north

(Plate 1) and west of the site. These areas have been encroached by scrub consisting predominantly of

Buddleia (Buddleja davidii) and Bramble (Rubus fruticosus) but Travellers joy (Clematis vitalba), Ivy (hedera helix),

Fleabane (Pulicaria dysenterica) and grasses such as Creeping bent (Agrostis stolonifera) are also present.

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Plate 1 Northern end of the site where it meets the A48 flyover. Buddleia and bramble scrub encroaching on the hardstanding.



Scrub

3.5 As described above the scrub consist mainly of Buddleia and a few other introduced garden plants that would have been planted on the site (e.g. *Viburum sp.*) together with native species of Bramble, Travellers joy and Ivy. In places, such as across the hardstanding areas described above it is scattered but elsewhere it has become very dense and continuous and has made access across the site difficult (Plate 2). The density of the scrub also meant that the ditch was not visible to assess during the survey (Plate 3).

Plate 2 Continuous scrub



Plate 3 Area where ditch was thought to be located



Semi-improved grassland - species poor

3.6 There are some small patches of grassland amongst the scrub indicative of the lack of management over the

last few years False oat grass (Arrhenatherum elatius) and Cock's foot (Dactylis glomerata) with the occasional

ant hill present.

Trees

3.7 There are some mature trees around the periphery of the site and some small self-seeded Ash (Fraxinus

excelsior) saplings across the site. The mature trees include some Lime (Tilia europaea) specimens in the

northern corner of the site (Plate 4) interspersed with a Holly (Ilex sp.), Hawthorn (Crataegus monogyna) and

Ash. There is a mature Yew (Taxus baccata) and two Cypress trees at the southern end of the site. Full

descriptions of all the trees on site are available in the tree report produced by Treescene (2018).

Buildings

3.8 The buildings were previously surveyed by DCE (2017) and the structures have not changed considerably

since that survey was undertaken. Please refer to the DCE (2017) report (Appendix II) for a full description of

the buildings. Summaries are given below in the bat section.



Plate 4 - Lime tree at the northern most corner of the site



Fauna

- 3.9 In the course of the extended Phase 1 Habitat Survey, a search of field signs for protected or notable species was undertaken and the potential of the habitats to support these species considered. In the context of this report notable species were those considered to meet any of the following criteria:
 - Species protected by British or international law;
 - Species listed under Section 7 of the Environment (Wales) Act or local Biodiversity Action Plan species;
 - Nationally rare or nationally scarce species;
 - Species of Conservation Concern (e.g. JNCC Red List, RSPB/BTO Red or Amber Lists).

Birds

- 3.10 The surveyed area was considered likely to support a number of scrub/woodland species typically associated with urban edge areas. Several such species including Great Tit *Parus major*, Dunnock *Prunella modularis*, and Blackbird *Turdus merula* were noted during the survey on 15th August. In 2017 (DCE) a nest was observed in a sapling to the south of the demountable building.
- 3.11 A jackdaw was recorded nesting in a chimney in 2017 and during the current survey, lots of nesting material was noted internally appearing out of the flue into the fireplaces themselves. This indicated that the chimneys have been used consistently for nesting for a number of years.

3.12 The species present at the time of the survey are not representative of the full spectrum of species that the site

could potentially support (e.g. during spring/autumn passage) but the assemblage recorded was considered

largely representative of that likely to breed on and in the vicinity of site. This assemblage was dominated by

common and widespread species although Dunnock appears on the Amber List of Birds of Conservation

Concern in the UK (Hayhow et al., 2017) although is a Green List species in Wales (Johnstone et al., 2012).

Dunnock is also listed under Section 7 of the Environment Act (Wales) as a Priority Species.

Badger

3.13 No evidence of use of the site by Badger was found during the current survey and no further consideration of

this species would be considered necessary as part of the current assessment.

Bats

3.14 The desk study records provided by SEWBReC identified that foraging bats had been recorded approximately

380m from the site. Species identified included Serotine Eptesicus serotinus, Daubenton's Myotis daubentonii,

Noctule Nyctalus noctula, Common pipistrelle Pipistrellus pipistrellus and Brown long-eared Plecotus auritus. A

roost of an unknown species was recorded within a house approximately 500m from the site and there are a

further seven recorded roosts within the 2km radius around the site, five of these are Lesser horseshoe

Rhinolophus hipposideros roosts. The site does not fall within 10km of any statutory sites which are designated

primarily for the conservation of bats.

3.15 In 2017 DCE carried out bat surveys of the site and details of the survey can be found in their report (see

Appendix II). The survey identified use of the Main School Building by a small number of Lesser horseshoe

and Common pipistrelle bats. The survey findings were considered to represent a summer-time day roost

(DCE 2017).

3.16 Discussion with the Vale of Glamorgan Ecologist also confirmed that there is a Lesser horseshoe hibernation

roost under the A48 fly over immediately adjacent to the site (personal communication). However, whilst it is

possible that bats from the school buildings would utilise the fly-over for hibernation, the physical separation of

the viaduct from the application site (e.g. see Plate 1) and the absence of new build in the northern part of the

site is such that the fly-over was not considered of particular ecological relevance to the application.

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Building inspection

3.17 The demountable (Plate 5) is a simple L-shaped building with a flat bitumen-felt roof which is folded at the edges. The building stands on a brick base, is clad with painted wooden boards and has painted wooden soffits. The windows are boarded up although there are gaps above the boards at the tops of the windows, the glass of which has been smashed. Stone steps lead up to the door which is also boarded. Climbing vegetation covers corners of the building. There are visible gaps in the boarding at the eaves and under the roofing felt, gaps above and below the boards which have become warped.

Plate 5 - The Demountable Building, mature lime trees beyond



3.18 The Main Building is complex with several pitched parapet roofs which are slate tiled with ridge vents present. There are also several chimneys and covered roof vents situated centrally on the ridges. The rear of the building has an adjoined building which has a flat membranous roof. The southern part of the building has a second storey. There are numerous features that provide access for bats to the interior such as slipped and broken tiles, lifted flashing around vents and roof ridges, missing mortar and broken vents etc. The windows are mostly covered with metal mesh however some of the covered windows have previously been smashed and the mesh has lifted in some places. There are louvered vents above arched windows which are covered with mesh but again it is lifted in places offering access for bats. There are ceramic vents below internal floor level present at the rear of the building where bats maybe able to access the foundations of the structure.



3.19 Internally the building offers a range of loft spaces of various size, shape and levels of disrepair (e.g. Plate 6). Whilst lots of the roof structures show daylight either through lots of small gaps from slipped tiles, there are large holes in some. There are however some darker spaces offering suitable roosting opportunities. They all appeared to be simple timber framed with the roof slates directly on top with no insulation.

Plate 6 - Accessible loft space



- 3.20 DCE (2017) identified Lesser horseshoe droppings during the internal inspection. These were still present during the current inspection with several hundred observed in the cupboard with access to a loft space and the adjoining cupboard with shelves present (Plate 7). Droppings consistent with Brown Long-eared bat were also observed on the first floor (Appendix IV). A single Lesser horseshoe bat was seen during the internal building inspection. See Appendix IV for location.
- 3.21 The basement room offers hibernation potential. From this room bats would be able to access the void under the floor of the ground floor. There are access panels missing in several of the rooms and holes that have been made in the floor through vandalism and other surveys that could allow bats into this void which appears to range from 0.5 1 metre deep in the visible places. Vents were noted on the external building inspection which could also provide access to this underground void.



Plate 7 - Identified bat droppings



Activity and Automated Surveys

- 3.22 The dusk activity survey identified small numbers of both Common Pipistrelle and Myotis bats exiting the Main School Building (see Appendix IV for locations). This is consistent with the activity surveys undertaken by DCE (2017). The surveyor located inside the building observed at least two individual Lesser horseshoe bats and a single Brown long-eared bat within the building. They appeared early indicating they are roosting in the building during the day. They were observed flying all around the internal space including down to the ground floor.
- 3.23 The automated surveys returned brief passes of Lesser Horseshoe on three of the five nights in the furthest room on the ground floor (detector A). The other detector (detector B) also recorded Lesser Horseshoe consistently (4/5 nights). In addition, the detector at this location also recorded passes by Brown Long-eared bat, Common and Soprano pipistrelle and Noctule bat. Noctule bats have very loud calls and it is possible that the detector was picking up Noctule calls from outside the building.

Reptiles

3.25 The SEWBReC search returned records of slow worm, common lizard and grass snake within 1km of the site.

The nearest record was for slow worm at 50m to the south-west.

3.26 In 2017 DCE carried out a reptile survey of the site and details of the survey can be found in their report

(DCE 2017). The survey identified a good population (max. count of 5 individual adults) as defined by

Froglife, (1999) and a low population of Grass snake (max. count of 2 individual adults).

National Planning Policy

4.1. In terms of planning policy, a number of over-arching policies are of relevance not least of which are those

described within Planning Policy Wales (PPW, 2018), which sets out land use planning policies of the Welsh

Assembly Government with Chapter 6 dealing with Distinctive and Natural Places, including Biodiversity and

Ecological Networks. The advice contained within PPW is supplemented for some subjects by Technical

Advice Notes (TAN's), with TAN 5 addressing Nature Conservation.

4.2. TAN 5 identifies a number of key principles, which the Town and Country Planning system in Wales should

incorporate those relevant are detailed below:

• integrate nature conservation into all planning decisions looking for development to deliver social,

economic and environmental objectives together over time;

• ensure that the UK's international obligations for site, species and habitat protection are fully met in

all planning decisions;

• look for development to provide a net benefit for biodiversity conservation with no significant loss of

habitats or populations of species, locally or nationally.

Environment (Wales)Act, 2016

4.3. Part 1 of the Environment Act Wales' came into force in May 2016 and sets out the approach to planning and

managing natural resources at a national and local level with a general purpose linked to statutory 'principles

of sustainable management of natural resources' defined within the Act.

Section 6 - Biodiversity and resilience of ecosystems duty

4.4. Section 6 of the Act places a duty on public authorities to 'seek to maintain and enhance biodiversity' so far as

it is consistent with the proper exercise of those functions. In so doing, public authorities must also seek to

'promote the resilience of ecosystems'.

Local Policy Context - Vale of Glamorgan Local Development Plan

4.5 The Local Development Plan (LDP) was formally adopted on 28th June 2017 and will be used for decision-

making during the Plan period (2011-2026) to 'ensure the most efficient use of land and other limited

resources, whilst at the same time promoting the regeneration and stimulation of the local economy for the

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benefit of the present and future population'. Policies within the LDP relating to biodiversity which are

considered of relevance to the proposed development at Aberthin Road include:

Policy MD 9 - Promoting Biodiversity

New development proposals will be required to conserve and where appropriate enhance

biodiversity interests unless it can be demonstrated that:

1. The need for the development clearly outweighs the biodiversity value of the site; and

2. The impacts of the development can be satisfactorily mitigated and acceptably managed

through appropriate future management regimes.

Policy MG20 – Nationally Protected Sites and Species

"... Development proposals likely to affect protected species will only be permitted where it is demonstrated that:

1. The population range and distribution of the species will not be adversely impacted;

2. There is no suitable alternative to the proposed development;

3. The benefits of the development clearly outweigh the adverse impacts on the protected

species; and

4. Appropriate avoidance, mitigation and compensation measures are provided...'

Supplementary Planning Guidance Biodiversity & Development (2018)

4.6 The SPG provides further detail and guidance on the implementation of LDP policy in order to assist those

involved in the development process in meeting statutory and policy requirements in relation to development

proposals that may adversely impact upon biodiversity within the Vale of Glamorgan. Specifically, the SPG

aims to:

• Ensure that the key principles of national planning guidance on biodiversity and nature conservation are

fully met at the local level and specifically that local planning decisions ensure that new developments maintain,

enhance, restore or increase biodiversity in the Vale of Glamorgan;

• Ensure that best practice is followed in a consistent and open manner;

• Provide clarity to developers, statutory consultees, local residents and other stakeholders and interested

parties involved with ecology / biodiversity and the planning and development process;

· Minimise delays and cost to developers by ensuring that nature conservation is incorporated into the

planning process at the earliest 1 | Page stages so that impacts are predictable and only relevant development

proposals are affected; and

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• Ensure that any adverse impacts of developments undertaken today will not only protect biodiversity

today, but will still be delivering environmental benefits in the future. Mitigation shall ensure that the

developments are future-proof.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 The combination of desk study and field surveys undertaken at the site identified a limited range of habitat

types dominated by scrub vegetation, the school buildings and bare ground. There is also a limited amount of

species poor semi-improved grassland and some mature trees. The grassland and scrub habitat were

generally considered of some ecological value in a local context and the scrub habitat in particular is likely to

function as a shelter, foraging and commuting resource for a variety of mammal, bird and invertebrate

species. The site has been shown to support a good population of slow worm and a low population of grass

snake. The majority of mature trees will be retained as part of the proposal (Appendix I)

Bats

5.4

5.2 The Main School Building was identified as a bat roost. The available evidence suggesting day roosting by small

numbers of Common pipistrelles, Soprano pipistrelles, Myotis, Lesser horseshoe and Brown-long-eared bats.

Demolition of this building would therefore require a licence from NRW. Such licences can only be applied

for following receipt of planning approval and the licence application is supported by a Method Statement

setting out the timing of works and mitigation measures to ensure bats are not adversely affected.

5.3 Due to the timing of the DCE survey (see Appendix II) and the additional survey work carried out and

reported in the current report, it is considered that use of the site as a maternity roost for one or more of

the bat species cannot be ruled out at this time. There is also potential for the site (basement in particular) to

be used for hibernation purposes.

It is recommended that additional survey work is carried out over the winter period to determine if the

building is used during this time of year3. Further information will help inform the method statement and

proposed mitigation.

5.5 The following mitigation measures are considered appropriate to the demolition of the building and are based

on a precautionary approach (i.e. a 'worst case' scenario that the building is used as a maternity roost and

hibernation site by one or more species) and the current available information:

³ This work is underway as of w/c 03 December

Provision of alternative roosting opportunities prior to and during demolition – purpose built "bat

house" (Appendix VI). The bat house will include suitable features for use by the typical crevice dwellers

(e.g. Pipistrelle, Myotis) identified at the site as well as internal space for the species that require internal

flight space (Lesser Horseshoe & Brown long-eared). The bat house will be constructed prior to

commencement of demolition under ecological supervision. This would ensure no net loss of roosting

habitat locally in the short term;

• At the start of the works a tool box talk will be given to the contractors to make them aware of the

potential presence of bats, what bats look like and what measures will be put in place to limit any impacts

to bats;

• Start of demolition works to be programmed from spring (March/April) or autumn

(October/November) so as to avoid the period of the year when bats are most susceptible to

disturbance particularly avoiding the hibernation period. Any bats encountered will be moved to

replacement roost (bat house) by a licensed ecologist;

• All fascia, soffits ridge tiles and slates on the building will be removed using hand-tools (e.g. crowbar)

prior to demolition of the main fabric of the building;

Birds

5.6 The trees and scrub are likely to support a number of nesting bird species during the breeding season, which

is typically considered to extend from March - August inclusive. In order to avoid or minimise any potential

conflict with nesting birds, vegetation clearance should be undertaken outside this period (i.e. undertaken

between September and February). In the event that avoidance of the nesting season is not possible, a prior

inspection by an ecologist would be required prior to any vegetation removal/building demolition to ensure

that no active nests were present. If an active nest was found, it would be retained in situ along with an

appropriate buffer until any young had fledged.

5.7 Jackdaws were observed to be nesting within the chimneys of the Main School Building. These should be

capped during the winter (September to February) period to prevent new nesting prior to demolition.

Reptiles

5.8 Mitigation for reptiles should concentrate primarily on minimising the potential for causing the death and

injury of individuals during site clearance and building operations; this is a statutory requirement. The site is

constrained by virtue of its size and location and in this instance it is considered that the site will need to be

cleared of reptiles by means of a 'fence trap and clear' (translocation) operation.

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Cowbridge School, Aberthin Road Extended Phase 1 & Bat Survey Report

- A full method statement with respect to reptiles will be required and instruction has been received for this to be compiled. This will need to be prepared in consultation with the Local Planning Authority. Initial discussion with the LPA Ecologist has indicated that there is agreement with the general approach to translocate animals off-site and that council owned receptor sites such as Porthkerry Country Park and Cosmeston Lakes Country Park are available to receive relocated individuals (Appendix VII). There will be a cost attached to any individuals that are accommodated on these sites (Appendix VII). Alternative sites may be available closer to the proposed development or "donor" site. Aerials show areas of potentially suitable habitat in the vicinity of the donor site (Appendix VII) and these could be explored further during the development of the detailed method statement. For the purposes of informing the current submission, the 'deliverability' of the mitigation strategy has been demonstrated i.e. receptor sites are available which could be utilised (subject to payment of the management fee set out in Appendix VII).
- 5.10 Clearance operations for reptiles are seasonally constrained and cannot be carried out during the hibernation period which extends from November to February inclusive. Work outside of this period considerably reduces the probability of vulnerable torpid and/or immobile hibernating individuals being encountered and potentially harmed. In order to prepare the site the above ground clearance of vegetation was carried out at the end of September 2018 following the recommendations of the DCE (2017) report. Clearance was undertaken using hand tools to a height of 300mm above ground.

4

REFERENCES

- Bat Conservation Trust (2016) Bat Surveys for Professional Ecologists Good Practice Guidelines. Bat Conservation Trust, London.
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- Institute for Environmental Assessment (1995) Guidelines for Baseline Ecological Assessment. E & FN Spon, Hong Kong.
- Johnstone IG, Thorpe RI, Taylor R & Lamacraft D. (2012) The State of Birds in Wales. . RSPB Cymru, Cardiff.
- Joint Nature Conservation Committee (JNCC) (1990) Handbook for Phase I Habitat Survey. A technique for environmental audit. JNCC, Peterborough.
- Treescene Arboricultural Consultants (2018) *Tree Survey at the Former Cowbridge Comprehensive School Cowbridge*.

 Treescene Limited. The Walled Garden, Old Coedarhydyglyn, St. Nicholas, Cardiff CF5 6SG



APPENDIX I EXISTING SITE PLAN & PROPOSED LAYOUT



A Scale bar added



Site Area = $5170m^2$ 0.517ha



22 Cathedral Road Cardiff CF11 9LJ

t: 029 2030 9010 info@pentan.co.uk

Project

Aberthin Road, Cowbridge

Client

Hafod Housing

Drawing Title

Site Location Plan

Date

Nov '18

Scale

1:1250@A4

Drawing No.

3703 / PA / 001

Rev.

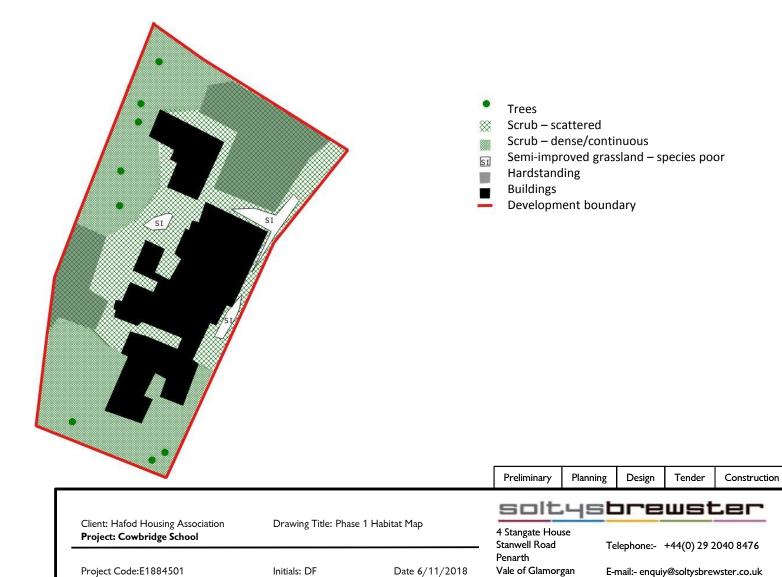
Α



APPENDIX II SITE SURVEY REPORT (DCE, 2017)



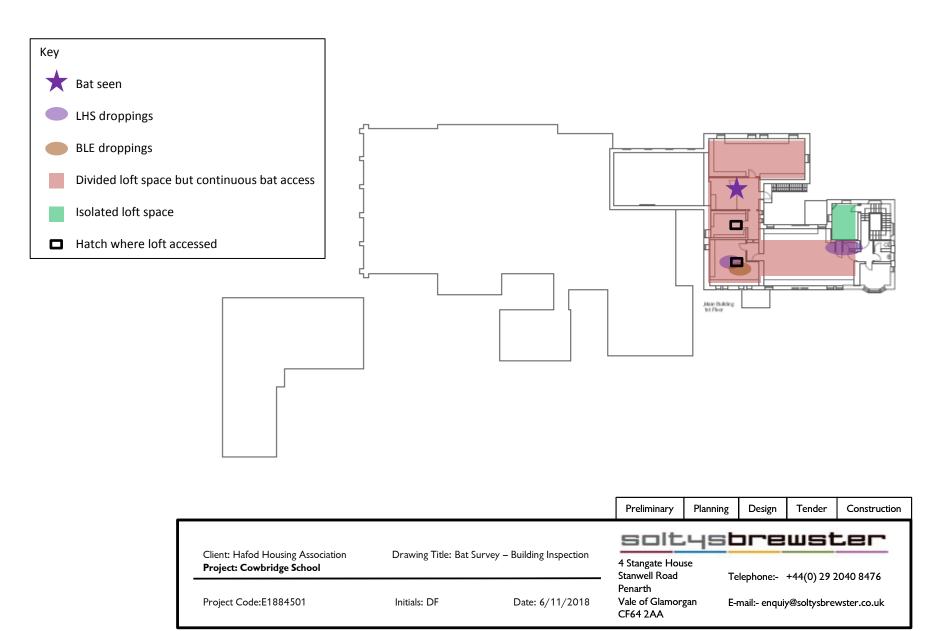
APPENDIX III PHASE 1 HABITAT MAP



CF64 2AA

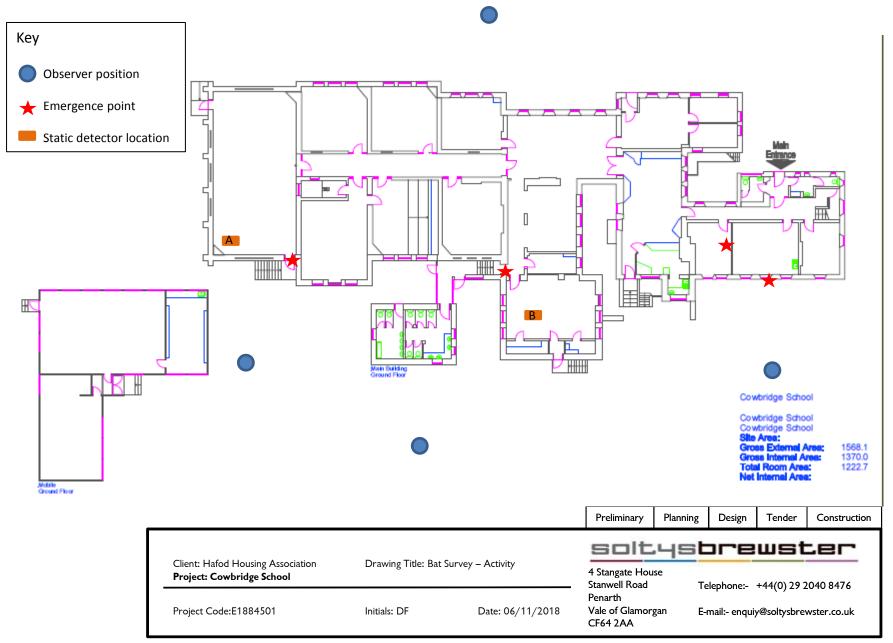


APPENDIX IV BAT SURVEY - BUILDING INSPECTION RESULTS





APPENDIX V BAT SURVEY - ACTIVITY SURVEY





APPENDIX VI PROPOSED BAT HOUSE

Revisions A SCALE BAR ADDED 14 DEC '18 Pitched slate roof lined with bitumastic felt timber battens 20-30mm gap between fascia &Lockable entrance door wall to permit bat access Elevation A Elevation B Elevation C 3no. ridge access tiles Elevation D Elevation E С Cool room with earth floor Brick or blockwork walls - no render to external or internal surfaces 20-30mm gap between fascia & wall to permit bat access \bigcirc D - Bat access 500 x 500mm opening with horizontal metal grille Open hatch 10000 Elevation F E Floor Plan pentan Project Date Aberthin Road Nov '18 architects Scale Client 1:100 @ A3 **Hafod Housing** 22 Cathedral Road Drawing Title Drawing No. Cardiff CF11 9LJ 3703 / PA / 020 **Proposed Bat Roost** Rev. t: 029 2030 9010 Α info@pentan.co.uk NOTES. Do not scale. All dimensions are in millimetres unless stated otherwise



APPENDIX VII REPTILE RECEPTOR SITES



Planning Preliminary Design Tender Construction soltysbrewster Client: Hafod Housing Association Drawing Title: Reptiles – LPA Suggested Receptor Sites 4 Stangate House **Project: Cowbridge School** Stanwell Road Telephone:- +44(0) 29 2040 8476 Penarth Project Code:E1884501 Date: 06/11/2018 Vale of Glamorgan Initials: DF E-mail:- enquiy@soltysbrewster.co.uk CF64 2AA

Costing information received from LPA

The highlighted category is the one the reptile population at this site falls into

Appendix F.

Reptile translocation to Countryside sites.

Description	Current 2017 18	Proposed 2018 / 19			
Translocation of reptiles.	N/A	£10,000.00. Countryside team to maintain habitat and monitor population for a 10 year period.			
Surveyed population <5.		Developer to carry out all site preparation works and all reptile translocation.			
Estimated population <50.					
Translocation of reptiles.	N/A	£15,000.00. Countryside team to maintain habitat and monitor population for a 10 year period.			
Surveyed population 5 - 10.		Developer to carry out all site preparation works and all reptile translocation.			
Estimated population 50 - 100.					
Translocation of reptiles.	N/A	£20,000.00. Countryside team to maintain habitat and monitor population for a 10 year period.			
Surveyed population 10 - 20.		Developer to carry out all site preparation works and all reptile translocation.			
Estimated population 101 - 500					
Translocation of reptiles.	N/A	£30,000.00. Countryside team to maintain habitat and monitor population for a 10 year period.			
Surveyed population > 20		Developer to carry out all site preparation works and all reptile translocation.			
Estimated population >501					



Planning Preliminary Design Tender Construction soltysbrewster Client: Hafod Housing Association Drawing Title: Reptiles – Potential Alternative Receptor Sites 4 Stangate House **Project: Cowbridge School** Stanwell Road Telephone:- +44(0) 29 2040 8476 Penarth Project Code:E1884501 Date: 06/11/2018 Vale of Glamorgan E-mail:- enquiy@soltysbrewster.co.uk Initials: DF CF64 2AA