HyNet North West

ENVIRONMENTAL STATEMENT - (VOLUME III)

Appendix 9.3 Bat Activity Survey Report (Tracked change)

HyNet Carbon Dioxide Pipeline DCO

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 - Regulations 5(2)(a)

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1. INTRODUCTION

1.1. PROJECT BACKGROUND

1.1.1. This technical appendix provides information on the activity of bat species and supports the assessment contained in **Chapter 9 – Biodiversity (Volume II)**.

1.1.2. **Revision B** of **Appendix 9.3 – Bat Activity Survey Report (AS-027)** superseded **Revision A** of **Appendix 9.3 (APP-098 to APP-101)** to take account updated survey data that was not presented within the Revision A.

1.1.3. This **Revision C** of **Appendix 9.3** replaces and supersedes **Appendix 9.3 (Revision B)** and provides updated baseline information in response to the proposed design changes as outlined in **Table i.i** of **Chapter I** of the ES Addendum.

1.1.4. The Applicant intends to build and operate a new underground carbon dioxide (CO_2) pipeline from Cheshire, England to Flintshire, Wales with necessary Above Ground Installations (AGIs) and Block Valve Stations (BVSs). It is classed as a Nationally Significant Infrastructure Project (NSIP) and will require a Development Consent Order (DCO) under the Planning Act 2008 ('PA2008') granted by the Secretary of State for Business, Energy and Industrial Strategy (BEIS).

1.1.5. The DCO Proposed Development will form part of HyNet North West ('the Project'), which is a hydrogen supply and Carbon Capture and Storage ('CCS') project. The goal of the Project is to reduce CO_2 emissions from industry, homes and transport and support economic growth in the North West of England and North Wales. The wider Project is based on the production of low carbon hydrogen from natural gas. It includes the development of a new hydrogen production plant, hydrogen distribution pipelines, hydrogen storage and the creation of CCS infrastructure. CCS prevents CO_2 entering the atmosphere by capturing it, compressing it, and transporting it for safe, permanent storage.

1.1.6. The DCO Proposed Development is a critical component of HyNet North West which, by facilitating the transportation of carbon, enables the rest of the Project to be low carbon. The hydrogen production, distribution and CO_2 capture and storage elements of the Project do not form part of the DCO Proposed Development and will be delivered under separate consenting processes.

1.1.7. The DCO Application will seek consent for the construction, operation and maintenance of the following components which are part of the DCO Proposed Development, namely:

- **Ince Above Ground Installation (AGI) to Stanlow AGI Pipeline** – a section of new underground onshore pipeline (20" in diameter) to transport CO_2;
- **Stanlow AGI to Flint AGI Pipeline** – a section of new underground onshore pipeline (36" in diameter) to transport CO_2;
- **Flint AGI to Flint Connection Pipeline** – a section of new underground onshore pipeline (24" in diameter) to transport CO_2;
- **Flint Connection to Point of Ayr (PoA) Terminal Pipeline** – a section of existing Connah's Quay to Point of Ayr (PoA) underground onshore pipeline (24" in diameter) which currently transports natural gas but would be repurposed and reused to transport CO_2. The Flint Connection to PoA Terminal Pipeline is scoped out of the EIA, except for the areas adjacent to the three BVSs that are within the Newbuild Infrastructure Boundary;
- **Four AGIs** - Ince AGI, Stanlow AGI, Northop Hall AGI, and Flint AGI;
- **Six Block Valve Stations (BVSs)** - located along:
    - The new Stanlow AGI to Flint AGI Pipeline (three in total);
    - The existing Flint Connection to PoA Terminal Pipeline (three in total);
- **Other above ground infrastructure**, including Cathodic Protection (CP) transformer rectifier cabinets and pipeline marker posts;
- **Utility Connection infrastructure**, including power utilities and Fibre Optic Cable (FOC); and
- **Temporary ancillary works** integral to the construction of the Carbon Dioxide Pipeline, including Construction Compounds and temporary access tracks.

1.1.8. Further details of each element of the DCO Proposed Development are set out in **Chapter 3 – Description of the DCO Proposed Development (Volume II)** ~~**of the 2022 ES (APP-055)**~~ and subsequent addenda.

1.2. ECOLOGICAL BACKGROUND

1.2.1. Extended Phase 1 habitat surveys were undertaken from 2020 and continued through 2021 and 2022, across the Newbuild Infrastructure Boundary for the DCO Proposed Development. Following these surveys, Preliminary Bat Roost Assessments (PBRAs) of structures and trees were undertaken.

1.2.2. The Newbuild Infrastructure Boundary is predominantly arable through industrial and rural village landscapes. Hedgerows, woodland, and grassland habitats are present throughout. A detailed description of habitats is provided in the **Appendix 9.1 - Habitats and Designated Sites Survey Report** (**Volume III**).

1.3. BRIEF SCOPE AND OBJECTIVES

1.3.1. The purpose of the surveys to support the PBRAs was to:

- Undertake external and internal inspections of built structures across the Newbuild Infrastructure Boundary to assess their suitability to support roosting bats.
- Undertake ground-level and aerial inspections (where required and safe to do so) of trees across the Newbuild Infrastructure Boundary to assess their suitability to support roosting bats.
- Undertake dusk emergence/ dawn re-entry surveys of those structures and trees identified with suitability to support bat roosts to establish the presence/likely absence of bat roosts.
- Use the data collected from these surveys to assess the direct and indirect effects of the DCO Proposed Development on bats utilising the Newbuild Infrastructure Boundary and provide suitable recommendations for avoidance, mitigation and compensation measures.

1.3.2. The results of the 2021 and 2022 surveys are presented within this report. The impact assessment and recommendations for mitigation and compensation are presented within **Chapter 9: Biodiversity (Volume II)**.

1.4. RELEVANT LEGISLATION AND POLICY

LEGAL COMPLIANCE

1.4.1. This report has been compiled with reference to the following relevant nature conservation legislation, planning policy and the UK Biodiversity Framework from which the protection of sites, habitats and species is derived in England and Wales.

- The Conservation of Habitats and Species 2017 (as amended) (**Ref. 1**);
- The Wildlife and Countryside Act 1981 (as amended) (**Ref. 2**);
- Natural Environment and Rural Communities Act (NERC) (**Ref. 3**);
- Environment (Wales) Act 2016 (**Ref. 4**);
- Planning Policy Wales (**Ref. 5**);
- Flintshire County Council Supplementary Planning Guidance documents (**Ref. 6**); and
- The Chester and Cheshire West local plan (**Ref. 7**).

1.4.2. Bat species are afforded a high level of protection under the Conservation of Habitats and Species Regulations 2017 (as amended) (the 'Habitats Regulations') (**Ref. 1**). The legislation outlines that it is an offence to

- 'Deliberately capture, injure, or kill a bat,
- Damage or destroy a breeding site or resting place of a bat
- Deliberately disturb bats in such a way as to be likely

a) to impair their ability -

i) to survive, to breed or reproduce, or to rear or nurture their young; or

ii) to hibernate or migrate; or

- to affect significantly the local distribution or abundance of the species'.

1.4.3. Protection is also partially afforded under the Wildlife and Countryside Act 1981 (as amended) (**Ref. 2**) with respect to disturbance of animals when using places of shelter or protection, and obstruction of access to places of shelter or protection.

1.4.4. Certain species of bats including noctule *Nyctalus noctula,* brown long-eared bat *Plecotus auritus* and soprano pipistrelle *Pipistrellus pygmaeus* are also listed as Species of Principal Importance (SPI) for the Conservation of Biodiversity in accordance with Section 41 of the NERC Act 2006 (**Ref 3**). Under Section 40 of the NERC Act (**Ref 3**), public bodies (including local planning authorities) have a duty to have regard for the conservation of SPI when carrying out their functions, including determining planning applications.

1.4.5. Certain species of bat, including barbastelle *Barbastella barbastellus*, Bechstein's bat *Myotis bechsteinii,* noctule, brown long-eared bat, lesser horseshoe bat *Rhinolophus hipposideros*, greater horseshoe bat *Rhinolophus ferrumequinum*, common pipistrelle *Pipistrellus pipistrellus* and soprano pipistrelle are also listed as SPI for the purpose of maintaining and enhancing biodiversity in relation to Wales under Section 7 of the Environment (Wales) Act 2016 (**Ref. 4**). Section 6 under Part 1 introduced an enhanced biodiversity and resilience of ecosystems duty (the S6 duty) for public authorities in the exercise of functions in relation to Wales, superseding provisions previously set out in the NERC Act 2006.

PLANNING POLICY COMPLIANCE

1.4.6. At the national level, the National Planning Policy Framework (NPPF) (2021) (**Ref. 8**) forms the basis for planning system decisions with respect to conserving and enhancing the natural environment, including bats, the ODPM circular 06/2005 also provides supplementary guidance, including confirmation that 'the presence of a protected species is a material consideration when a planning authority is considering a development proposal'.

1.4.7. The NPPF sets out, amongst other points, how at an overview level the:

- ‘Planning system should contribute to and enhance the national and local environment by recognising the wider benefits of natural capital and ecosystem services; and minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government’s commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures.

1.4.8. A list of principles which local planning authorities should follow when determining planning applications is detailed in the NPPF, and includes the following:

- If significant harm resulting from a development cannot be avoided… adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;
- Opportunities to incorporate biodiversity in and around developments should be encouraged;
- Development resulting in the loss or deterioration of irreplaceable habitats should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists.

1.4.9. Planning Policy Wales (**Ref. 5**) Chapter 5 outlines that:

- ‘Proposals for which development works would contravene the protection afforded to European protected species require derogations from the provisions of the Habitats Directive.
- A derogation may only be authorised if
  - i) There is no satisfactory alternative,
  - ii) If the action authorised will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in its natural range, and
  - iii) The development works to be authorised must be for the purposes of preserving ‘public health or safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment’

1.4.10. The Flintshire County Council Supplementary Planning Guidance (‘SPG’) 2017 (**Ref. 6**) also provide information and advice regarding aspects to consider during the planning process. SPG Number 8 Nature Conservation and Development outlined that before planning permission is granted, the Council needs to address three tests during its decision on the application:

‘1. there is ‘no satisfactory alternative’,

2. it is ‘not detrimental to the maintenance of the populations of the species concerned at favourable conservation status in their natural range’

3. it is ‘in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment’.

2. BASELINE METHODOLOGY

2.1. OVERVIEW

2.1.1. During 2021 and 2022, the following bat surveys were undertaken to support the DCO Proposed Development:

- PBRA surveys of structures and trees;
- Aerial tree-climb inspection surveys;
- Dusk emergence and dawn re-entry roost surveys;
- Bat activity surveys using static detectors; and
- DEFRA Local Scale Surveys.

2.1.2. The results of the bat activity surveys using static detectors and DEFRA Local Scale surveys are provided in **Appendix 9.4 - Bats and Hedgerow Assessment** (**Volume III**).

2.1.3. The above roost assessment surveys were undertaken, and this report prepared, in line with current best practice guidelines published by the Bat Conservation Trust (**Ref. 9**).

2.2. DESK STUDY

2.2.1. The desk study was undertaken in 2020 to review existing ecological baseline information including any sites designated for the presence of bats within 30 km of the Newbuild Infrastructure Boundary and to obtain information held by relevant third parties from the last ten years within 5 km of the Newbuild Infrastructure Boundary. Records of protected and/or notable species were requested from:

- Cofnod (North Wales Environmental Information Service); and
- rECOrd (Cheshire, Halton, Warrington and Wirral record centre).

2.2.2. The findings of the desk study have been incorporated within **Section 3** of this report and are detailed in ~~Annex B.~~Annex B.

2.3. PRELIMINARY BAT ROOST ASSESSMENT SURVEYS

2.3.1. Based on the features present and the location of the structure or tree, the potential for different types of bat roost was also considered. For the purpose of this preliminary roost assessment, potential roost types were grouped as follows (**Ref. 9**):

- Maternity (breeding roost);
- Summer / transitional (to include transitional, satellite, night and day roosts); and,
- Hibernation.

2.3.2. These surveys were carried out between March 2021 and December 2022.

STRUCTURES

2.3.3. Buildings and structures were inspected from ground level using binoculars and a high-powered torch. Buildings were inspected externally and internally where safe to do so and permissible in line with COVID-19 government guidelines. Potential Roosting Features (PRFs) were identified and recorded including suitable access points for bats, gaps in mortar, missing bricks, lifted lead flashing, missing roof tiles and gaps behind soffits and facias. These features were searched for the presence of bats or evidence such as droppings, staining and feeding signs.

2.3.4. Buildings and structures were assessed for their suitability to support roosting bats and categorised in line with ~~Table 1~~Table 1 below, adapted from the Good Practice Guidelines (**Ref. 9**).

TREES

2.3.5. Trees were inspected to identify PRFs for bats. Inspections were initially conducted from the ground using binoculars and a high-powered torch. A brief description of the tree's character was noted, along with surrounding habitat suitability for bats. Trees were photographed and mapped using tablets with GPS functionality, and the tree was tagged with a number, where possible. All features identified and considered suitable for use by roosting bats were recorded including woodpecker holes, knot holes, tear-outs, wounds, hazard-beams, frost cracks, lightning strikes etc.

2.3.6. PRFs were then examined for the presence of bats or evidence of roosting bats by a licensed ecologist, where accessible and safe to do so. Evidence could include bat droppings, scratches, smoothing, staining and odour.

2.3.7. Trees were assessed for their suitability to support roosting bats and categorised in line with ~~Table 1~~Table 1 below, adapted from the Good Practice Guidelines (**Ref. 9**).

Table 1 – Roost Suitability Categorisation

Category	Description
Confirmed	Structure or tree with features confirmed to be used by roosting bats either by historic records (verified appropriately), or evidence recorded during survey.
High	Structure or tree with one or more suitable 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.

Category	Description
Moderate	Structure or tree with one or more suitable 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 (with respect to roost type only, irrespective of species conservation status of this stage).
Low	Structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these roost sites do not provide enough space, shelter, or suitable surrounding conditions to support large numbers of bats. Tree of sufficient size and age to contain suitable roost sites but with none seen from the ground or features seen with only very limited roosting potential.
Negligible	Structure or tree with no suitable opportunities for roosting bats, or very few or minor features in an isolated/unsuitable location such that the presence of a roost is considered highly improbable. E.g., isolated from suitable foraging or commuting habitats.

2.4. AERIAL TREE CLIMB INSPECTION SURVEYS

2.4.1. In total, 86 trees were searched via climbed inspection surveys by a Natural England (NE) and / or Natural Resources Wales (NRW) bat licensed ecologist or accredited agent.

2.4.2. If the PRFs recorded were unable to be inspected from ground level, an aerial tree-climb inspection was completed at trees that were considered safe to climb. These surveys were undertaken by a minimum of two qualified tree climbers working under a minimum of a Class 2 NE bat licence and/ or NRW bat licence. Aerial tree-climb inspections were completed using an endoscope and a high-powered torch. The character, profile and suitability of PRFs to support a bat roost were recorded for all aerially inspected features, alongside the presence/absence of bats or evidence of bat use.

2.4.3. Where aerial tree climbing inspections were considered sufficient to thoroughly check all the PRFs on a tree, the tree climbing survey result was taken to replace one of the evening dusk emergence or dawn re-entry surveys.

2.5. DUSK EMERGENCE AND DAWN RE-ENTRY SURVEYS

2.5.1. In total, 160 structures and trees have been subject to dusk emergence or dawn re-entry surveys. Any surveys not completed due to access constraints or otherwise will be completed as part of pre-commencement surveys prior to construction. The Detailed Design of the DCO Proposed Development will dictate the extent and location of pre-commencement surveys to be undertaken, to ensure sufficient information to support any European Protected Species (EPS) licensing requirements to facilitate construction. A full list of survey dates and weather data for each survey can be found in ~~**Annex F.**~~**Annex F.**

2.5.2. Dusk emergence and dawn re-entry surveys were undertaken during the 2021 and 2022 bat survey season from May to September with at least two weeks between each visit, in line with the Good Practice Guidelines (**Ref. 9**). The survey effort for each feature type is outlined in ~~**Table 2** below.~~**Table 2** below. Where a survey visit was conducted in September and/or October, this only occurred where weather conditions were suitable and at least one visit had been conducted between May and August, inclusive.

2.5.3. Dusk emergence surveys involved the monitoring of identified PRFs on suitable trees and structures from 15 minutes before sunset to 1.5 hours after sunset. Dawn re-entry surveys involved the monitoring of identified PRFs on suitable trees and structures from 1.5 hours before sunrise to 15 minutes after sunrise.

2.5.4. Surveys were undertaken in suitable weather conditions, generally taken to be:

- A temperature of 10°C at dusk; and
- Absence of strong winds (6 or above on the Beaufort scale); and
- Dry or light rain only (2 or below on scale of 0-5).

Table 2 – Survey Effort for Bat Surveys at Structures and Trees

	Low Roost Suitability	**Moderate Roost Suitability**	**High Roost Suitability/Confirmed Roost**
Structures	One survey visit between May and August	Two separate survey visits (one dusk and a separate dawn) May-September with at least one survey between May and August	Three separate survey visits (at least one dusk and a separate dawn) May-September, with at least two surveys between May and August
Trees	No further surveys required		

2.5.5. The surveyors were equipped with full spectrum devices comprising Elekon Batlogger 'M' or Echo Meter Touch 2 Pro bat detectors to listen to and record echolocation calls of bats observed. During the survey, surveyors mapped the flight-lines used by bats and noted any features used by the bats to exit or enter the structure or tree. Incidental records of bat activity in the vicinity of the surveyor locations were also collected.

2.5.6. Cannon XA11 Infra-red camera(s) were deployed on approximately 10% of trees, prioritising features where visibility in darkness was most difficult. Between one and four cameras were used at a feature, depending on the level of cover required. Cameras were positioned to film PRFs identified from the PBRA surveys in addition to the surveyor. Cameras were deployed utilising the IR functionality, recording at 25 frames per second at 1920x1080 resolution. Two separate infra-red illuminators were deployed alongside the camera at positions to enhance the illumination of features (lamps comprised 96 LED arrays in the 850nm infrared range). Following the surveys, the infra-red footage was reviewed on a computer to check for any roost evidence that may have been missed, or confirm any potential roosts identified by the surveyor during the surveys.

DATA ANALYSIS

2.5.7. Following the dusk emergence and dawn re-entry surveys, the recorded calls were analysed using Wildlife Acoustics Kaleidoscope (Version 5.4.7) and Elekon Bat Explorer (Version 2.1) sound analysis software to verify bat species. Where possible, bat calls were identified to species level. However, species of the genus *Myotis* were grouped together in most cases as their calls are similar in structure and have overlapping call parameters, making species identification problematic (**Ref 10, Ref 11** and **Ref 12).** For *Pipistrellus* species, the following criteria based on measurements of peak frequency were used to classify calls:

- Common pipistrelle ≥ 42 and <49KHz;
- Soprano pipistrelle ≥ 51KHz;
- Nathusius' pipistrelle *Pipistrellus nathusii* <39KHz;
- Common/soprano pipistrelle ≥49 and <51KHz; and
- Common/Nathusius' pipistrelle ≥39 and <42KHz.

2.5.8. In addition, the following categories were used for calls that could not be identified with confidence due to the overlap in call characteristics between species or species groups:

- Nyctalus sp. (either Leisler's bat *Nyctalus leisleri* or noctule); and
- Noctule/Leisler's bat/serotine *Eptesicus serotinus*

2.6. DATES OF SURVEY AND PERSONNEL

2.6.1. Bat surveys, including external building assessments, were led by experienced surveyors with a minimum of two years' experience of undertaking bat surveys and included licensed individuals. Surveys were carried out under the following licence numbers:

- 2017-32292-CLS-CLS (NE)
- 2015-15891-CLS-CLS (NE)
- 2015-15829-CLS-CLS (NE)
- S088709/3 (NRW)

2.6.2. The timing of survey visits is available in ~~Table 7, Table 8 and Table 9~~**Table 7**, **Table 8** and **Table 9** in **Annex E** and **Annex F**.

2.7. NOTES AND LIMITATIONS

2.7.1. Records held by local biological record centres and local recording groups are generally collected on a voluntary basis. Therefore, the absence of records does not demonstrate the absence of species, it may simply indicate a gap in recording coverage. In the case of bat roosts, the type of roost is often unrecorded due to the difficulty of interpreting such data.

2.7.2. As a result of the COVID-19 pandemic, restrictions on survey method were imposed to safeguard surveyor and public health and structures were only inspected externally to protect the surveyors and occupants. Full viewshed of the structures was obtained where possible and all structures were subject to the recommended survey efforts as described in ~~**Table 2**,~~**Table 2**, enabling a full external assessment. As such, the lack of internal inspection has not adversely impacted the results or conclusions presented within this report.

2.7.3. Surveys were confined to land where access had been permitted. Access was limited at certain features where adjoining landowners had not agreed access which could have reduced views of the target feature. Where this is the case, a conservative assumption was made based on available data, survey results or the feature was re-surveyed when access became available.

2.7.4. Some features on structures or trees were obscured by vegetation or other obstructions. Where this was the case, surveyors on dusk emergence surveys and dawn re-entry surveys orientated themselves to achieve the best possible viewshed of the features. If this was not possible, the surveys were repeated when further access was available, or an extra aerial tree climb inspection was considered in the case of trees. A precautionary assessment has been applied where any ambiguity over roost presence was found. This approach has not adversely impacted the results or conclusions of this report.

2.7.5. Not all trees with moderate or high suitability to support bat roosts were able to be subjected to an aerial tree climb inspection survey due to health and safety concerns or access issues. Where this was the case, the correct survey effort was carried out through dusk emergence and dawn re-entry surveys.

2.7.6. Some dusk emergence and dawn re-entry surveys were constrained by equipment malfunction and failure. However, as there is always more than one surveyor in the vicinity of the target feature during each survey, the recordings from the nearest surveyor were used to determine species. Where data was not suitable then the survey was repeated. This has not adversely affected the results of the surveys or conclusions of this report.

2.7.7. Some dusk emergence and dawn re-entry surveys were conducted using zero crossing recording devices rather than full spectrum recording devices. This data was still able to be analysed, with the sound files used to identify the species recorded during the surveys. No new roosts were identified at any locations where zero crossing recorded devices were used. The results of these surveys are suitable for use and have not adversely impacted the results or conclusions of this report.

2.7.8. A dusk emergence survey carried out on T105 on 05 October 2021 was carried out in suboptimal windy conditions. No bats were detected, but this is not thought to have affected results as the tree was found fallen on 03 March 2022. The tree was downgraded to negligible suitability to support bat roosts and the second scheduled survey cancelled.

2.7.9. Some dusk emergence and dawn re-entry survey visits were constrained or abandoned due to sub-optimal weather and/or aggressive livestock and were not able to be rescheduled. As such, full survey effort (in comparison to ~~Table 2~~Table 2 above) was not completed for those detailed in **Annex C, Table 5** and **Annex D, Table 6**. The remaining surveys will be completed as part of pre-commencement surveys prior to construction. In the absence of a full suite of survey visits, a worst-case precautionary assessment in the form of a confirmed roost has been assumed and assessed (as detailed in **Annex C, Table 5** and **Annex D, Table 6)**.

2.7.10. One group of trees (T325, T326 and T327) was recorded as being utilised by multiple brown long-eared bats due to potential emergences recorded during the first survey (10/08/2021). However, subsequent survey visits did not record any roosting activity. As such, a precautionary approach has been taken and T325, T326 and T327 are assumed to each support a brown long-eared day roost.

2.7.11. Due to the proposed design changes and amendments to the Newbuild Infrastructure Boundary, additional PBRA surveys were completed in December 2022. Additional trees (T491-T499) were assessed as having either Low or Moderate suitability to support roosting bats. Trees that were assessed as having Moderate suitability to support roosting bats (T491, T495, T496 and T499) have not yet been subject to dusk emergence and dawn re-entry survey visits. The remaining surveys will be completed as part of the pre-commencement surveys prior to construction, where required. In the absence of a full suite of survey visits, a worst-case precautionary assessment in the form of a confirmed roost (of a single/low number of common bat species in keeping with roosts recorded to date) has been assessed (as detailed in **Annex D, Table 6)**.

3. RESULTS

3.1. DESK STUDY

3.1.1. The results of the desk study are summarised below. Full results of records for bat species can be found in **Annex B.**

NEWBUILD INFRASTRUCTURE BOUNDARY

3.1.2. No SACs which are designated for bats were identified within 30 km of the Newbuild Infrastructure Boundary. In addition, no SSSIs designated for bats were identified within 5 km of the Newbuild Infrastructure Boundary.

3.1.3. The desk study from rECOrd returned 192 records of bats within 5 km of the Newbuild Infrastructure Boundary from the last ten years. Eight of these records pertained to confirmed bat roosts, the closest being 0.59 km south-east of the Newbuild Infrastructure Boundary pertaining to two soprano pipistrelles. The closest record overall related to one brown long-eared bat, 0.03 km west of the Newbuild Infrastructure Boundary in 2017. The most recent record was of a common pipistrelle 2.48 km to the southwest in 2020.

3.1.4. The desk study from Cofnod returned 163 records of bats within 5 km of the Newbuild Infrastructure Boundary from the last ten years. Eighteen of these records pertained to confirmed bat roosts, the closest being 0.08 km east of the Newbuild Infrastructure Boundary pertaining to a day roost of two common pipistrelles, a single soprano pipistrelle and a single lesser horseshoe bat. The closest record related to the foraging and commuting activity of 46 common pipistrelles recorded over three nights, 0.04 km to the northeast of the Newbuild Infrastructure Boundary in 2014.The most recent record was the same day roost previously detailed pertaining to two common pipistrelles, a single soprano pipistrelle and a single lesser horseshoe bat, located 0.08 km east of the Newbuild Infrastructure Boundary in 2019.

3.1.5. There are also unconfirmed bat species records and unidentified pipistrelle species records where the species has not been confirmed or identified to species level.

3.1.6. From these records, no confirmed or potential bat roosts within the Newbuild Infrastructure Boundary were identified. Twenty-six confirmed or potential bat roosts were identified within 5 km of the Newbuild Infrastructure Boundary from the last ten years. Due to these records being collected mostly on a volunteer basis, the potential roost type is unknown in all but one record. These roosts are detailed in ~~Table 3.~~Table 3.

Table 3 – Confirmed/Potential Bat Roosts Within 5 km of the Newbuild Infrastructure Boundary from the Last Ten Years

Species	Date of Record	Estimated ~~roost size~~Roost Size	Distance and Orientation from Site
Lesser Horseshoe bat	06/06/2016	1 bat (Day roost)	0.29 km south-west
Common pipistrelle	01/08/2019	2 bats	0.08 km east
Soprano pipistrelle	01/08/2019	1 bat	0.08 km east
Lesser horseshoe bat	01/08/2019	1 bat	0.08 km east
Brown long-eared bat	01/05/2012	2 bats	0.33 km north-west
Common pipistrelle	01/05/2012	4 bats	0.33 km north-west
Soprano pipistrelle	13/08/2019	2 bats	0.59 km south-east
Pipistrelle sp.	11/03/2020	2 bats	0.69 km south
Pipistrelle sp.	12/03/2020	2 bats	0.69 km south
Soprano pipistrelle	02/07/2019	1 bat	0.74 km south
Soprano pipistrelle	25/07/2019	1 bat	0.74 km south
Brown long-eared bat	11/03/2020	1 bat	0.79 km south
Brown long-eared bat	29/05/2019	1 bat	0.8 km south
Brown long-eared bat	04/07/2012	2 bats	0.86 km north
Pipistrelle sp.	18/06/2012	Unknown – only droppings present	0.22 km south-west
Brown Long-eared Bat	29/06/2013	5 Adults	2.17 km west
Common Pipistrelle	11/07/2018	80 Adult	2.25 km southwest
Brown Long-eared Bat	01/08/2017	20	2.46 km south
Common Pipistrelle	29/05/2020	50 plus	2.48 km southwest
Lesser Horseshoe Bat	14/07/2016	1	3.25 km southwest
Lesser Horseshoe Bat	06/07/2014	Droppings	3.26 km south

Species	Date of Record	Estimated ~~roost size~~Roost Size	Distance and Orientation from Site
Common Pipistrelle	16/08/2019	1 Adult	3.3 km south
Whiskered Bat	13/05/2019	1 Droppings	3.3 km south
Pipistrelle	01/05/2015	1	4.01 km southeast
Lesser Horseshoe Bat	27/06/2012	Unknown	4.56 km west
Lesser Horseshoe Bat	24/06/2015	54	4.65 km west

3.1.7. A total of 24 European Protected Species (EPS) licences pertaining to nine bat species were granted within 5 km of the Newbuild Infrastructure Boundary. The closest of these (ref: EPSM2012-4287) was located 170 m northeast of the Newbuild Infrastructure Boundary and related to the destruction of a resting place of common pipistrelle.

3.2. PRELIMINARY ROOST ASSESSMENT SURVEYS

STRUCTURES

3.2.1. Following PBRA surveys, 90 structures were identified within the Newbuild Infrastructure Boundary. Of these, 79 were classified as having Negligible suitability to support roosting bats and therefore were not carried forward for further surveys. A total 11 structures were assessed as having suitability to support roosting bats. This comprised of:

- 6 structures with low suitability to support roosting bats;
- 4 structures with moderate suitability to support roosting bats; and
- 1 structure with high suitability to support roosting bats.

3.2.2. No roosts were identified during PBRA surveys. Full results of the structure inspection surveys are provided in ~~**Annex C; Table 5**~~**Annex C; Table 5** and presented in **Figure 9.3.1**. Photographs are shown in ~~Annex G;~~**Annex G;** Table 11.

TREES

3.2.3. Following ground level tree inspection surveys, 427 trees were assessed as having suitability to support roosting bats. This comprises:

- 202 trees with low suitability to support roosting bats;
- 192 trees with moderate suitability to support roosting bats; and
- 33 trees with high suitability to support roosting bats.

3.2.4. No roosts were identified during PBRA surveys.

3.2.5. Full results of the tree inspection surveys are provided in ~~Annex D; Table 6.~~Annex D; Table 6. Photographs are shown in Annex G; Table 10.

3.3. AERIAL TREE CLIMB INSPECTION SURVEYS

3.3.1. A total of 86 trees were subject to aerial tree climbing inspections, where the tree was safe and accessible. Following the aerial tree climbing inspections, the numbers of trees with suitability to support bat roosts was adjusted as follows:

- 12 trees with negligible suitability to support roosting bats:
  - All downgraded from moderate and high suitability during the aerial tree climbing surveys;
- 234 trees with low suitability to support roosting bats:
  - 38 trees downgraded to low suitability from moderate and high suitability following the aerial tree climbing surveys;
- 140 trees with moderate suitability to support roosting bats:
  - 33 trees downgraded to low suitability and four upgraded to high from moderate suitability following tree climbing surveys
- 31 trees with high suitability to support roosting bats:
  - Five trees downgraded to low and four trees upgraded to high suitability from moderate suitability following the aerial tree climbing surveys.

3.3.2. No roosts were identified during aerial tree climbing inspection surveys. ~~-~~Full results of the ground level tree inspection surveys and results following the aerial tree climbing inspections are provided in ~~Annex D; Table 6~~Annex D; Table 6 and **Figure 9.3.2.**

3.4. DUSK EMERGENCE AND DAWN RE-ENTRY SURVEYS

3.4.1. The following bat species were recorded during the dusk emergence and dawn re-entry surveys. Behaviours recorded included foraging or commuting close to the target survey features:

- Common pipistrelle
- Soprano pipistrelle
- *Myotis* spp.
- Brown long-eared bat
- Noctule

3.4.2. Due to low light levels, vegetation cover, or surveyor location, visibility of some emergences or re-entries from target features was reduced. These instances were treated as confirmed roosts, all of which are detailed in ~~Annex E; Table 7~~Annex E; Table 7 and presented in **Figure 9.3.3**

STRUCTURES

3.4.3. Following the PBRA surveys of structures, seven structures were subject to dusk emergence and dawn re-entry surveys. The surveys identified bat roosts in three structures within the Newbuild Infrastructure Boundary. B97 was utilised by a single common pipistrelle as a day roost and B133 supported a day roost for a small number of common and soprano pipistrelle. B113 supported a day roost for common pipistrelle, with a single common pipistrelle emerging during the first dusk survey visit, and six common pipistrelles emerging during the third survey visit. Confirmed bat roosts are detailed in ~~Annex E; Table 7~~Annex E; Table 7 and presented in **Figure 9.3.3**. Those structures precautionarily assessed as a roost due to incomplete survey effort are detailed in **Annex C, Table 5.**

TREES

3.4.4. Following the PBRA surveys and aerial tree climb inspections, 153 trees were subject to dusk emergence and dawn re-entry surveys. The surveys identified bat roosts in 17 trees within the Newbuild Infrastructure Boundary. Of these roosts, ten were utilised by a single common or soprano pipistrelle as a day roost, one (T1) saw two soprano pipistrelles returning to the roost, one (T238) saw two soprano pipistrelles emerge from the roost and one (T111) saw a common soprano and a *Myotis sp*. return to roost. T321 was utilised by multiple noctules as a maternity roost and a single soprano pipistrelle as a day roost.

3.4.5. The remaining three recorded roosts were T325, T326 and T327, which were believed to be utilised by a small number of brown long-eared bats due to potential emergences of several bats during the first survey of T325 (10/08/2021). However, the subsequent two survey visits in June and July 2022 did not record any roosting activity at any of the trees. As such, a precautionary approach is taken and all three are assumed to support BLE day roosts.

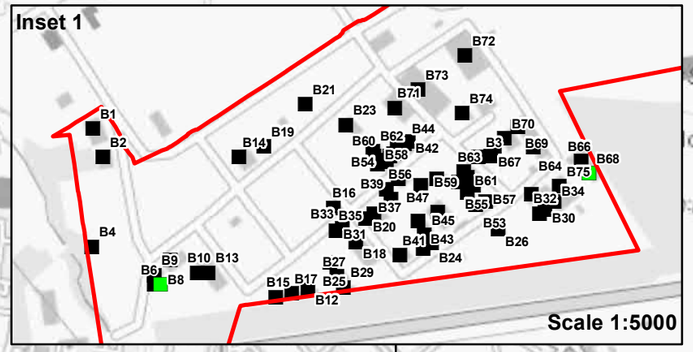
3.4.6. Confirmed bat roosts (including the potential roosts) are detailed in ~~Annex E; Table 7~~Annex E; Table 7 and presented in **Figure 9.3.3.** Those trees precautionarily assessed as a roost are detailed in **Annex D, Table 6.**

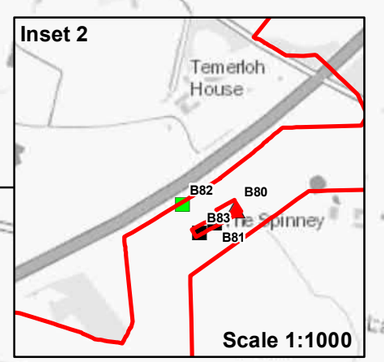
4. REFERENCES

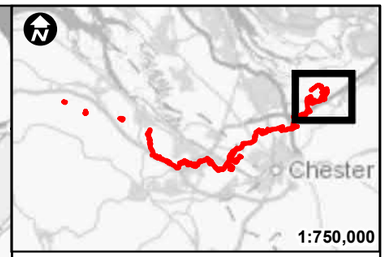
- **Ref. 1**: Her Majesty's Stationary Office (HMSO) (2017). *The Conservation of Habitats and Species Regulations 2017 (as amended).* HMSO, Norwich.
- **Ref. 2:** HMSO (1981). *Wildlife and Countryside Act (as amended by the Countryside and Rights of Way Act 2000).* HMSO, Norwich.
- **Ref. 3:** HMSO (2006) *Natural Environment and Rural Communities Act* HMSO, Norwich.
- **Ref. 4:** HMSO (2016) *Environment (Wales) Act 2016*. Welsh Government.
- **Ref. 5:** Welsh Government (2021). *Planning Policy Wales, Planning Policy Wales – Edition 11.*
- **Ref. 6:** Flintshire County Council Local Plan (2021) *Flintshire County Council Supplementary Guidance Documents* Supplementary Guidance.
- **Ref. 7:** The Chester and Cheshire West Local Plan (2017), *Cheshire West and Cheshire Council, Local Plan, Part Two: Land Allocations and Detailed Policies.*
- **Ref. 8:** Department for Communities and Local Government (DCLG) (2019). *The National Planning Policy Framework*. DCLG, London.
- **Ref. 9:** Collins J. (ed.) (2016) *Bat Surveys for Professional Ecologists, Good Practice Guidelines (3rd Edition).* The Bat Conservation Trust, London.
- **Ref. 10:** Russ, J (2021) *Bat Calls of Britain and Europe: A Guide to Species Identification.* Pelagic Publishing, Exeter.
- **Ref. 11:** Russ, J (2012) *British Bat Calls: A Guide to Species Identification.* Pelagic Publishing, Exeter.
- **Ref. 12:** Middleton, N (2020) *Is That a Bat? A Guide to Non-Bat Sounds Encountered During Bat Surveys.* Pelagic Publishing, Exeter.

Annex A

FIGURES







Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Precautionary Confirmed Roost
- Low
- Negligible

SCALE:

0 375 750 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 1 of 6

DRAWING STATUS

FOR DESIGN CHANGE REQUEST 1

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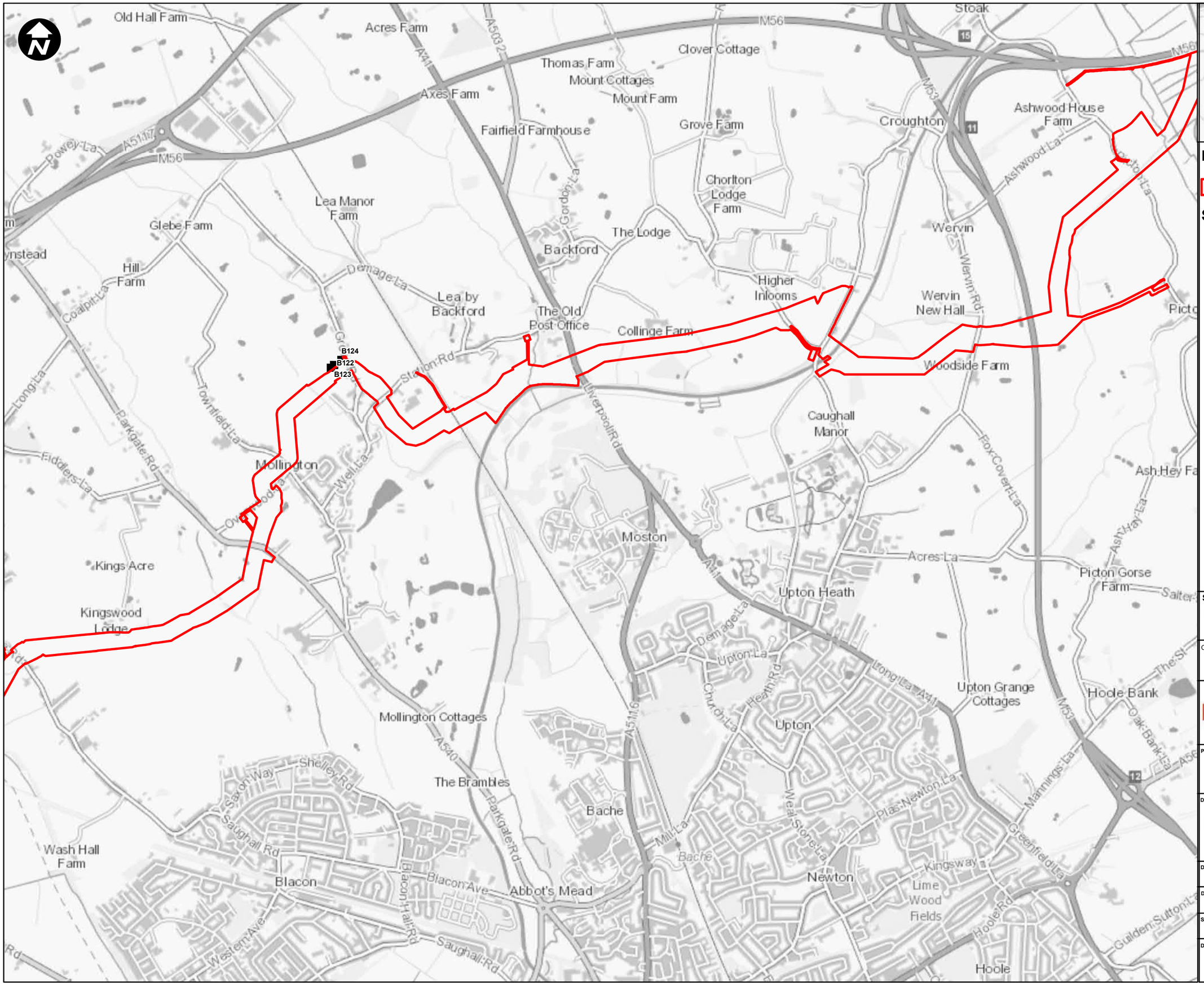

Key:

Newbuild Infrastructure Boundary

Suitability

- Negligible

SCALE:

0 375 750 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 2 of 6

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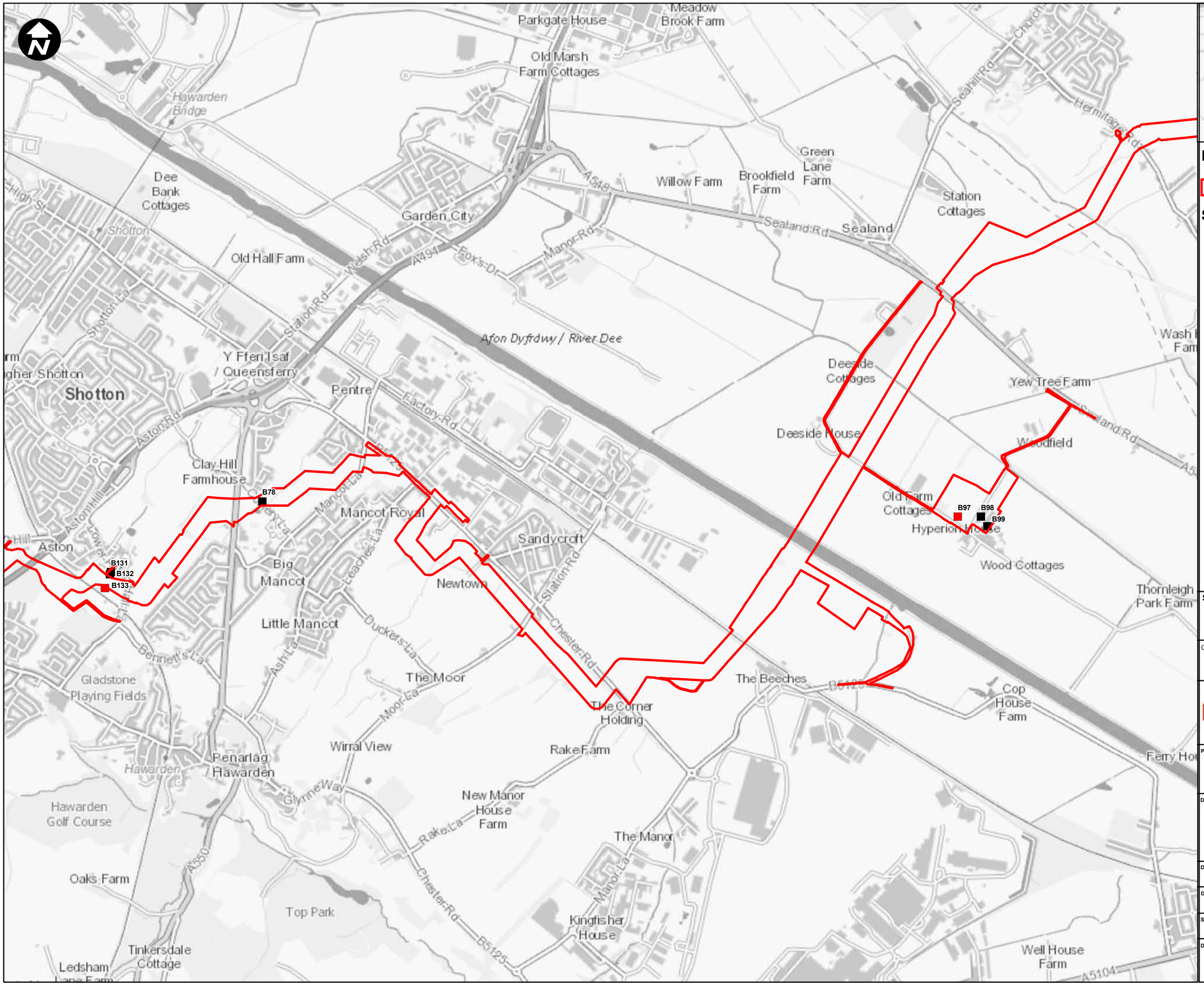

Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Negligible

SCALE:

0 375 750 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 3 of 6

DRAWING STATUS

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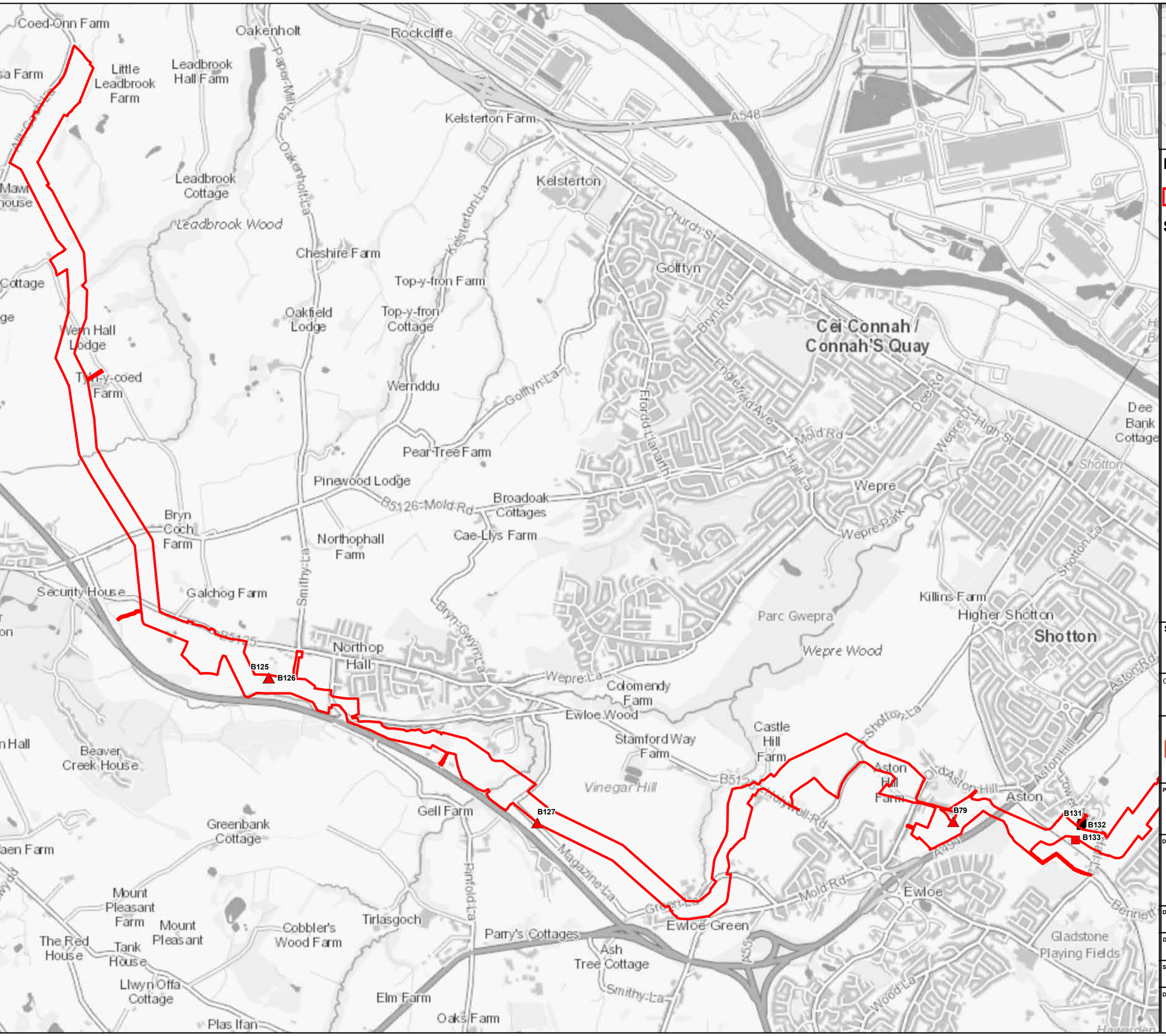

Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Precautionary Confirmed Roost
- Negligible

SCALE:

0 375 750 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 4 of 6

DRAWING STATUS

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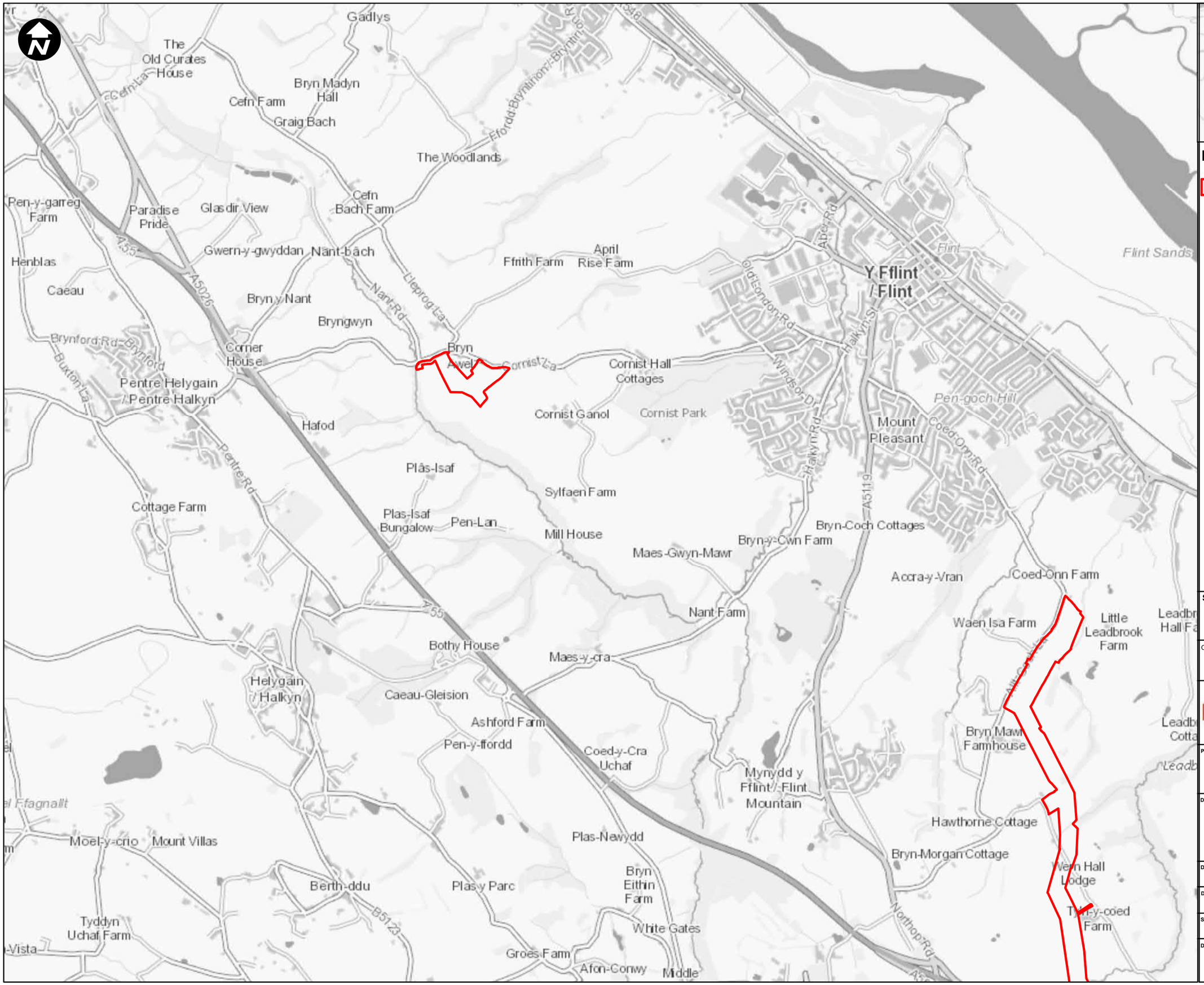

Key:

Newbuild Infrastructure Boundary

SCALE:

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 5 of 6

DRAWING STATUS

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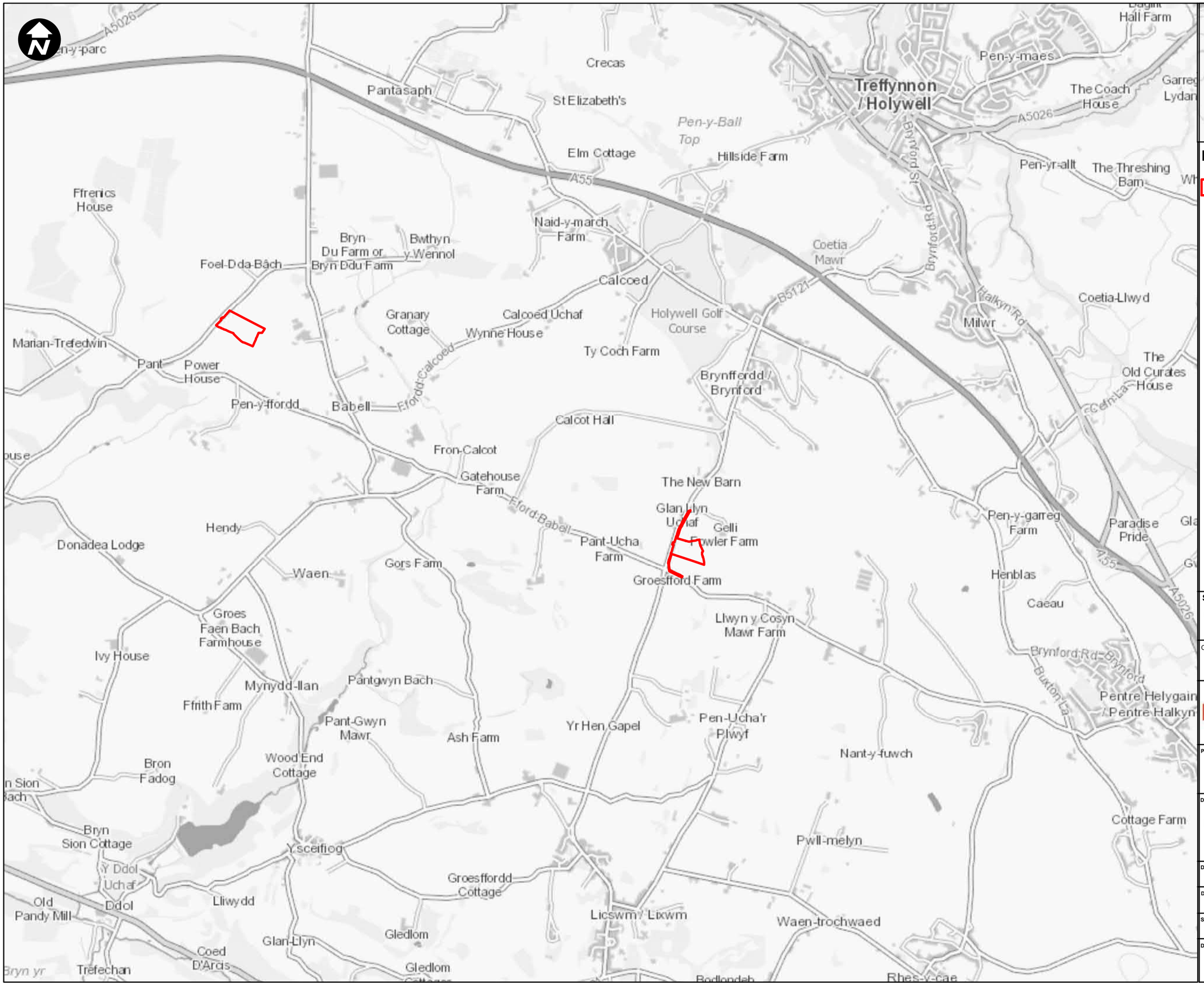

Key:

Newbuild Infrastructure Boundary

SCALE:

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HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 6 of 6

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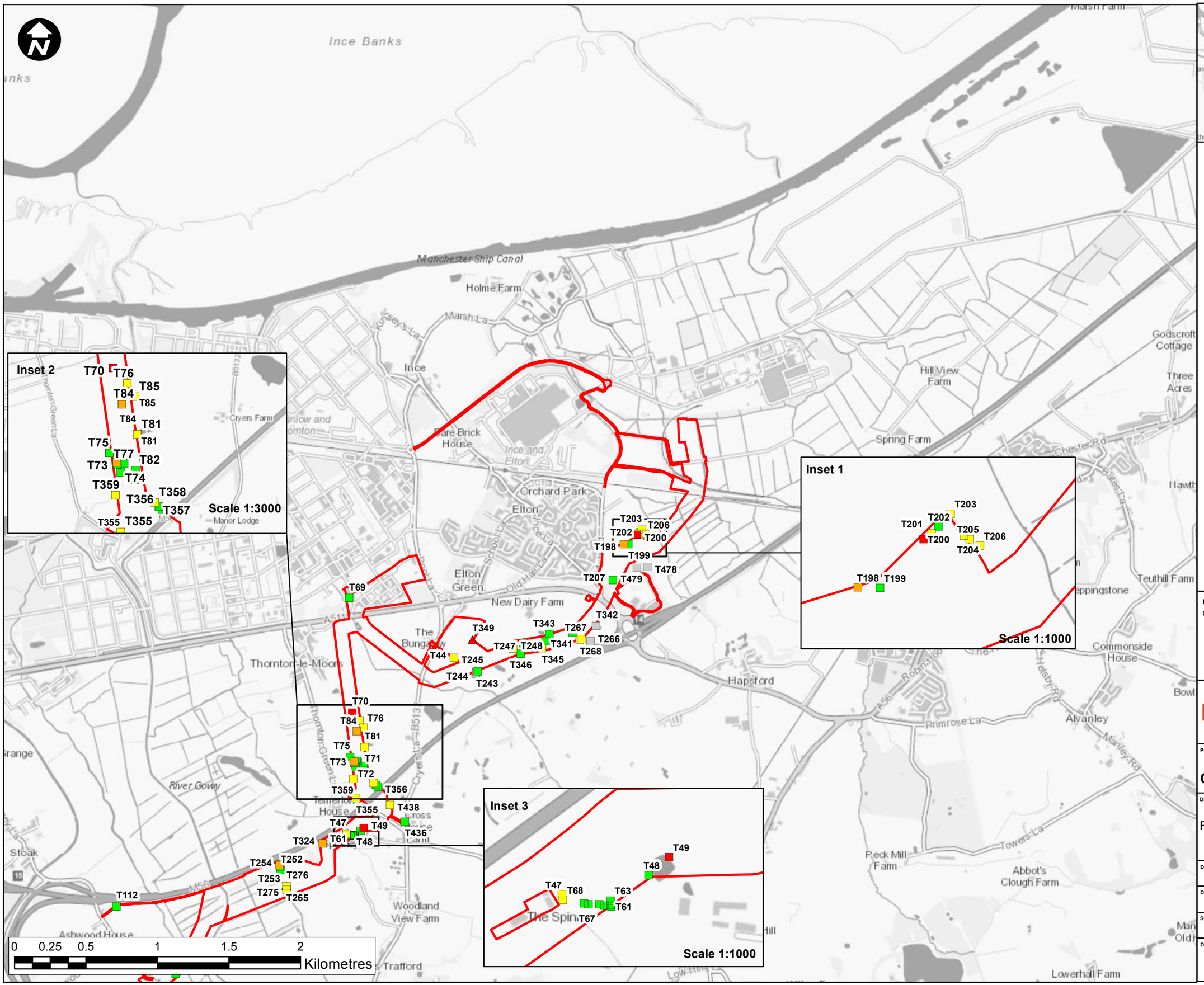

Key:

▭ Newbuild Infrastructure Boundary

Suitability

🟥 Confirmed Roost

▲ Precautionary Confirmed Roost

🟧 Likely absent - High

🟨 Likely absent - Moderate

🟩 Low

⬜ N/A - Outside NIB

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HyNet North West

PROJECT TITLE

HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 1 of 9

DRAWING STATUS

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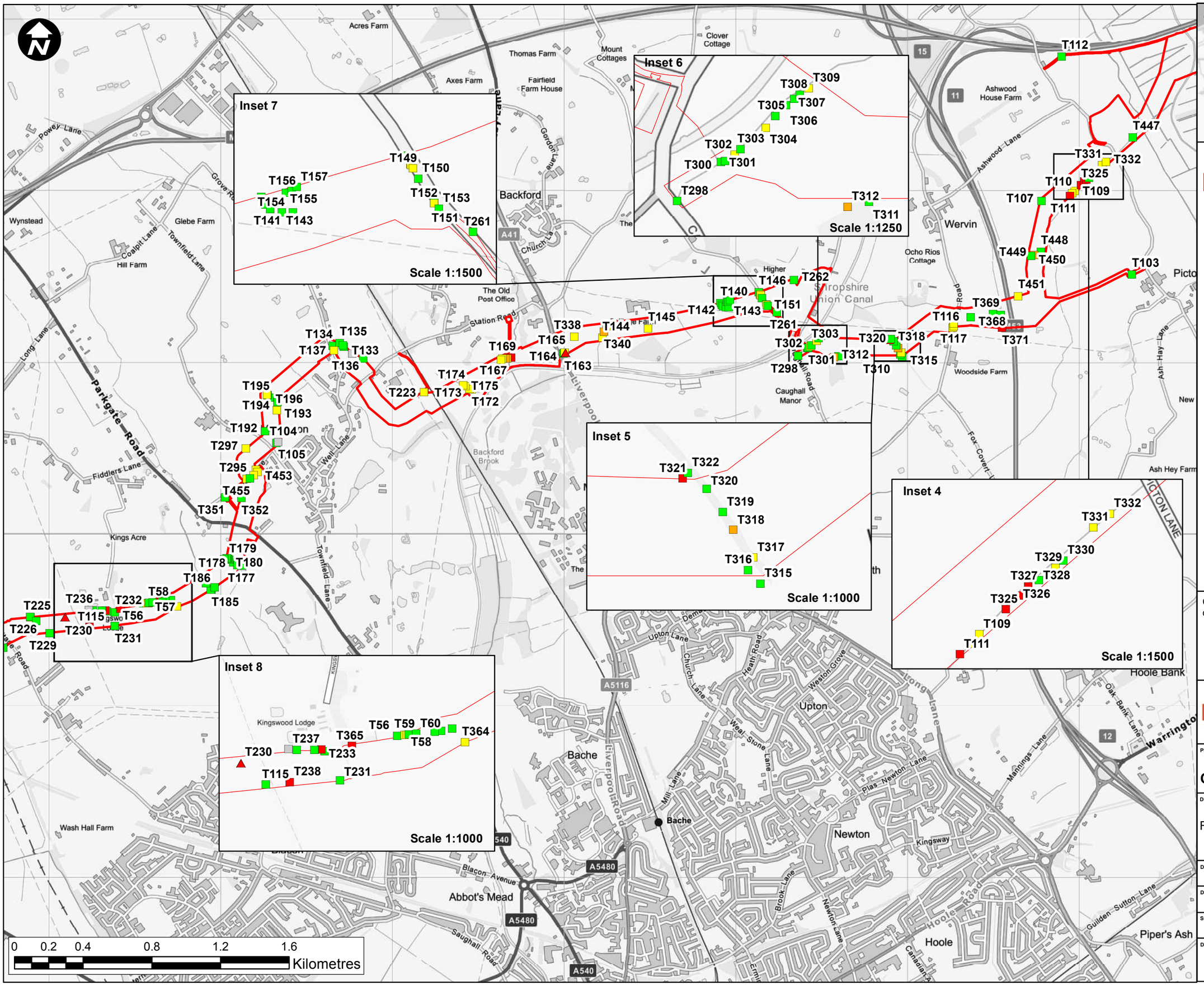

Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Precautionary Confirmed Roost
- Likely absent - High
- Likely absent - Moderate
- Low
- Negligible

HyNet North West

PROJECT TITLE
HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 2 of 9

DRAWING STATUS
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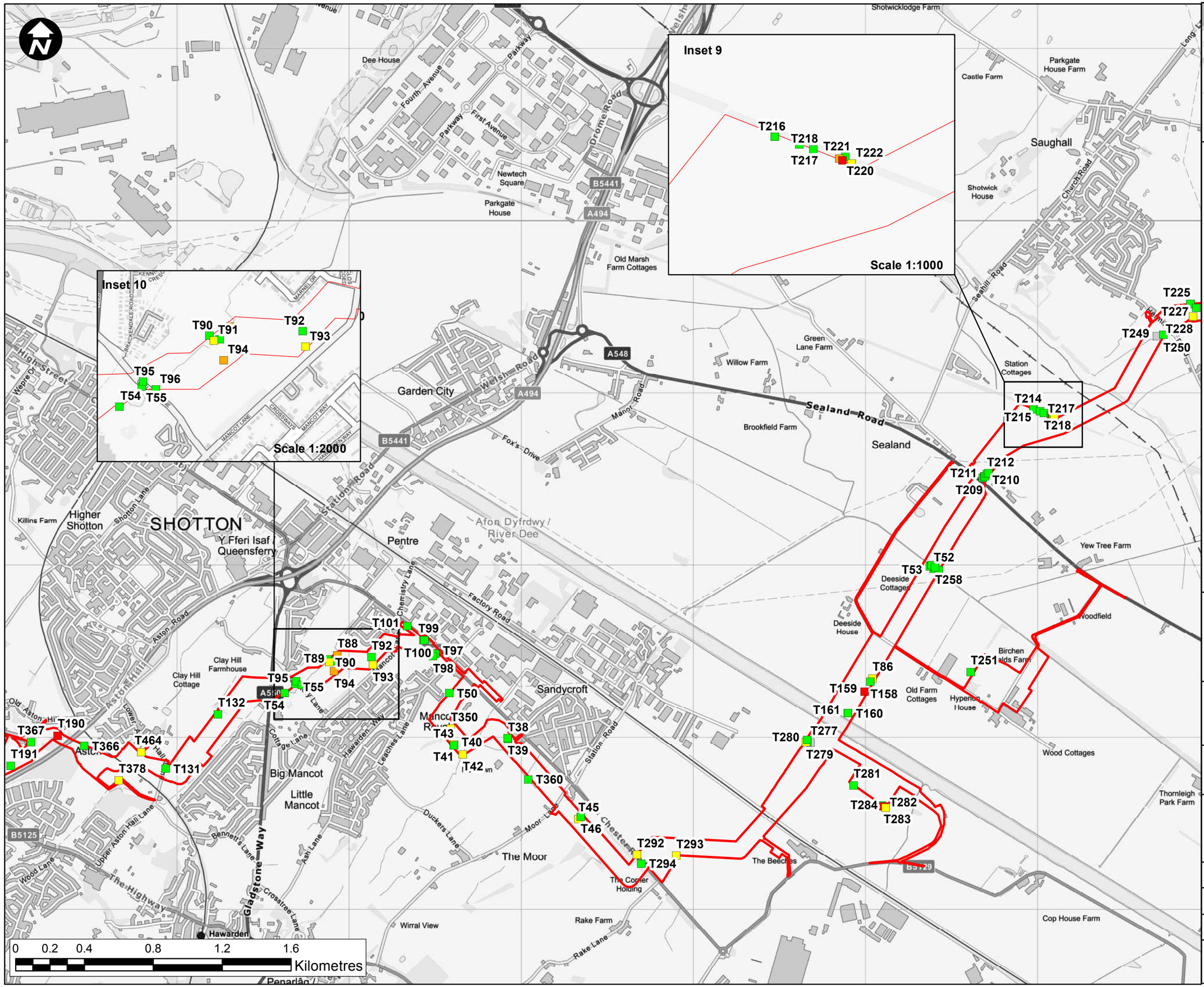

Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Likely absent - High
- Likely absent - Moderate
- Low
- Negligible

HyNet North West

PROJECT TITLE
HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 3 of 9

DRAWING STATUS
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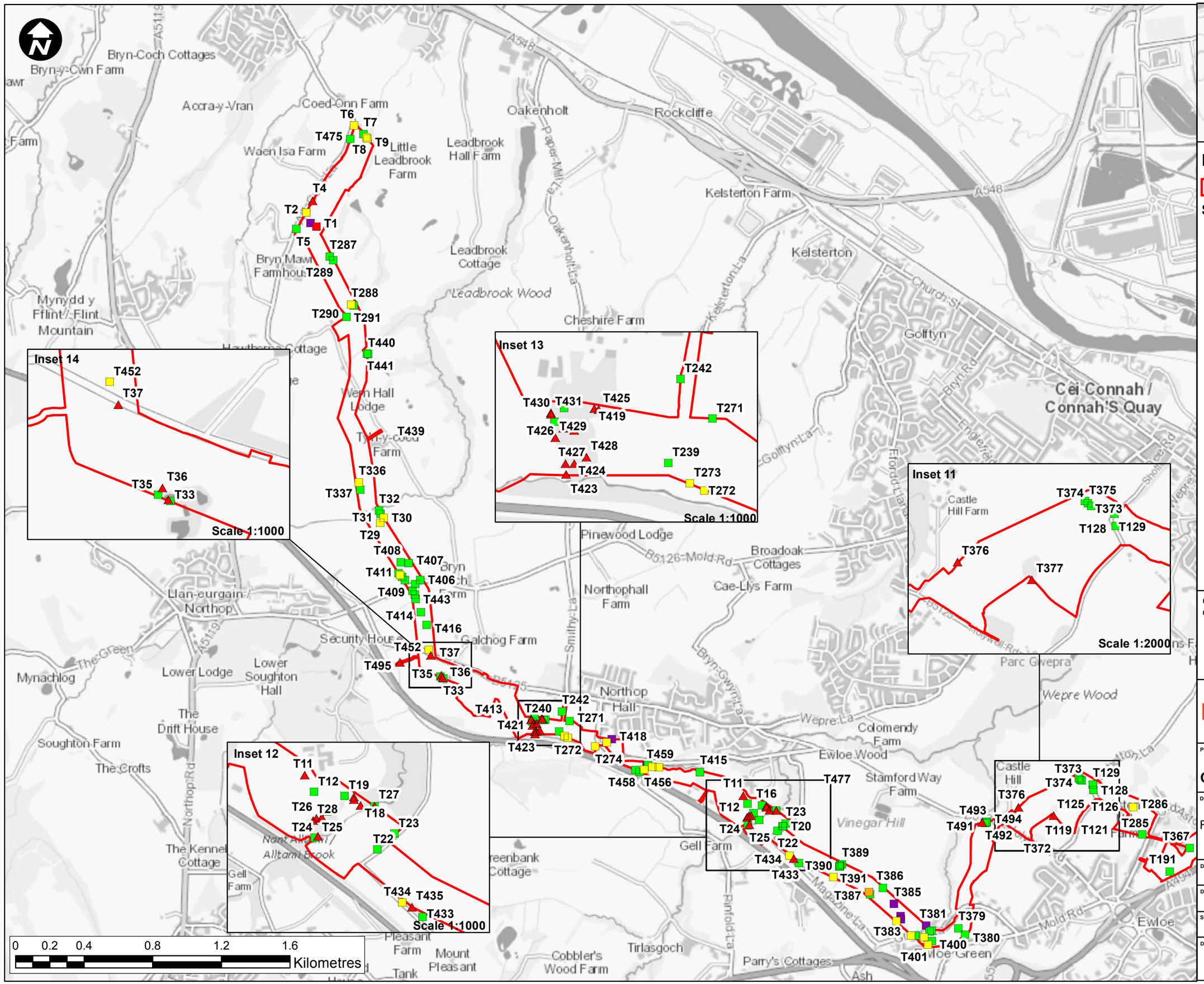

Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Precautionary Confirmed Roost
- Likely absent - High
- Likely absent - Moderate
- Low
- Negligible

HyNet North West

PROJECT TITLE
HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 4 of 9

DRAWING STATUS
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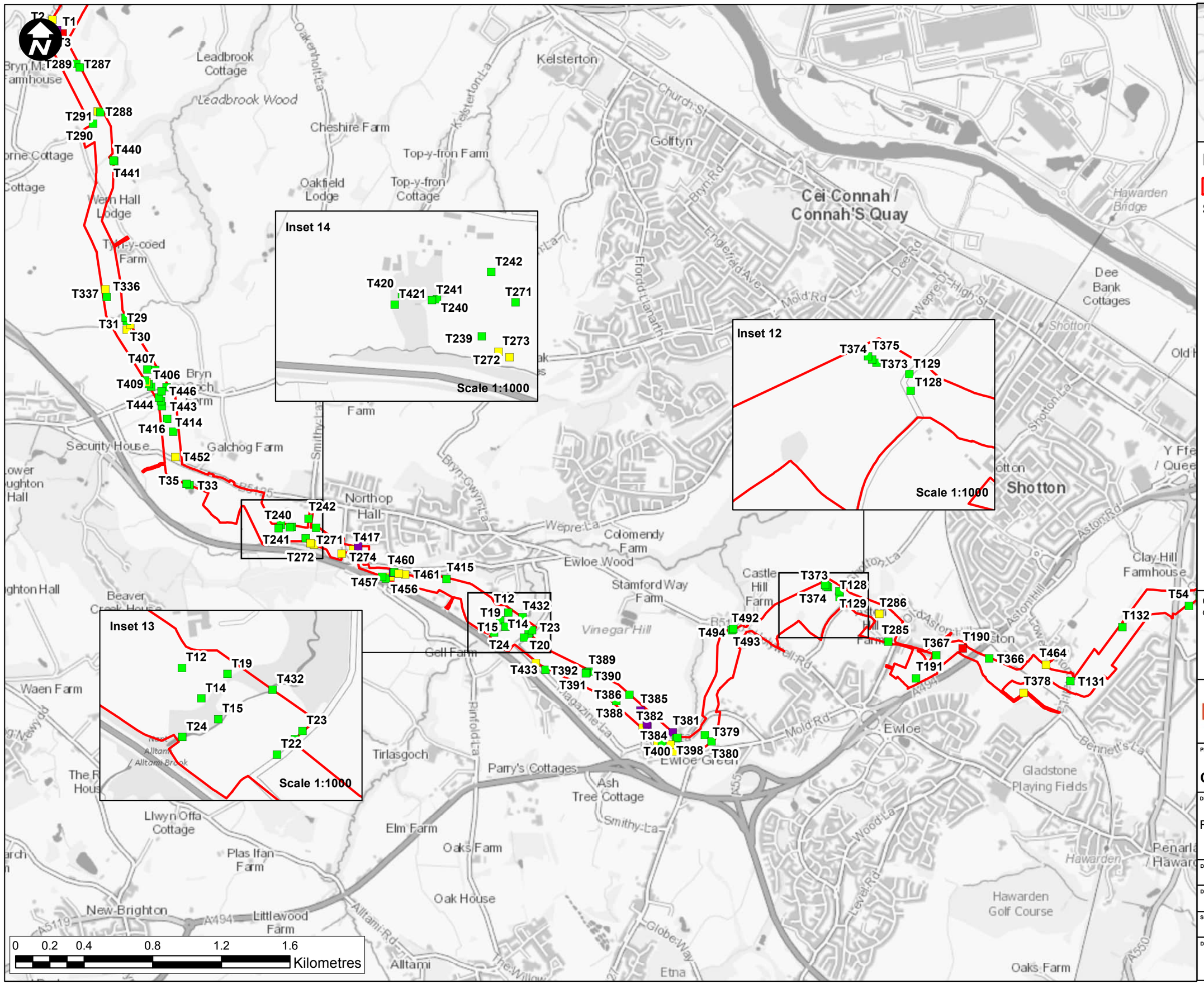

Key:

- Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- Likely absent - High
- Likely absent - Moderate
- Low
- Negligible

HyNet North West

PROJECT TITLE
HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 5 of 9

DRAWING STATUS
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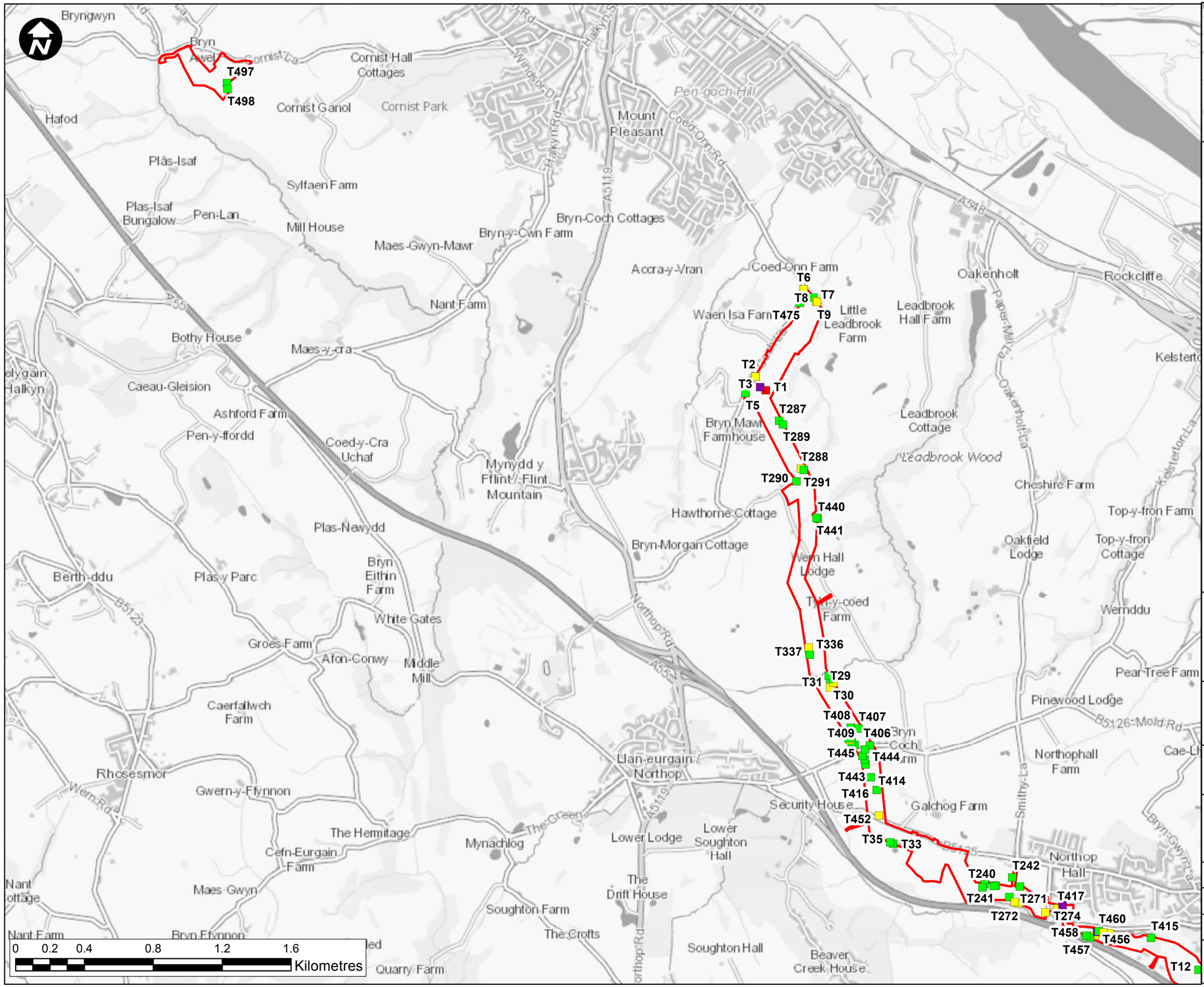

HyNet North West

PROJECT TITLE
HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 6 of 9

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

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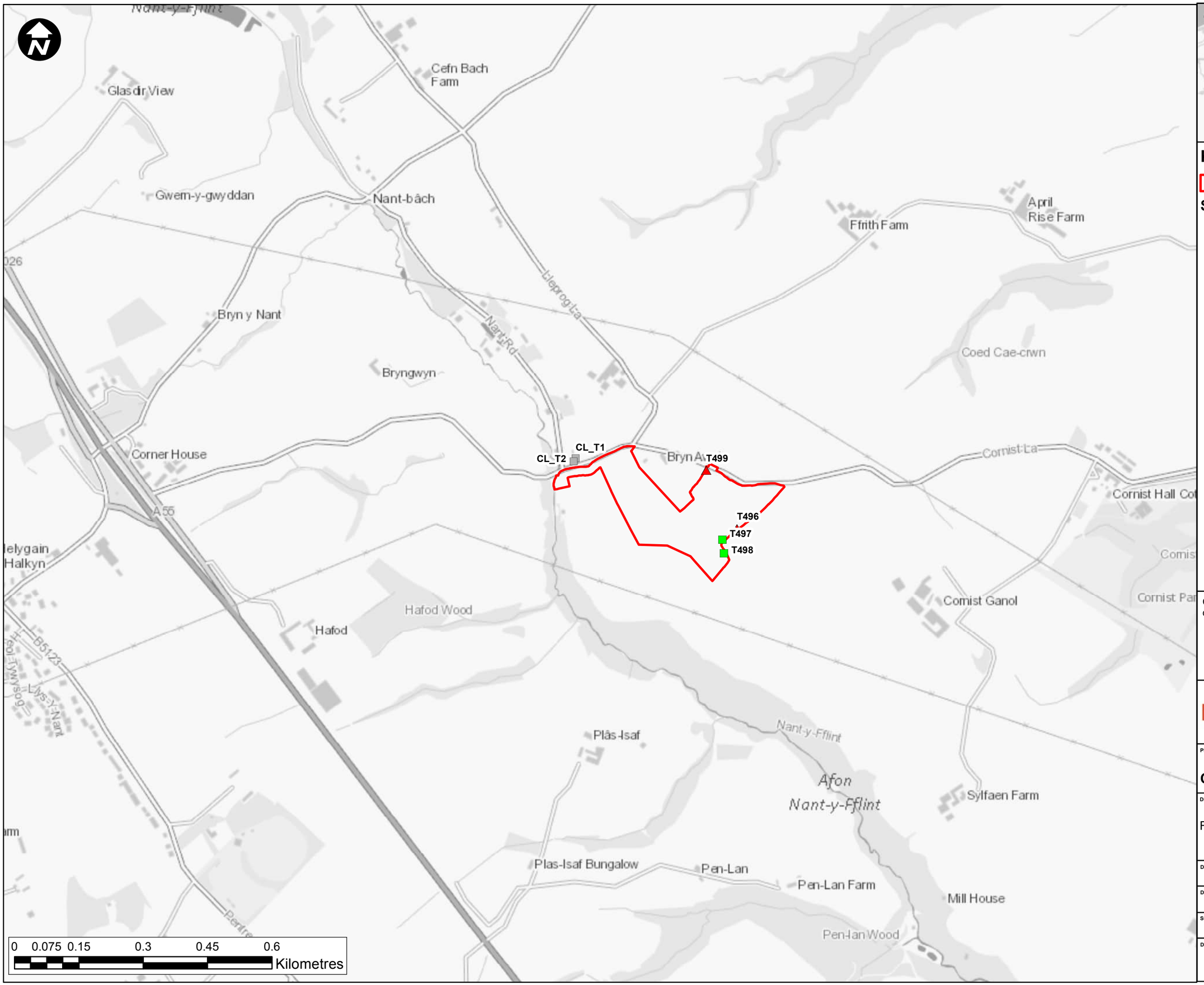

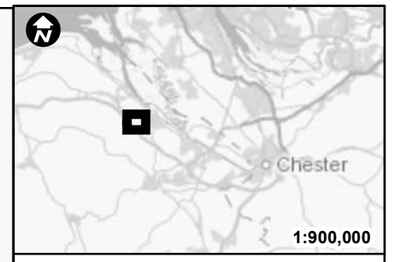

Key:

- Newbuild Infrastructure Boundary

Suitability

- Low
- N/A - Outside NIB
- Precautionary Confirmed Roost

HyNet North West

PROJECT TITLE
HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 7 of 9

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

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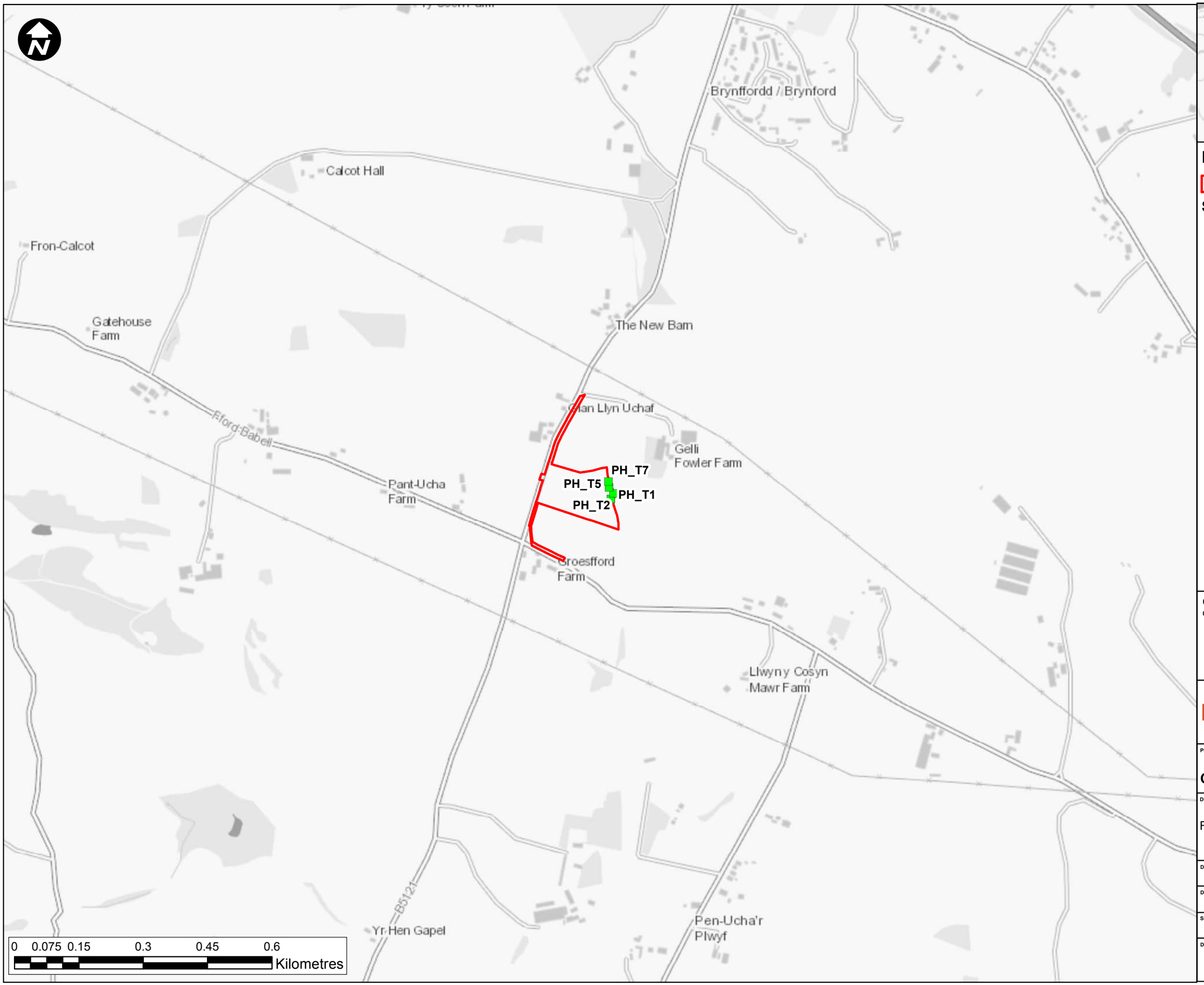

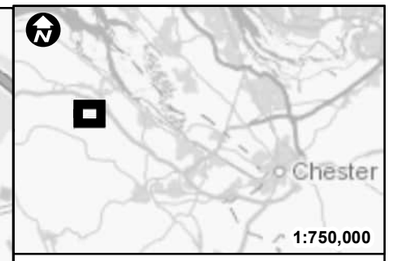

Key:

Newbuild Infrastructure Boundary

Suitability

Low

HyNet North West

PROJECT TITLE

HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 8 of 9

DRAWING STATUS

FOR DESIGN CHANGE REQUEST 1

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SCALE @ A3 SIZE	DATE	REVISION
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EN070007-APP-ES-9.3.2 Sheet 8

Key:

Newbuild Infrastructure Boundary

Suitability

- Likely absent - High
- Likely absent - Moderate
- Low

HyNet North West

PROJECT TITLE

HyNet North West Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 9 of 9

DRAWING STATUS

FOR DESIGN CHANGE REQUEST 1

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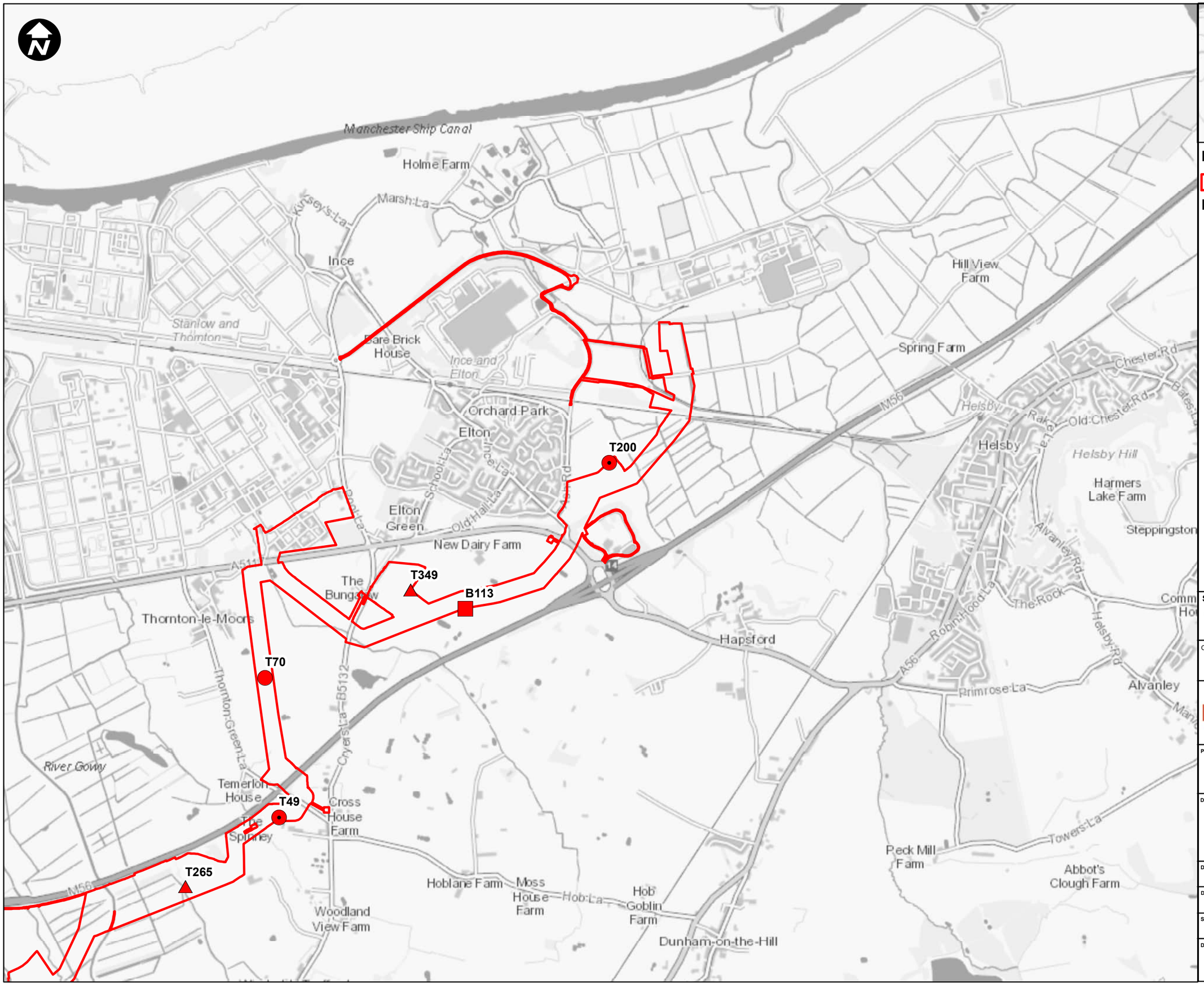

Key:

- Newbuild Infrastructure Boundary

Bat Roosts

- Day roost (Tree)
- Day roost (Building)
- Potential day roost (Tree)
- Precautionary Confirmed Roost

SCALE:
0 200 400 800 Metres

HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.3
Confirmed Bat Roosts
Sheet 1 of 6

DRAWING STATUS
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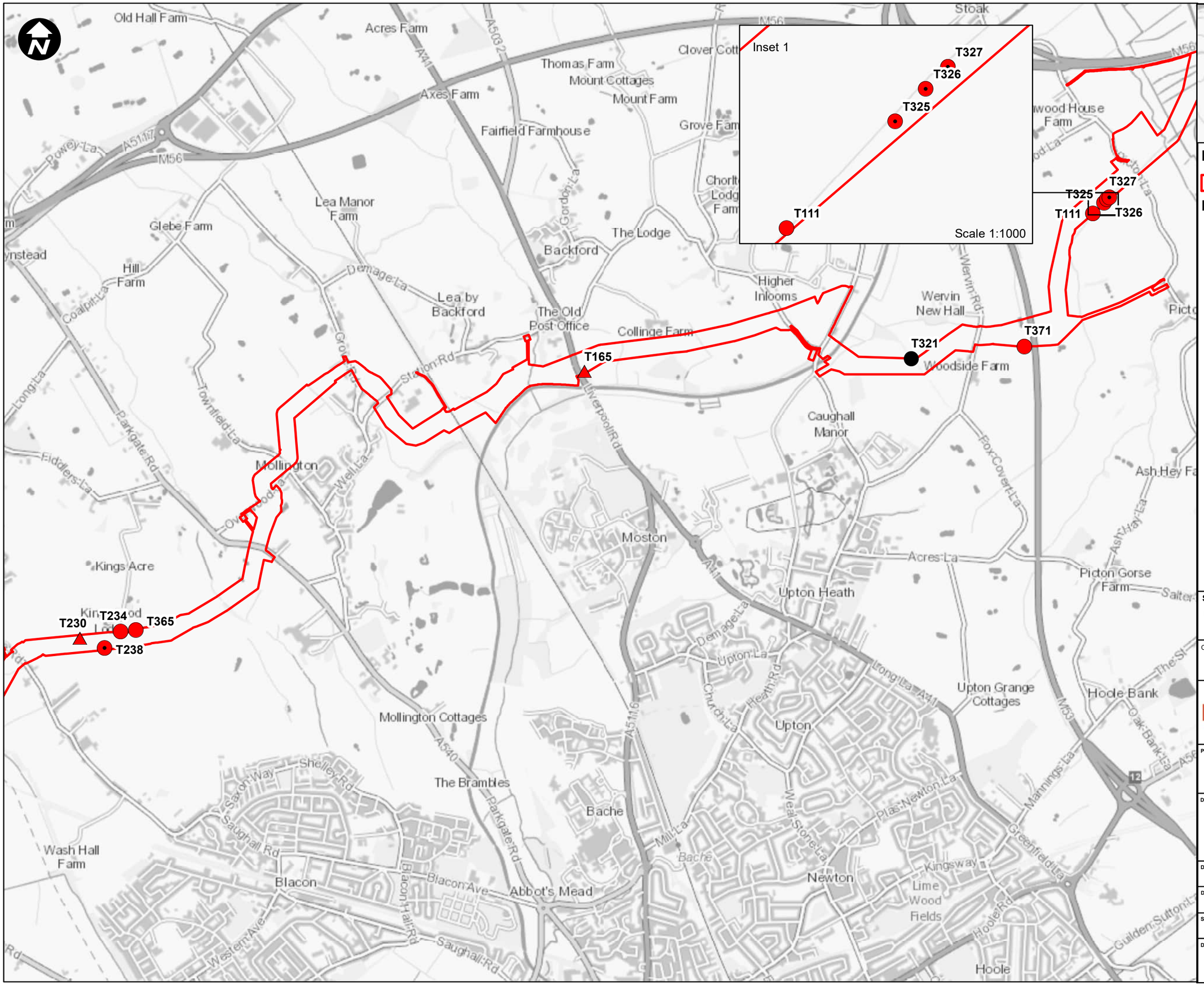
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T321
T165
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T234
T365
T238
Old Hall Farm
Acres Farm
Thomas Farm
Mount Cottages
Mount Farm
Axes Farm
Fairfield Farmhouse
Grove Farm
Lea Manor Farm
Glebe Farm
Hill Farm
Backford
The Lodge
Lea by Backford
The Old Post Office
Collinge Farm
Higher Inlooms
Wervin New Hall
Woodside Farm
Caughall Manor
Mollington
Kings Acre
Mollington Cottages
The Brambles
Bache
Wash Hall Farm
Blacon
Abbot's Mead
Moston
Upton Heath
Upton
Upton Grange Cottages
Picton Gorse Farm
Hoole Bank
Newton
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Ash Hey Farm
Stoak
Chester
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Key:
Newbuild Infrastructure Boundary
Bat Roosts
Day roost (Tree)
Maternity roost (Tree)
Potential day roost (Tree)
Precautionary Confirmed Roost
SCALE:
0 200 400 800
Metres
Contains OS data © Crown Copyright and database right 2020
HyNet North West
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO
DRAWING TITLE
Figure 9.3.3
Confirmed Bat Roosts
Sheet 2 of 6
DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1
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CHECKED JH
APPROVED DC
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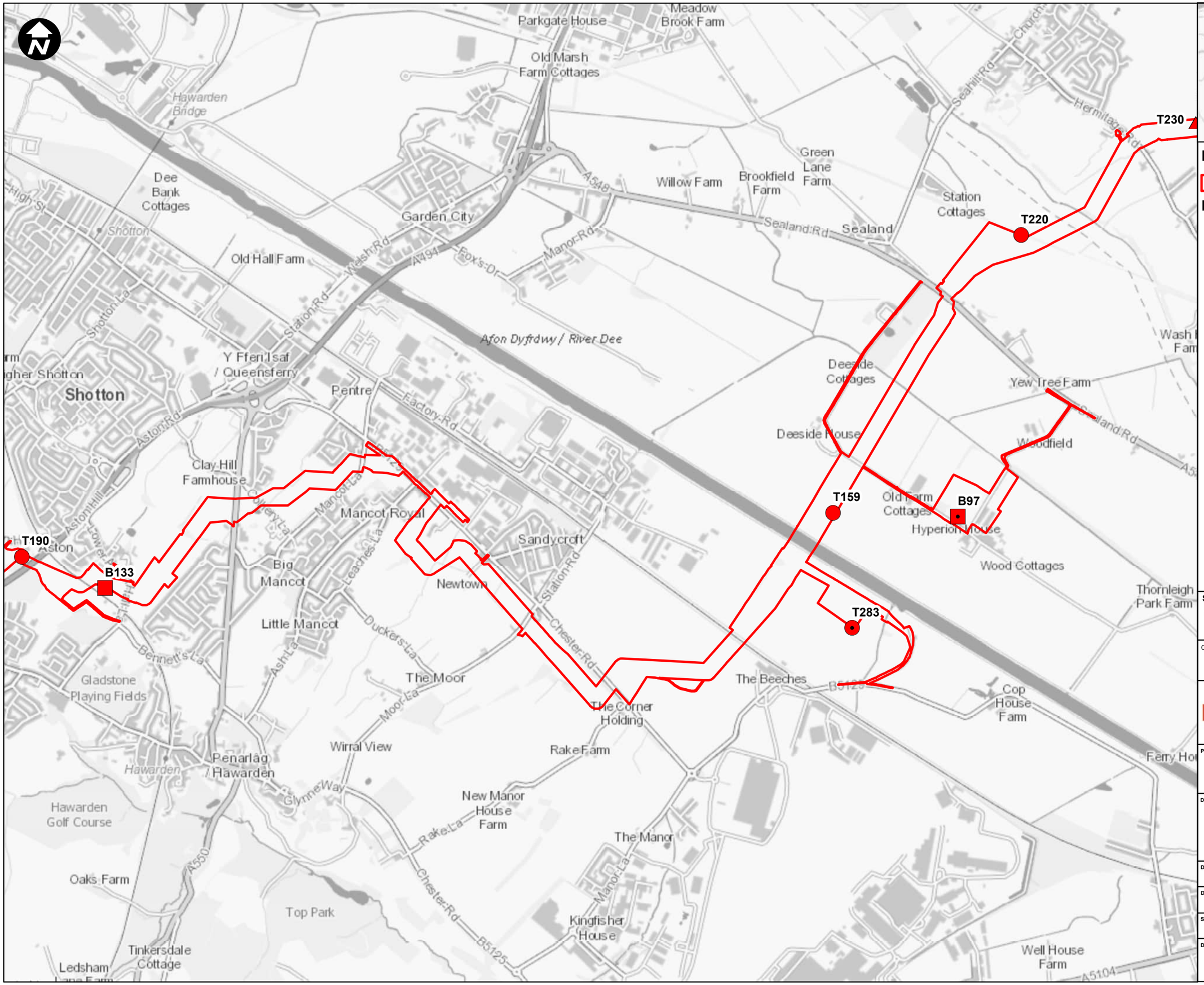
DATE 23/03/2023
REVISION C
DRAWING NUMBER
EN070007-APP-ES-9.3.3-Sheet 2



Key:

- Newbuild Infrastructure Boundary

Bat Roosts

- Day roost (Tree)
- Day roost (Building)
- Potential day roost (Building)
- Potential day roost (Tree)
- Precautionary Confirmed Roost

SCALE:
0 200 400 800 Metres

HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.3
Confirmed Bat Roosts
Sheet 3 of 6

DRAWING STATUS
FOR DESIGN CHANGE REQUEST 1

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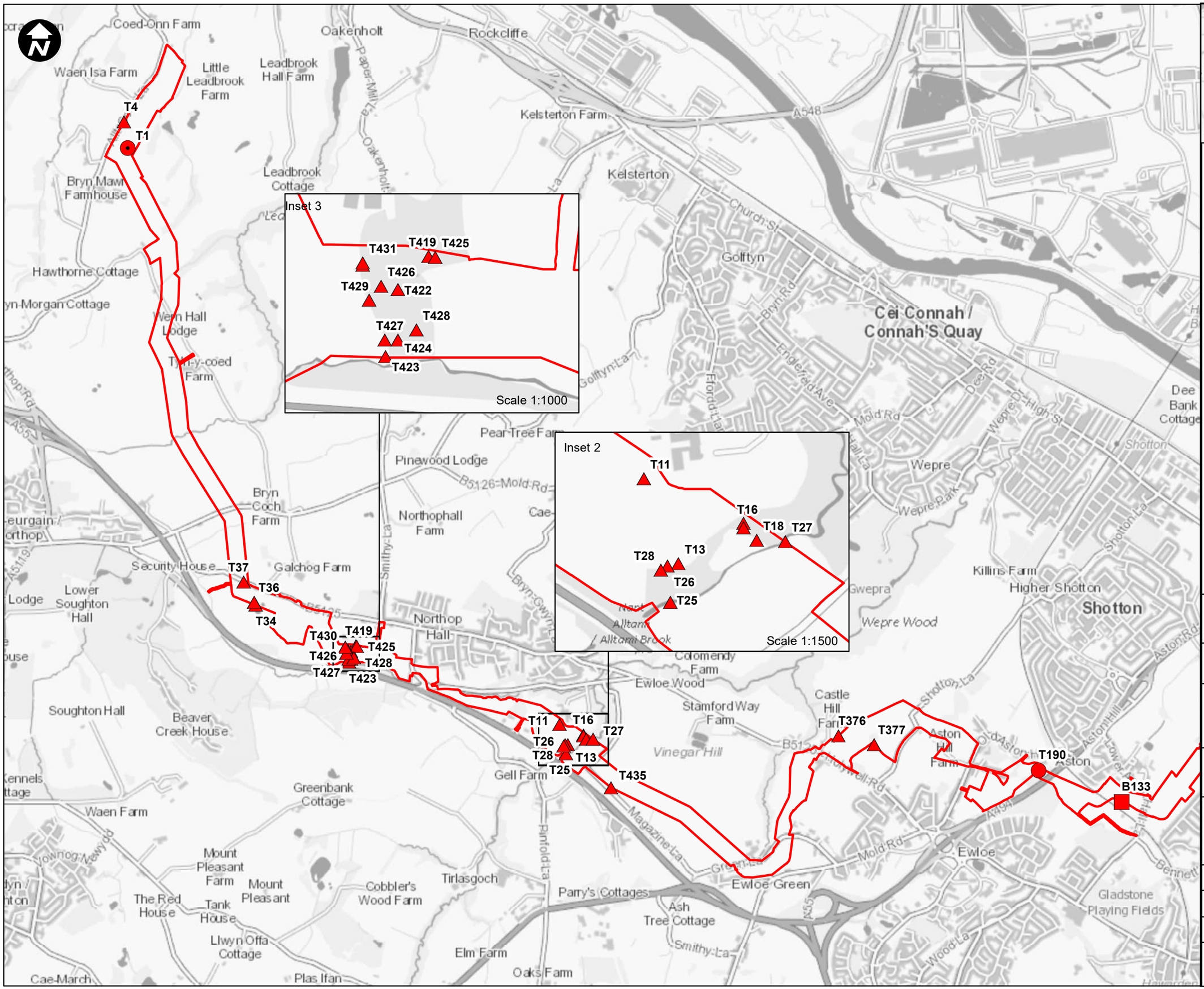
EN070007-APP-ES-9.3.3-Sheet 3



Key:

- Newbuild Infrastructure Boundary

Bat Roosts

- Day roost (Tree)
- Day roost (Building)
- Potential day roost (Tree)
- Precautionary Confirmed Roost

SCALE:

0 200 400 800 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.3
Confirmed Bat Roosts
Sheet 4 of 6

DRAWING STATUS

FOR DESIGN CHANGE REQUEST 1

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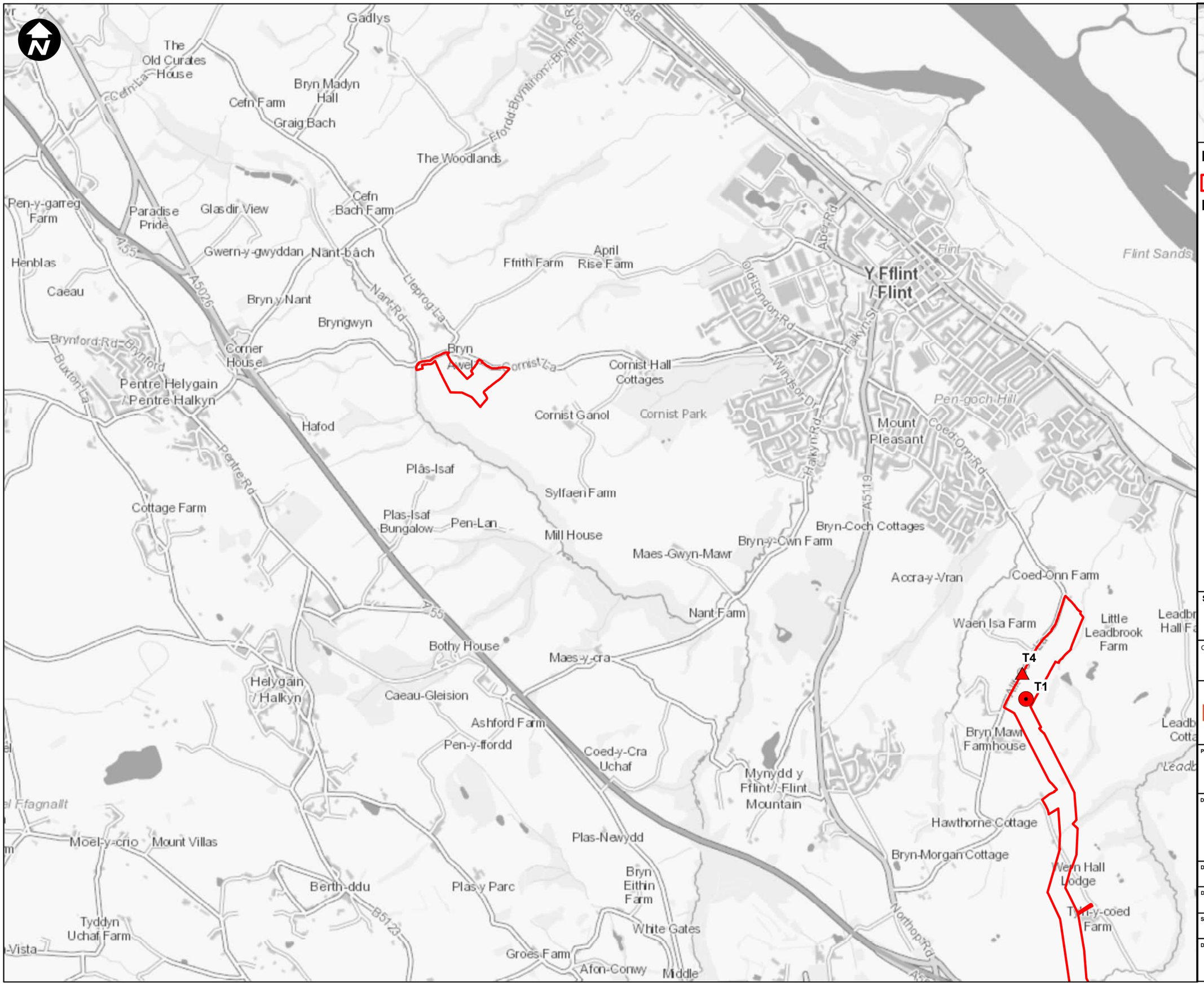
EN070007-APP-ES-9.3.3-Sheet 4



Key:

Newbuild Infrastructure Boundary

Bat Roosts

Potential day roost (Tree)

Precautionary Confirmed Roost

SCALE:

0 200 400 800 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.3
Confirmed Bat Roosts
Sheet 5 of 6

DRAWING STATUS

FOR DESIGN CHANGE REQUEST 1

DRAWN	CHECKED	APPROVED	AUTHORISED
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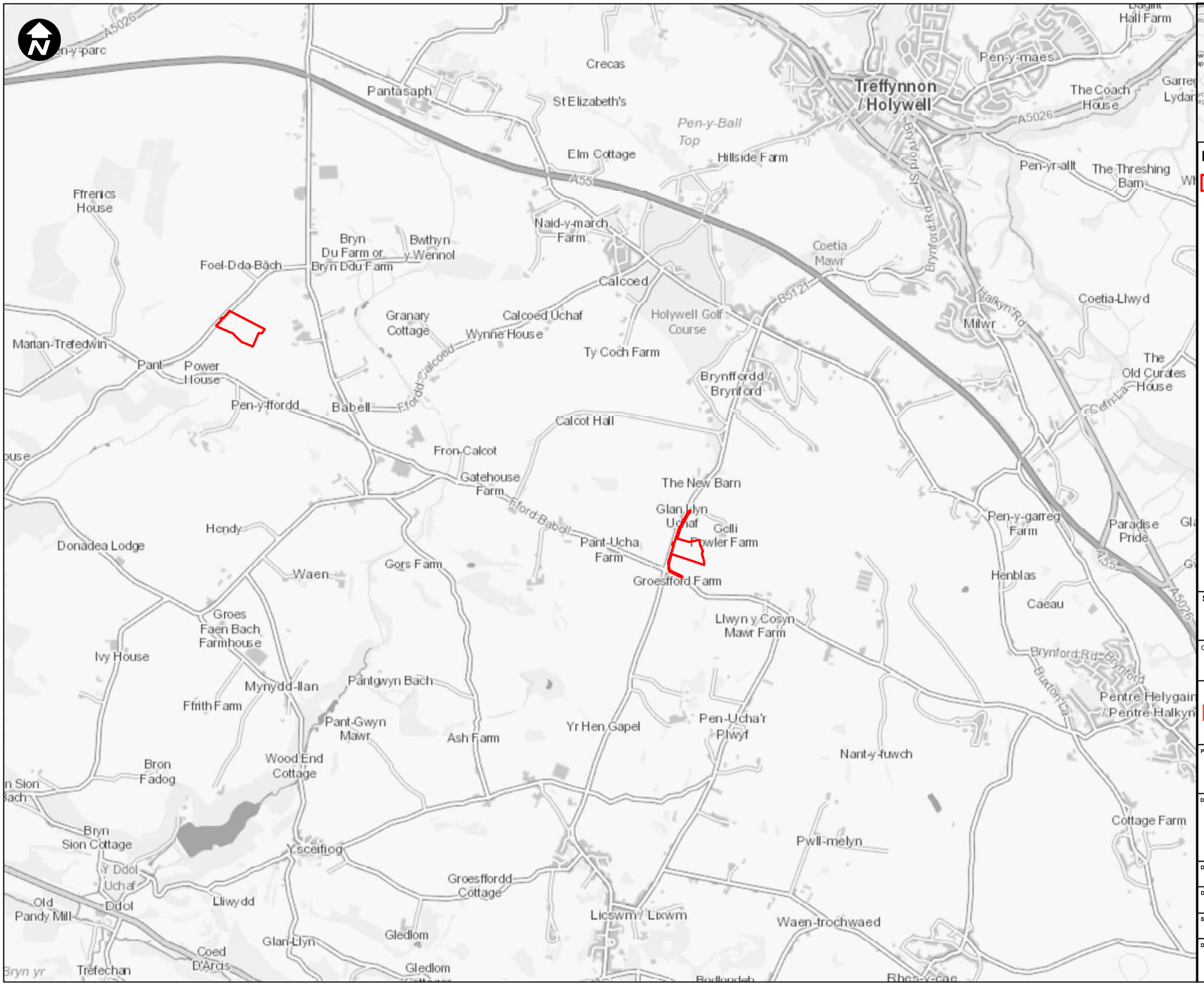
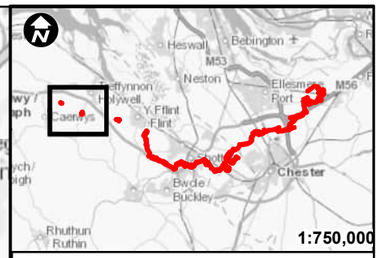
EN070007-APP-ES-9.3.3-Sheet 5





Key:

Newbuild Infrastructure Boundary

SCALE:

0 200 400 800 Metres

HyNet North West

PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.3
Confirmed Bat Roosts
Sheet 6 of 6

DRAWING STATUS

FOR DESIGN CHANGE REQUEST 1

DRAWN	CHECKED	APPROVED	AUTHORISED
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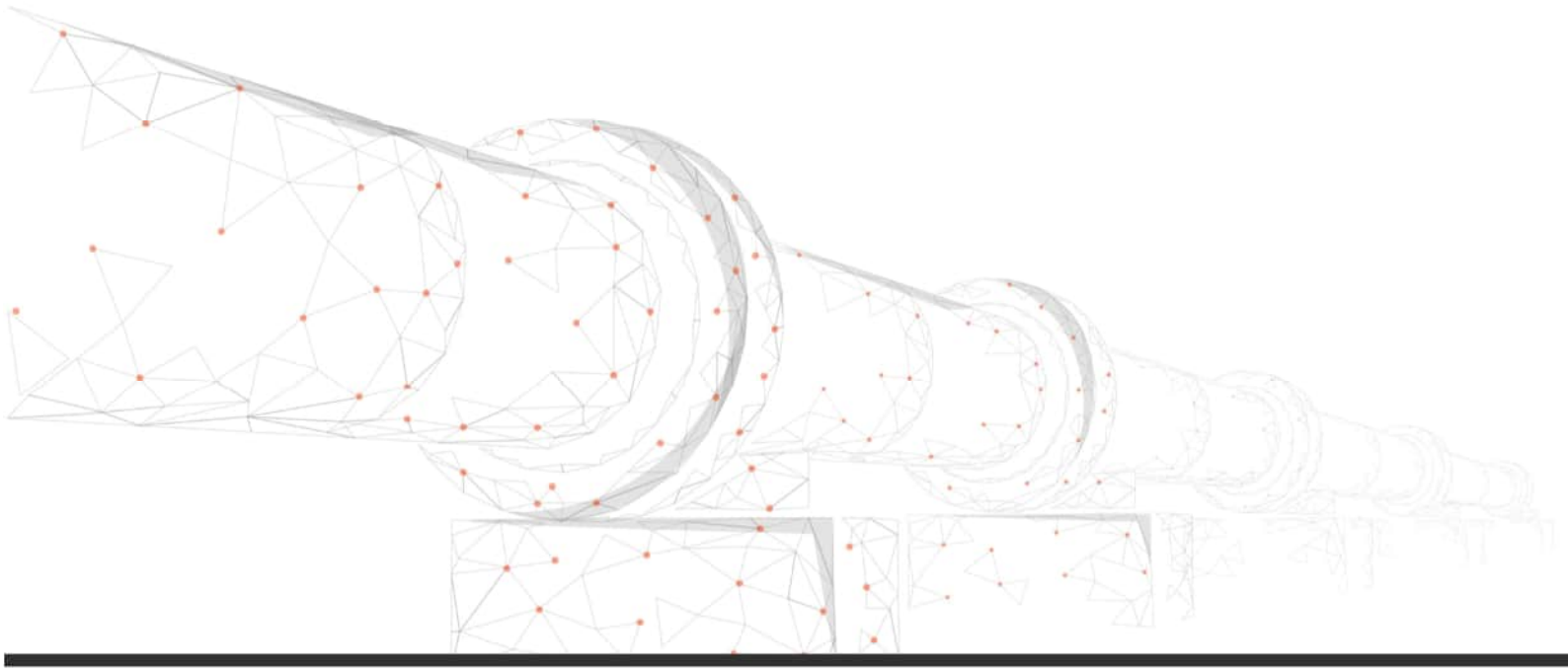
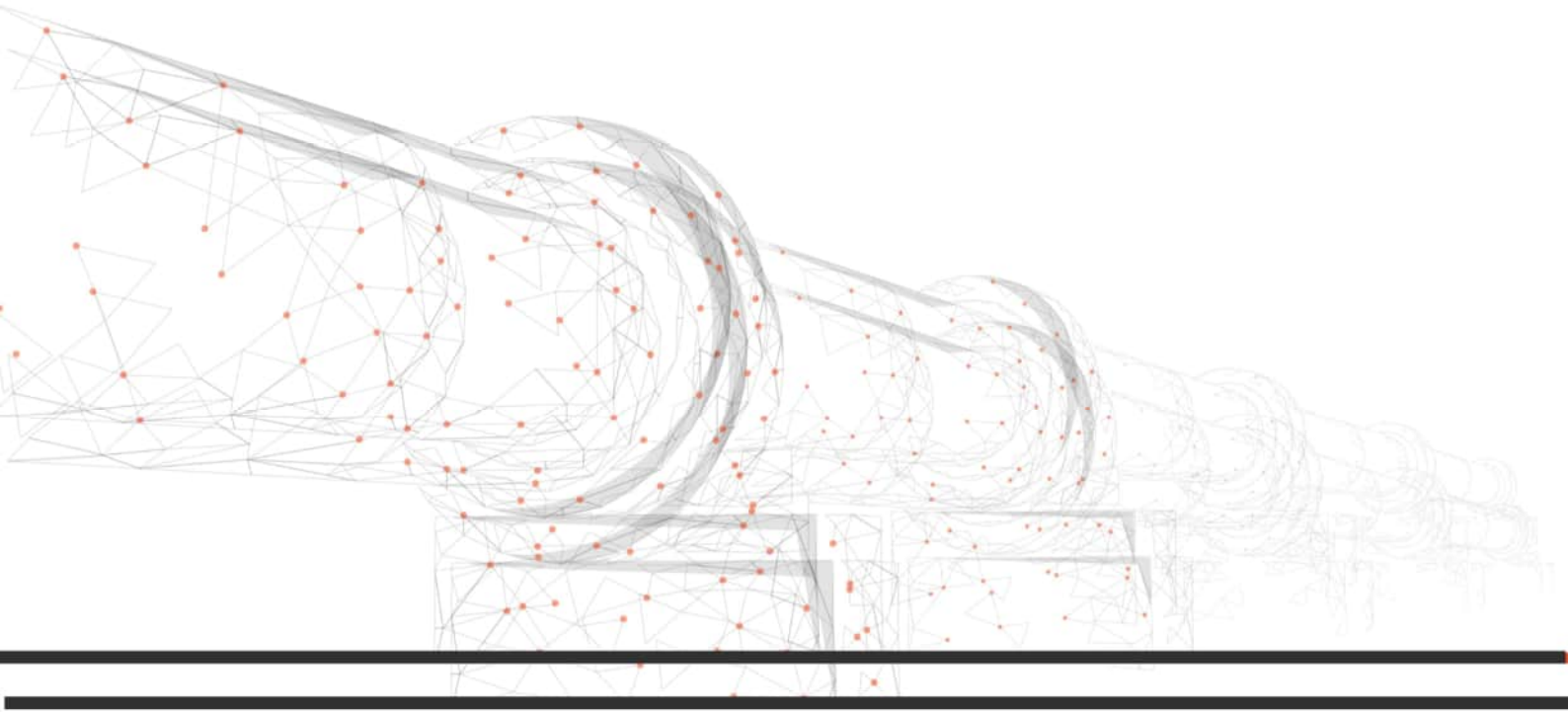
EN070007-APP-ES-9.3.3-Sheet 6





Annex B

DESK STUDY RESULT

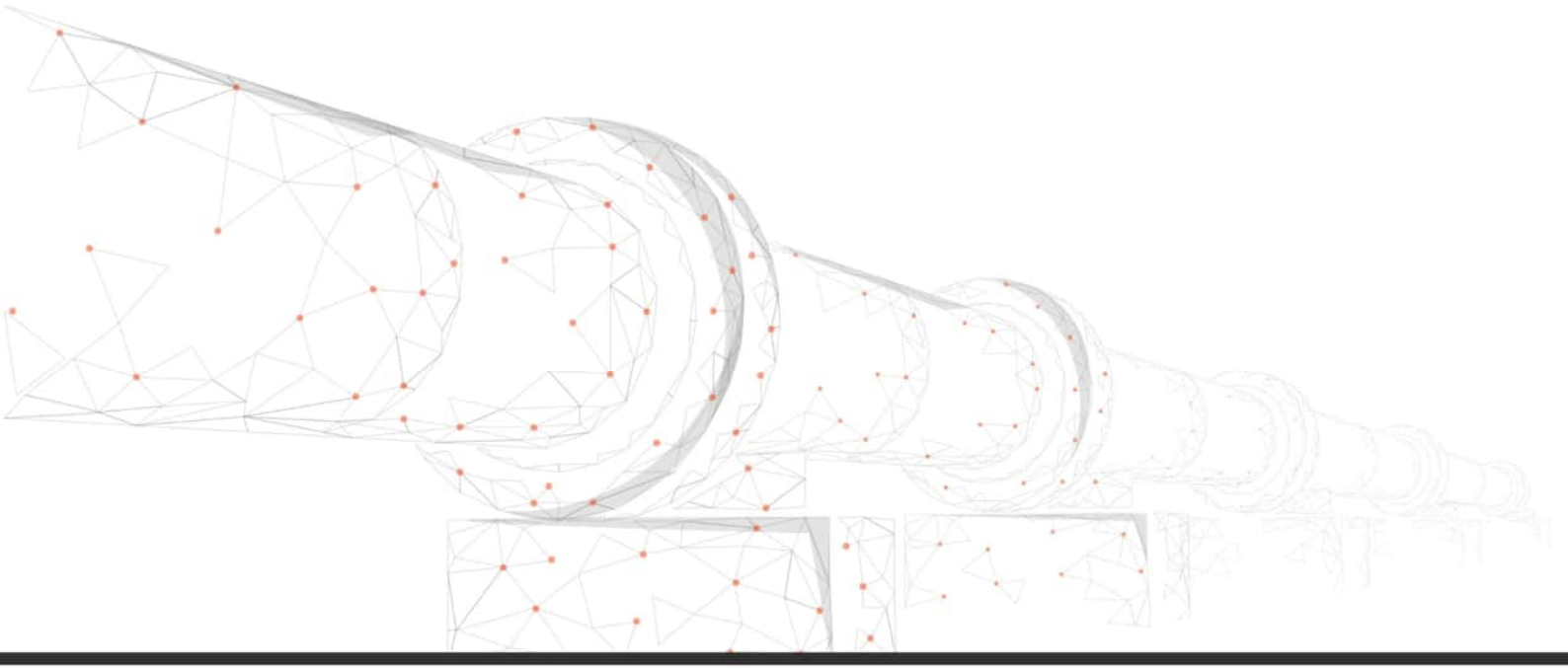


Table 4 – Desk Study Results – Records of Bats within 5 km of the Newbuild Infrastructure Boundary

Latin Name	Common Name	Date	Distance from Site	Record Details
Plecotus auritus	Brown Long-eared Bat	22/08/2017	0.03km west	Aural Bat Detector - Pass
Pipistrellus pipistrellus	Common Pipistrelle	3 records, between 15/07/2012 and 17/07/2014	0.04km northeast	HT: Detector - heterodyne
Pipistrellus pipistrellus	Common Pipistrelle	3 records, between 15/07/2012 and 17/07/2014	0.06km northeast	HT: Detector - heterodyne
Pipistrellus pipistrellus agg.	Pipistrelle agg.	2 records, between 15/07/2012 and 29/07/2012	0.06km northeast	HT: Detector - heterodyne
Pipistrellus pygmaeus	Soprano Pipistrelle	2 records, between 15/07/2012 and 29/07/2012	0.06km northeast	HT: Detector - heterodyne
Pipistrellus pipistrellus	Common Pipistrelle	09/08/2017	0.06km south	Aural Bat Detector - Pass
Pipistrellus pipistrellus	Common Pipistrelle	05/07/2017	0.06km south	Aural Bat Detector - Pass
Pipistrellus pipistrellus	Common Pipistrelle	22/08/2017	0.06km south	Aural Bat Detector - Pass
Pipistrellus pygmaeus	Soprano Pipistrelle	22/08/2017	0.06km south	Aural Bat Detector - Pass
Pipistrellus pipistrellus	Common Pipistrelle	01/08/2019	0.08km east	Roosting in buildings
Pipistrellus pygmaeus	Soprano Pipistrelle	01/08/2019	0.08km east	Roosting in buildings
Rhinolophus hipposideros	Lesser Horseshoe Bat	01/08/2019	0.08km east	Roosting in buildings
Pipistrellus pipistrellus	Common Pipistrelle	19/10/2018	0.13km southeast	Flying round house at dusk
Pipistrellus pipistrellus	Common Pipistrelle	19/10/2018	0.13km southeast	Flying round house at dusk
Pipistrellus pygmaeus	Soprano Pipistrelle	09/08/2017	0.15km southeast	Pass (Bat)
Myotis	Unidentified Bat	22/08/2017	0.16km southeast	Aural Bat Detector - Pass
Myotis	Unidentified Bat	09/08/2017	0.16km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	05/07/2017	0.16km southeast	Aural Bat Detector - Pass
Pipistrellus	Pipistrellus Bat Species	18/06/2012	0.22km southwest	Small number of droppings
Nyctalus noctula	Noctule Bat	15/06/2013	0.23km south	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	15/06/2013	0.27km south	Aural Bat Detector
Myotis	Unidentified Bat	15/06/2013	0.27km south	Aural Bat Detector
Rhinolophus hipposideros	Lesser Horseshoe Bat	06/06/2016	0.29km south	None
Nyctalus noctula	Noctule Bat	06/06/2016	0.29km south	None
Pipistrellus pipistrellus	Common Pipistrelle	06/06/2016	0.29km south	None
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2016	0.31km southeast	Field Record
Nyctalus noctula	Noctule Bat	30/08/2016	0.31km southeast	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	30/08/2016	0.31km southeast	Field Record
Chiroptera	Unknown Bat	13/08/2012	0.33km northwest	HT: Detector - heterodyne
Myotis daubentonii	Daubenton's Bat	13/08/2012	0.33km northwest	HT: Detector - heterodyne
Pipistrellus pipistrellus	Common Pipistrelle	01/05/2012	0.33km northwest	Emergence observation
Plecotus auritus	Brown Long-eared Bat	01/05/2012	0.33km northwest	Observed in roof

Latin Name	Common Name	Date	Distance from Site	Record Details
Myotis	Unidentified Bat	05/07/2017	0.34km east	Aural Bat Detector - Pass
Pipistrellus pipistrellus	Common Pipistrelle	24/04/2013	0.39km northwest	Foraging
Pipistrellus pipistrellus	Common Pipistrelle	24/04/2014	0.39km northwest	Foraging
Pipistrellus pipistrellus	Common Pipistrelle	04/07/2012	0.48km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	30/07/2012	0.48km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	20/08/2012	0.53km west	Field Record
Plecotus auritus	Brown Long-eared Bat	20/08/2012	0.53km west	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	20/08/2012	0.53km west	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	16/08/2012	0.54km north	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	13/08/2012	0.54km north	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	06/08/2012	0.54km north	Field Record
Myotis	Unidentified Bat	06/08/2012	0.54km north	Field Record
Myotis	Unidentified Bat	13/08/2012	0.54km north	Field Record
Myotis	Unidentified Bat	16/08/2012	0.54km north	Field Record
Plecotus auritus	Brown Long-eared Bat	06/08/2012	0.54km north	Field Record
Plecotus auritus	Brown Long-eared Bat	13/08/2012	0.54km north	Field Record
Plecotus auritus	Brown Long-eared Bat	16/08/2012	0.54km north	Field Record
Nyctalus noctula	Noctule Bat	06/08/2012	0.54km north	Field Record
Nyctalus noctula	Noctule Bat	16/08/2012	0.54km north	Field Record
Nyctalus noctula	Noctule Bat	13/08/2012	0.54km north	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	13/08/2012	0.54km north	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	16/08/2012	0.54km north	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	06/08/2012	0.54km north	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	15/06/2013	0.54km south	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	13/08/2019	0.59km east	Roost
Pipistrellus pipistrellus	Common Pipistrelle	20/07/2014	0.59km north	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	24/06/2014	0.59km north	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	02/07/2014	0.59km north	Field Record
Plecotus auritus	Brown Long-eared Bat	24/06/2014	0.59km north	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	24/06/2014	0.59km north	Field Record
Pipistrellus	Pipistrelle Bat species	11/03/2020	0.69km south	Roost
Pipistrellus	Pipistrelle Bat species	12/03/2020	0.69km south	Roost
Pipistrellus	Pipistrelle Bat species	08/04/2019	0.69km south	Field Record

Latin Name	Common Name	Date	Distance from Site	Record Details
Plecotus auritus	Brown Long-eared Bat	01/12/2017	0.6km north	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	28/08/2018	0.6km southeast	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	04/09/2018	0.6km southeast	Aural Bat Detector
Myotis	Unidentified Bat	04/09/2018	0.6km southeast	Aural Bat Detector
Myotis	Unidentified Bat	16/08/2018	0.6km southeast	Aural Bat Detector
Plecotus auritus	Brown Long-eared Bat	16/08/2018	0.6km southeast	Field Record
Plecotus auritus	Brown Long-eared Bat	28/08/2018	0.6km southeast	Aural Bat Detector
Nyctalus noctula	Noctule Bat	04/09/2018	0.6km southeast	Aural Bat Detector
Nyctalus noctula	Noctule Bat	28/08/2018	0.6km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	16/08/2018	0.6km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	04/09/2018	0.6km southeast	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	16/08/2018	0.6km southeast	Aural Bat Detector
Nyctalus noctula	Noctule Bat	16/08/2018	0.6km southeast	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	23/06/2017	0.71km southeast	Commuting
Pipistrellus pipistrellus	Common Pipistrelle	01/07/2017	0.71km southeast	Commuting
Nyctalus noctula	Noctule Bat	23/06/2017	0.71km southeast	Commuting
Pipistrellus pygmaeus	Soprano Pipistrelle	01/07/2017	0.71km southeast	Commuting
Myotis	Unidentified Bat	09/07/2019	0.74km south	Pass (Bat)
Myotis	Unidentified Bat	25/07/2019	0.74km south	Bat Detector (Heterodyne)
Plecotus auritus	Brown Long-eared Bat	25/07/2019	0.74km south	Bat Detector (Heterodyne)
Plecotus auritus	Brown Long-eared Bat	09/07/2019	0.74km south	Pass (Bat)
Pipistrellus pygmaeus	Soprano Pipistrelle	17/07/2019	0.74km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	19/06/2019	0.74km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	25/07/2019	0.74km south	Bat Detector (Heterodyne) - Emergence
Pipistrellus pygmaeus	Soprano Pipistrelle	09/07/2019	0.74km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	02/07/2019	0.74km south	Bat Detector (Heterodyne) - Emergence
Pipistrellus pipistrellus	Pipistrelle	25/07/2019	0.74km south	Pass (Bat)
Pipistrellus pipistrellus	Pipistrelle	09/07/2019	0.74km south	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Pipistrelle	19/06/2019	0.74km south	Field Record
Nyctalus noctula	Noctule Bat	12/09/2019	0.74km southeast	Survey - Post Dusk
Pipistrellus pygmaeus	Soprano Pipistrelle	12/09/2019	0.74km southeast	Survey - Post Dusk
Plecotus auritus	Brown Long-eared Bat	11/03/2020	0.79km south	Roost
Pipistrellus pipistrellus	Common Pipistrelle	06/09/2014	0.83km south	Field Record

Latin Name	Common Name	Date	Distance from Site	Record Details
Plecotus auritus	Brown Long-eared Bat	11/08/2016	0.83km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	24/05/2016	0.83km south	Field Record
Plecotus auritus	Brown Long-eared Bat	06/09/2014	0.83km south	Aural Bat Detector
Nyctalus noctula	Noctule Bat	06/09/2014	0.83km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	06/09/2014	0.83km south	Field Record
Myotis daubentonii	Daubenton's Bat	06/09/2014	0.83km south	Field Record
Plecotus auritus	Brown Long-eared Bat	01/05/2015	0.83km south	Pass (Bat)
Pipistrellus pygmaeus	Soprano Pipistrelle	01/05/2015	0.83km south	Pass (Bat)
Myotis nattereri	Natterer's Bat	01/05/2015	0.83km south	Pass (Bat)
Myotis mystacinus/brandtii	Whiskered/Brandt's Bat	01/05/2015	0.83km south	Pass (Bat)
Pipistrellus pipistrellus	Common Pipistrelle	01/05/2015	0.84km south	Pass (Bat)
Eptesicus serotinus	Serotine	01/05/2015	0.84km south	Pass (Bat)
Plecotus auritus	Brown Long-eared Bat	04/07/2012	0.86km northwest	Bat Roost
Myotis	Unidentified Bat	29/05/2019	0.8km south	Pass (Bat)
Plecotus auritus	Brown Long-eared Bat	18/06/2019	0.8km south	Field Record
Plecotus auritus	Brown Long-eared Bat	29/05/2019	0.8km south	Bat Detector (Heterodyne) - Emergence
Plecotus auritus	Brown Long-eared Bat	02/07/2019	0.8km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	29/05/2019	0.8km south	Pass (Bat)
Pipistrellus pygmaeus	Soprano Pipistrelle	02/07/2019	0.8km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	18/06/2019	0.8km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	18/06/2019	0.8km south	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Pipistrelle	29/05/2019	0.8km south	Pass (Bat)
Pipistrellus pipistrellus	Pipistrelle	02/07/2019	0.8km south	Field Record
Plecotus auritus	Brown Long-eared Bat	03/04/2019	0.8km south	Field Record
Nyctalus noctula	Noctule Bat	01/05/2015	0.91km southeast	Pass (Bat)
Myotis daubentonii	Daubenton's Bat	01/05/2015	0.91km southeast	Pass (Bat)
Pipistrellus nathusii	Nathusius's Pipistrelle	01/05/2015	0.91km southeast	Pass (Bat)
Pipistrellus pipistrellus	Common Pipistrelle	18/04/2017	1.03km northwest	Commuting
Pipistrellus pipistrellus	Common Pipistrelle	04/05/2017	1.03km northwest	Foraging
Pipistrellus pygmaeus	Soprano Pipistrelle	18/04/2017	1.03km northwest	Commuting
Pipistrellus pygmaeus	Soprano Pipistrelle	04/05/2017	1.03km northwest	Foraging
Pipistrellus pipistrellus	Common Pipistrelle	12/07/2013	1.07km east	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	15/08/2013	1.07km east	Field Record

Latin Name	Common Name	Date	Distance from Site	Record Details
Pipistrellus pipistrellus	Common Pipistrelle	23/08/2013	1.07km east	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	11/07/2013	1.07km east	Field Record
Nyctalus noctula	Noctule Bat	11/07/2013	1.07km east	Field Record
Chiroptera	Unknown Bat	18/05/2017	1.10km south	None
Pipistrellus pipistrellus	Common Pipistrelle	04/07/2013	1.1km east	Field Record
Nyctalus noctula	Noctule Bat	04/07/2013	1.1km east	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	04/07/2013	1.1km east	Field Record
Myotis daubentonii	Daubenton's Bat	07/05/2019	1.22km southwest	Not Applicable
Pipistrellus	Pipistrellus Bat Species	22/04/2014	1.49km northwest	None
Pipistrellus pipistrellus	Common Pipistrelle	07/07/2013	1.59km southeast	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	08/07/2013	1.59km southeast	Aural Bat Detector
Chiroptera	Bats	08/07/2013	1.59km southeast	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	23/07/2013	1.61km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	23/07/2013	1.61km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	07/07/2013	1.61km southeast	Aural Bat Detector
Nyctalus noctula	Noctule Bat	08/10/2019	1.69km west	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	02/05/2016	1.72km northwest	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	15/07/2012	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	15/07/2012	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus agg.	Pipistrelle agg.	15/07/2012	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pygmaeus	Soprano Pipistrelle	29/07/2012	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	29/07/2012	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus agg.	Pipistrelle agg.	29/07/2012	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	17/07/2014	1.75km northeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	08/10/2019	1.79km west	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	05/05/2014	1.82km northwest	None
Myotis daubentonii	Daubenton's Bat	02/05/2016	1.83km northwest	Field Record
Plecotus auritus	Brown Long-eared Bat	03/07/2014	1.98km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	17/07/2014	1.98km south	Field Record
Nyctalus noctula	Noctule Bat	03/07/2014	1.98km south	Field Record
Nyctalus noctula	Noctule Bat	17/07/2014	1.98km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	03/07/2014	1.98km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	03/07/2014	1.98km south	Field Record

Latin Name	Common Name	Date	Distance from Site	Record Details
Pipistrellus pygmaeus	Soprano Pipistrelle	17/07/2014	1.98km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	16/07/2013	1.99km east	None
Plecotus auritus	Brown Long-eared Bat	02/06/2016	1.99km northwest	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	16/07/2013	2.04km east	None
Pipistrellus pipistrellus	Common Pipistrelle	26/06/2014	2.06km south	Field Record
Plecotus auritus	Brown Long-eared Bat	26/06/2014	2.06km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	21/08/2017	2.07km south	None
Pipistrellus pipistrellus	Common Pipistrelle	30/07/2014	2.08km north	Aural Bat Detector
Myotis	Unidentified Bat	30/07/2014	2.08km north	Aural Bat Detector
Plecotus auritus	Brown Long-eared Bat	30/07/2014	2.08km north	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	14/08/2014	2.09km north	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	29/08/2014	2.09km north	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	08/07/2014	2.09km north	Aural Bat Detector
Myotis	Unidentified Bat	08/07/2014	2.09km north	Aural Bat Detector
Nyctalus noctula	Noctule Bat	08/07/2014	2.09km north	Aural Bat Detector
Pipistrellus nathusii	Nathusius's Pipistrelle	08/07/2014	2.09km north	Aural Bat Detector
Nyctalus noctula	Noctule Bat	01/09/2017	2.12km south	None
Pipistrellus pygmaeus	Soprano Pipistrelle	01/09/2017	2.12km south	None
Myotis mystacinus/brandtii agg.	Whiskered/Brandt's Bat agg.	01/09/2017	2.12km south	None
Pipistrellus pipistrellus	Common Pipistrelle	01/09/2017	2.12km south	None
Myotis daubentonii	Daubenton's Bat	01/09/2017	2.12km south	None
Nyctalus noctula	Noctule Bat	01/08/2017	2.12km south	None
Pipistrellus pygmaeus	Soprano Pipistrelle	01/08/2017	2.12km south	None
Myotis mystacinus/brandtii agg.	Whiskered/Brandt's Bat agg.	01/08/2017	2.12km south	None
Pipistrellus pipistrellus	Common Pipistrelle	01/08/2017	2.12km south	None
Pipistrellus pipistrellus	Common Pipistrelle	16/07/2013	2.16km northeast	None
Pipistrellus pipistrellus	Common Pipistrelle	04/08/2017	2.17km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	04/08/2017	2.17km southeast	Aural Bat Detector
Plecotus auritus	Brown Long-eared Bat	29/06/2013	2.17km west	Bat Roost
Nyctalus noctula	Noctule Bat	01/07/2017	2.1km south	None
Nyctalus noctula	Noctule Bat	01/08/2017	2.1km south	None
Pipistrellus pygmaeus	Soprano Pipistrelle	01/08/2017	2.1km south	None
Myotis mystacinus/brandtii agg.	Whiskered/Brandt's Bat agg.	01/07/2017	2.1km south	None

Latin Name	Common Name	Date	Distance from Site	Record Details
Myotis mystacinus/brandtii agg.	Whiskered/Brandt's Bat agg.	01/08/2017	2.1km south	None
Pipistrellus pipistrellus	Common Pipistrelle	01/07/2017	2.1km south	None
Pipistrellus pipistrellus	Common Pipistrelle	01/08/2017	2.1km south	None
Myotis daubentonii	Daubenton's Bat	01/07/2017	2.1km south	None
Myotis nattereri	Natterer's Bat	01/07/2017	2.1km south	None
Pipistrellus pipistrellus	Common Pipistrelle	11/07/2018	2.25km southwest	Live Sighting
Pipistrellus pipistrellus	Common Pipistrelle	12/09/2016	2.27km south	None
Myotis daubentonii	Daubenton's Bat	21/03/2019	2.2km east	None
Pipistrellus pipistrellus	Common Pipistrelle	29/08/2013	2.32km north	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/07/2013	2.32km north	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	22/09/2013	2.32km north	Aural Bat Detector
Nyctalus noctula	Noctule Bat	29/08/2013	2.32km north	Aural Bat Detector
Nyctalus noctula	Noctule Bat	22/09/2013	2.32km north	Aural Bat Detector
Nyctalus noctula	Noctule Bat	30/07/2013	2.32km north	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	29/08/2013	2.32km north	Aural Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	04/09/2017	2.32km south	None
Pipistrellus pygmaeus	Soprano Pipistrelle	04/09/2017	2.32km south	None
Nyctalus noctula	Noctule Bat	04/09/2017	2.32km south	None
Myotis daubentonii	Daubenton's Bat	04/09/2017	2.32km south	None
Myotis nattereri	Natterer's Bat	04/09/2017	2.32km south	None
Plecotus auritus	Brown Long-eared Bat	01/08/2017	2.46km south	Bat Roost
Pipistrellus pipistrellus	Common Pipistrelle	05/07/2013	2.47km north	None
Pipistrellus pipistrellus	Common Pipistrelle	29/05/2020	2.48km southwest	None
Nyctalus noctula	Noctule Bat	04/09/2017	2.5km south	None
Pipistrellus	Pipistrellus Bat Species	09/08/2017	2.5km south	None
Chiroptera	Bats	14/05/2014	2.65km south	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Plecotus auritus	Brown Long-eared Bat	30/08/2018	2.65km southwest	Bat Detector
Nyctalus noctula	Noctule Bat	30/08/2018	2.65km southwest	Bat Detector
Plecotus auritus	Brown Long-eared Bat	01/09/2018	2.65km southwest	Bat Detector
Nyctalus noctula	Noctule Bat	01/09/2018	2.65km southwest	Bat Detector
Myotis nattereri	Natterer's Bat	01/09/2018	2.65km southwest	Bat Detector
Myotis	Myotis Bat Species	30/08/2018	2.65km southwest	Bat Detector

Latin Name	Common Name	Date	Distance from Site	Record Details
Myotis	Myotis Bat Species	01/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	01/09/2018	2.65km southwest	Bat Detector
Rhinolophus hipposideros	Lesser Horseshoe Bat	30/08/2018	2.65km southwest	Bat Detector
Rhinolophus hipposideros	Lesser Horseshoe Bat	30/08/2018	2.65km southwest	Bat Detector
Rhinolophus hipposideros	Lesser Horseshoe Bat	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Myotis	Myotis Bat Species	13/09/2018	2.65km southwest	Bat Detector
Myotis	Myotis Bat Species	13/09/2018	2.65km southwest	Bat Detector
Myotis	Myotis Bat Species	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	30/08/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector

Latin Name	Common Name	Date	Distance from Site	Record Details
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	01/09/2018	2.65km southwest	Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	13/09/2018	2.65km southwest	Bat Detector
Pipistrellus pipistrellus	Common Pipistrelle	15/04/2014	2.82km northwest	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	17/07/2017	2km south	None
Pipistrellus	Pipistrellus Bat Species	04/09/2017	2km south	None
Nyctalus noctula	Noctule Bat	01/07/2017	2km south	None
Pipistrellus pygmaeus	Soprano Pipistrelle	01/07/2017	2km south	None
Myotis mystacinus/brandtii agg.	Whiskered/Brandt's Bat agg.	01/07/2017	2km south	None
Pipistrellus pipistrellus	Common Pipistrelle	17/07/2017	2km south	None
Pipistrellus pipistrellus	Common Pipistrelle	01/07/2017	2km south	None
Myotis daubentonii	Daubenton's Bat	01/07/2017	2km south	None
Myotis mystacinus/brandtii agg.	Whiskered/Brandt's Bat agg.	01/08/2014	3.05km north	None
Rhinolophus hipposideros	Lesser Horseshoe Bat	14/07/2016	3.25km southwest	None
Nyctalus noctula	Noctule Bat	14/07/2016	3.25km southwest	None
Pipistrellus pipistrellus	Common Pipistrelle	14/07/2016	3.25km southwest	None
Pipistrellus pipistrellus	Common Pipistrelle	30/07/2014	3.26km south	Live Sighting
Pipistrellus pygmaeus	Soprano Pipistrelle	30/07/2014	3.26km south	Live Sighting
Myotis	Myotis Bat Species	30/07/2014	3.26km south	Live Sighting
Pipistrellus pipistrellus	Common Pipistrelle	01/09/2014	3.26km south	Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	01/09/2014	3.26km south	Bat Detector
Nyctalus noctula	Noctule Bat	01/09/2014	3.26km south	Bat Detector
Rhinolophus hipposideros	Lesser Horseshoe Bat	06/07/2014	3.26km south	Dung/Droppings/Frass/Pellet, etc.
Pipistrellus pipistrellus	Common Pipistrelle	11/06/2014	3.26km south	Live Sighting
Vespertilionidae	Bats	14/07/2018	3.28km northeast	None
Pipistrellus pipistrellus	Common Pipistrelle	16/08/2019	3.3km south	None
Myotis mystacinus	Whiskered Bat	13/05/2019	3.3km south	None
Vespertilionidae	Bats	11/07/2018	3.45km southwest	Live Sighting
Myotis	Unidentified Bat	25/04/2020	3.48km southeast	Field Record
Nyctalus noctula	Noctule Bat	22/06/2015	3.65km southwest	None

Latin Name	Common Name	Date	Distance from Site	Record Details
Pipistrellus pygmaeus	Soprano Pipistrelle	01/05/2015	3.65km southwest	None
Nyctalus noctula	Noctule Bat	01/05/2015	3.65km southwest	None
Rhinolophus hipposideros	Lesser Horseshoe Bat	01/05/2015	3.65km southwest	None
Myotis	Myotis Bat Species	22/06/2015	3.65km southwest	None
Myotis	Myotis Bat Species	01/05/2015	3.65km southwest	None
Pipistrellus pipistrellus	Common Pipistrelle	26/05/2015	3.65km southwest	None
Pipistrellus pipistrellus	Common Pipistrelle	22/06/2015	3.65km southwest	None
Pipistrellus pipistrellus	Common Pipistrelle	01/05/2015	3.65km southwest	None
Plecotus auritus	Brown Long-eared Bat	01/05/2015	3.65km southwest	None
Myotis	Myotis Bat Species	12/05/2016	3.85km south	Not Applicable
Pipistrellus pipistrellus	Common Pipistrelle	31/08/2018	4.01km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	01/05/2015	4.01km southeast	Roost
Pipistrellus pipistrellus	Pipistrelle	21/05/2012	4.05km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	03/06/2016	4.05km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	02/09/2017	4.05km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	01/09/2017	4.05km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	24/09/2017	4.05km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	15/05/2018	4.05km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	14/05/2018	4.05km south	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	01/08/2013	4.07km southeast	Aural Bat Detector
Plecotus auritus	Brown Long-eared Bat	01/08/2013	4.07km southeast	Aural Bat Detector
Nyctalus noctula	Noctule Bat	01/08/2013	4.07km southeast	Aural Bat Detector
Pipistrellus pygmaeus	Soprano Pipistrelle	01/08/2013	4.07km southeast	Aural Bat Detector
Myotis daubentonii	Daubenton's Bat	01/08/2013	4.07km southeast	Aural Bat Detector
Pipistrellus pipistrellus	Pipistrelle	15/05/2019	4.09km southeast	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Pipistrelle	25/04/2019	4.09km southeast	Bat Detector (Heterodyne) - Emergence
Pipistrellus pipistrellus	Pipistrelle	20/05/2019	4.09km southeast	Bat Detector (Heterodyne) - Emergence
Chiroptera	Bats	07/08/2015	4.23km northwest	Field Record
Pipistrellus pipistrellus	Pipistrelle	27/10/2014	4.32km southeast	Field Record
Pipistrellus pipistrellus	Common Pipistrelle	13/08/2018	4.36km northwest	Aural Bat Detector
Pipistrellus	Pipistrellus Bat Species	20/08/2018	4.3km south	Live Sighting
Pipistrellus pipistrellus	Common Pipistrelle	20/08/2018	4.3km south	Live Sighting
Pipistrellus pygmaeus	Soprano Pipistrelle	20/08/2018	4.3km south	Live Sighting

Latin Name	Common Name	Date	Distance from Site	Record Details
Rhinolophus hipposideros	Lesser Horseshoe Bat	24/06/2015	4.3km west	None
Pipistrellus pipistrellus agg.	Pipistrelle agg.	30/07/2012	4.46km southwest	Bat Detector (Heterodyne)
Pipistrellus pygmaeus	Soprano Pipistrelle	15/07/2012	4.46km southwest	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	15/07/2012	4.46km southwest	Bat Detector (Heterodyne)
Pipistrellus pygmaeus	Soprano Pipistrelle	30/07/2012	4.46km southwest	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	30/07/2012	4.46km southwest	Bat Detector (Heterodyne)
Pipistrellus pipistrellus	Common Pipistrelle	19/09/2012	4.47km southeast	Field Record
Pipistrellus pygmaeus	Soprano Pipistrelle	19/09/2012	4.47km southeast	Field Record
Pipistrellus pipistrellus	Pipistrelle	01/07/2018	4.4km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	01/08/2017	4.4km south	Field Record
Pipistrellus	Pipistrelle Bat species	01/09/2015	4.4km south	Field Record
Pipistrellus pipistrellus	Pipistrelle	02/05/2018	4.4km south	Field Record - Seen At Dusk
Pipistrellus pipistrellus	Pipistrelle	03/05/2018	4.4km south	Field Record - Seen At Dusk
Rhinolophus hipposideros	Lesser Horseshoe Bat	27/06/2012	4.56km west	Bat Roost
Chiroptera	Unknown Bat	11/07/2019	4.62km south	None
Rhinolophus hipposideros	Lesser Horseshoe Bat	24/06/2015	4.65km west	Bat Roost
Chiroptera	Unknown Bat	04/07/2012	4.83km southwest	None
Plecotus auritus	Brown Long-eared Bat	21/09/2012	4.84km northwest	Field Record
Plecotus auritus	Brown Long-eared Bat	19/09/2012	4.84km northwest	Pass (Bat)
Pipistrellus pygmaeus	Soprano Pipistrelle	21/09/2012	4.84km northwest	Pass (Bat)
Pipistrellus pipistrellus	Pipistrelle	20/09/2012	4.84km northwest	Field Record
Pipistrellus pipistrellus	Pipistrelle	19/09/2012	4.84km northwest	Pass (Bat)
Pipistrellus pipistrellus	Pipistrelle	22/09/2012	4.84km northwest	Field Record
Pipistrellus pipistrellus	Pipistrelle	21/09/2012	4.84km northwest	Pass (Bat)
Pipistrellus pygmaeus	Soprano Pipistrelle	10/09/2013	4.96km southeast	Field Record

Annex C

STRUCTURES SURVEY RESULTS

Table 5 – Structures Survey Results

Structure Reference	Grid ~~reference~~Reference	Structure Type	Suitability Following PRA	Emergence -Survey 1	Emergence/ Re-entry - Survey 2	Emergence/ Re-entry - Survey 3	Final Suitability
B1	SJ4451475002	Outbuilding	Negligible	Not Required	Not Required	Not Required	Negligible
B2	SJ4452274979	Brick utility building	Negligible	Not Required	Not Required	Not Required	Negligible
B3	SJ4482874979	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B4	SJ4451374906	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B6	SJ4456474875	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B8	SJ4456974875	Portacabin	Low	24/05/2022	Not Required	Not Required	Low
B9	SJ4456474883	Site cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B10	SJ4459974885	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B11	SJ4457774895	Site cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B12	SJ4468974871	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B13	SJ4460874885	Functioning storage outbuilding	Negligible	Not Required	Not Required	Not Required	Negligible
B14	SJ4463374979	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B15	SJ4466374865	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B16	SJ4471074938	Utilities cupboard	Negligible	Not Required	Not Required	Not Required	Negligible
B17	SJ4467674868	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B18	SJ4472874910	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B19	SJ4465374988	Toilets	Negligible	Not Required	Not Required	Not Required	Negligible
B20	SJ4473674929	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B21	SJ4468775022	Outbuilding	Negligible	Not Required	Not Required	Not Required	Negligible
B22	SJ4477974927	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B23	SJ4472075005	Active workshop	Negligible	Not Required	Not Required	Not Required	Negligible
B24	SJ4479074909	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B25	SJ4470774893	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B26	SJ4484474920	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B27	SJ4471374882	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B28	SJ4487174949	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B29	SJ4471874873	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B30	SJ4488274936	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible

Structure Reference	Grid ~~reference~~Reference	Structure Type	Suitability Following PRA	Emergence -Survey 1	Emergence/ Re-entry - Survey 2	Emergence/ Re-entry - Survey 3	Final Suitability
B31	SJ4471274919	Plastic utilities building	Negligible	Not Required	Not Required	Not Required	Negligible
B32	SJ4487874933	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B33	SJ4471774921	Plastic utilities building	Negligible	Not Required	Not Required	Not Required	Negligible
B34	SJ4489074943	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B35	SJ4474374933	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B36	SJ4479474961	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B37	SJ4475374953	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B38	SJ4478174956	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B39	SJ4475774945	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B40	SJ4476374961	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B41	SJ4476474899	Functioning storage outbuilding	Negligible	Not Required	Not Required	Not Required	Negligible
B42	SJ4477174992	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B43	SJ4478374905	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B44	SJ4476874990	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B45	SJ4478474916	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B46	SJ4476474988	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B47	SJ4479574934	Active storage building	Negligible	Not Required	Not Required	Not Required	Negligible
B48	SJ4476274986	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B49	SJ4481274959	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B50	SJ4475974982	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B51	SJ4481974950	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B52	SJ4475674980	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B53	SJ4482674940	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B54	SJ4475374977	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B55	SJ4482474956	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B56	SJ4474974975	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B57	SJ4483474943	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B58	SJ4474674973	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B59	SJ4482174960	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible

Structure Reference	Grid ~~reference~~Reference	Structure Type	Suitability Following PRA	Emergence -Survey 1	Emergence/ Re-entry - Survey 2	Emergence/ Re-entry - Survey 3	Final Suitability
B60	SJ4474374980	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B61	SJ4481974963	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B62	SJ4474274984	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B63	SJ4481674967	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B64	SJ4487374987	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B65	SJ4484174988	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B66	SJ4491274976	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B67	SJ4483874980	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B68	SJ4491874966	Industrial shed	Low	24/05/2022	Not Required	Not Required	Low
B69	SJ4486075004	Site cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B70	SJ4484974994	Site cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B71	SJ4476075019	Office cabin	Negligible	Not Required	Not Required	Not Required	Negligible
B72	SJ4481775062	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B73	SJ4477975034	Industrial shed	Negligible	Not Required	Not Required	Not Required	Negligible
B74	SJ4481575015	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B75	SJ4489474955	Portacabins	Negligible	Not Required	Not Required	Not Required	Negligible
B78	SJ3169467327	One storey lean-to	Negligible	Not Required	Not Required	Not Required	Negligible
B79	SJ3011366927	Shed	Moderate	18/08/2022	No access	Not Required	Precautionarily assessed as a Potential Roost
B80	SJ4449373279	Brick and concrete construction	Low	No access	Not Required	Not Required	Precautionarily assessed as a Potential Roost
B81	SJ4446173257	Barn	Negligible	Not Required	Not Required	Not Required	Negligible
B82	SJ4441173286	Field shelter	Low	26/05/2022	Not Required	Not Required	Low
B83	SJ4443773242	Portacabin	Negligible	Not Required	Not Required	Not Required	Negligible
B97	SJ3571567238	Outhouse	High	26/05/2022	09/06/2022	23/06/2022	Potential roost - Confirmed
B98	SJ3584867240	Storage Unit	Negligible	Not Required	Not Required	Not Required	Negligible
B99	SJ3588667185	Storage Unit	Negligible	Not Required	Not Required	Not Required	Negligible

Structure Reference	Grid ~~reference~~Reference	Structure Type	Suitability Following PRA	Emergence -Survey 1	Emergence/ Re-entry - Survey 2	Emergence/ Re-entry - Survey 3	Final Suitability
B113	SJ4570474535	Barn	Low	18/08/2021	25/05/2022	08/07/2022	Confirmed Roost
B122	SJ3854171078	Open Barn	Negligible	Not Required	Not Required	Not Required	Negligible
B123	SJ3856171094	Shed/Stables	Negligible	Not Required	Not Required	Not Required	Negligible
B124	SJ3860371123	Residential	Negligible	Not Required	Not Required	Not Required	Negligible
B125	SJ2635167716	Mineshaft brick cover	Moderate	No access		Not Required	Precautionarily assessed as a Potential Roost
B126	SJ2635167716	Outhouse	Moderate	No access		Not Required	Precautionarily assessed as a Potential Roost
B127	SJ2782766921	Chimney/Stack	Low	No access	Not Required	Not Required	Precautionarily assessed as a Potential Roost
B133	SJ3078466827	Barn	Moderate	25/05/2022	09/06/2022	To be completed as part of the pre-commencement surveys prior to construction, where required	Confirmed Roost

Annex D

TREE SURVEY RESULTS

Table 6 – Tree Survey Results

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
BB_T875	SJ1483474 569	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	04/05/2022	17/05/2022	Not Required	Likely absent - Moderate
BB_T876	SJ1478974 544	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	19/05/2022	07/06/2022	05/07/2022	Likely absent - High
BB_T874	SJ1483674 562	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T1	SJ1751373 246	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T2	SJ1751973 258	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T5	SJ1750973 272	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T7	SJ1750873 286	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T1	SJ2505570 594	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	30/06/2022	29/07/2022	To be completed as part of the pre-commencement surveys prior to construction	Potential Roost - Confirmed
T2	SJ2499570 674	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	30/06/2022	19/07/2022	Not Required	Likely absent - Moderate
T3	SJ2502270 612	Pedunculate oak Quercus robur	Moderate	24/05/2022	Negligible	Not Required	Not Required	Not Required	Negligible

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T4	SJ2503370 743	Pedunculate oak Quercus robur	High	Unable to be climbed	N/A	30/06/2022	19/07/2022	To be completed as part of the pre-commencement surveys prior to construction, where required	Precautionarily assessed as a Potential Roost
T5	SJ2493870 578	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T6	SJ2527571 181	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	02/09/2021	28/06/2022	Not Required	Likely absent - Moderate
T7	SJ2533071 132	Oak sp. Quercus sp.	Moderate	21/07/2021	Low	Not Required	Not Required	Not Required	Low
T8	SJ2534771 113	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	02/09/2021	28/06/2022	Not Required	Likely absent - Moderate
T9	SJ2535371 105	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	03/09/2021	29/06/2022	Not Required	Likely absent - Moderate
T11	SJ2754467 274	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T12	SJ2757067 228	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T13	SJ2759167 158	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T14	SJ2760667 172	Poplar Populus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T15	SJ2763767 134	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T16	SJ2768067 213	Beech Fagus sylvatica	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T17	SJ2768067 207	Beech Fagus sylvatica	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T18	SJ2769867 190	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T19	SJ2765467 217	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T20	SJ2777867 097	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T21	SJ2777367 094	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T22	SJ2774567 069	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T23	SJ2779267 112	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T24	SJ2757167 101	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T25	SJ2758067 105	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T26	SJ2757667 155	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T27	SJ2773767 188	Horse Chestnut Aesculus hippocastanum	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T28	SJ2756767 149	Sycamore Acer pseudoplatanus	High	Unable to be climbed	N/A	No access			Precautionarily assessed as a Potential Roost
T29	SJ2542868 867	Oak sp. Quercus sp.	Moderate	20/09/2021	Moderate	28/06/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T30	SJ2544868 895	Dead tree	Moderate	20/09/2021	Moderate	28/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T31	SJ2542968 918	Oak sp. Quercus sp.	Moderate	20/09/2021	Low	Not Required	Not Required	Not Required	Low
T32	SJ2542168 936	Oak sp. Quercus sp.	Moderate	20/09/2021	Low	Not Required	Not Required	Not Required	Low
T33	SJ2579567 959	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T34	SJ2579267 961	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T35	SJ2577867 968	Oak sp. Quercus sp.	Moderate	18/05/2021	Low	Not Required	Not Required	Not Required	Low
T36	SJ2578467 977	Oak sp. Quercus sp.	Moderate	18/05/2021	High	No access		Not Required – fully searched during tree climb survey	Precautionarily assessed as a Potential Roost
T37	SJ2572368 092	Oak sp. Quercus sp.	Moderate	18/05/2021	Moderate	Not Required – fully searched during tree climb survey	No access	Not Required	Precautionarily assessed as a Potential Roost
T38	SJ3292166 989	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T39	SJ3291966 994	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T40	SJ3260766 952	Oak sp. Quercus sp.	High	18/08//2021	Low	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T41	SJ3260766 956	Pedunculate oak Quercus robur	Moderate	18/08//2021	Moderate	14/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T42	SJ3265866 900	Oak sp. Quercus sp.	Moderate	05/08/2021	Moderate	14/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T43	SJ3260766 952	Pedunculate oak Quercus robur	High	18/08/2021	Low	Not Required	Not Required	Not Required	Low
T44	SJ4525874 517	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	07/06/2021	20/07/2021	Not Required	Likely absent - Moderate
T45	SJ3333166 522	Pedunculate oak Quercus robur	Moderate	04/08/2021	Moderate	16/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T46	SJ3334466 537	Pedunculate oak Quercus robur	Moderate	04/08/2021	Low	Not Required	Not Required	Not Required	Low
T47	SJ4450673 287	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	07/09/2021	11/05/2021	Not Required	Likely absent - Moderate
T48	SJ4460473 309	Willow sp. Salix sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T49	SJ4462773 329	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	07/09/2021	10/05/2021	16/08/2022	Potential Roost - Confirmed
T50	SJ3258067 255	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T52	SJ3539667 976	Common Beech Fagus sylvatica	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T53	SJ3537467 992	Common Beech Fagus sylvatica	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T54	SJ3162467 256	Sycamore Acer pseudoplatan us	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T55	SJ3168667 310	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T56	SJ3754669 595	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T57	SJ3756869 596	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	24/05/2022	28/06/2022	Not Required	Likely absent - Moderate
T58	SJ3757469 597	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	25/05/2022	21/07/2022	Not Required	Likely absent - Moderate
T59	SJ3758069 599	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T60	SJ3760169 601	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T61	SJ4456273 273	Sycamore Acer pseudoplatan us	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T62	SJ4456173 275	Sycamore Acer pseudoplatan us	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T63	SJ4456173 280	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T64	SJ4455473 274	Sycamore Acer pseudoplatan us	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T65	SJ4454873 276	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T66	SJ4453173 277	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T67	SJ4453673 276	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T68	SJ4450773 281	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	05/05/2022	14/07/2022	Not Required	Likely absent - Moderate
T69	SJ4452674 936	Willow sp. Salix sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T70	SJ4454674 136	Oak sp. Quercus sp.	Moderate	21/09/2021	High	10/05/2022	17/05/22	Not Required – fully searched during tree climb survey	Confirmed Roost
T71	SJ4457973 799	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T72	SJ4458573 788	Oak sp. Quercus sp.	Moderate	20/09/2021	Low	Not Required	Not Required	Not Required	Low
T73	SJ4455973 790	Oak sp. Quercus sp.	High	Unable to be climbed	N/A	06/10/2021	04/05/2022	05/07/2022	Likely absent - High
T74	SJ4457373 754	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T75	SJ4453273 825	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T76	SJ4459774 079	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	21/06/2022	13/07/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T77	SJ4456173 784	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T81	SJ4463373 893	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	22/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T82	SJ4462673 763	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T84	SJ4457874 003	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	07/10/2021	04/05/2022	22/09/2022	Likely absent - High
T85	SJ4462574 031	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	21/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T86	SJ3503967 340	Sycamore Acer pseudoplatanus	Moderate	17/06/2021	High - second climb suggested due to difficulty viewing features from ground.	17/08/2021 – second climb. Downgraded to moderate following thorough inspection of all features.	Not Required – fully searched during tree climb surveys	Not Required	Likely absent - Moderate
T88	SJ3193067 476	Oak sp. Quercus sp.	High	Unable to be climbed	N/A	06/08/2021	19/08/2021	07/06/2022	Likely absent - High
T89	SJ3190067 440	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T90	SJ3187267 451	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T91	SJ3188467 437	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	19/08/2021	07/06/2022	Not Required	Likely absent - Moderate
T92	SJ3212967 463	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T93	SJ3213767 420	Oak sp. Quercus sp.	Moderate	19/08/2021	Moderate	15/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T94	SJ3191167 383	Oak sp. Quercus sp.	High	Unable to be climbed	N/A	19/08/2021	14/06/2022	06/07/2022	Likely absent - High

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T95	SJ3168967 324	Pedunculate oak Quercus robur	Moderate	17/11/2021	Low	12/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T96	SJ3172467 302	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T97	SJ3249967 484	Poplar Populus sp.	Moderate	Unable to be climbed	N/A	12/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T98	SJ3248567 471	Lime Tilas sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T99	SJ3242967 562	Ash Fraxinus excelsior	Low	N/A	N/A	12/08/2021	Not Required	Not Required	Low
T100	SJ3243767 561	Ash Fraxinus excelsior	Low	N/A	N/A	12/08/2021	Not Required	Not Required	Low
T101	SJ3233667 644	Oak sp. Quercus sp	Low	N/A	N/A	12/08/2021	Not Required	Not Required	Low
T103	SJ4330771 511	Oak sp. Quercus sp.	High	16/06/2021	Low	Not Required	Not Required	Not Required	Low
T104	SJ3832170 530	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T105	SJ3833170 536	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	05/10/2021	Not Required – tree was found fallen on 03/03/2022, and was therefore downgraded to negligible	Not Required	Negligible
T107	SJ4278071 939	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T109	SJ4297471 998	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	11/05/2022	29/06/2022	Not Required	Likely absent - Moderate
T110	SJ4295971 985	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	11/05/2022	29/06/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T111	SJ4294771 970	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	11/05/2022	29/06/2022	17/08/2022	Confirmed Roost
T112	SJ4289772 781	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T115	SJ3716369 452	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T116	SJ4226371 200	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	08/06/2021	23/06/2021	Not Required	Likely absent - Moderate
T117	SJ4226971 209	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	08/06/2021	23/06/2021	Not Required	Likely absent - Moderate
T118	SJ4227071 224	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	08/06/2021	23/06/2021	Not Required	Likely absent - Moderate
T128	SJ2958767 307	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T129	SJ2958467 340	Pedunculate oak Quercus robur	Moderate	17/01/2021	Low	Not Required	Not Required	Not Required	Low
T131	SJ3093266 816	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T132	SJ3123567 131	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T133	SJ3871571 091	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T134	SJ3865071 096	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T135	SJ3869071 112	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T136	SJ3876471052	Pedunculate oak Quercus robur	Moderate	10/05/2022	Negligible	Not Required	Not Required	Not Required	Negligible
T137	SJ3865771071	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	04/08/2022	25/08/2022	Not Required	Likely absent - Moderate
T138	SJ3870971098	Pedunculate oak Quercus robur	Moderate	10/05/2022	Low	Not Required	Not Required	Not Required	Low
T139	SJ3882771022	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T140	SJ4091071345	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T141	SJ4091771333	Unknown	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T142	SJ4092471326	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T143	SJ4094271321	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T144	SJ4022171143	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	23/06/2022	05/07/2022	Not Required	Likely absent - Moderate
T145	SJ4048871197	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	23/06/2022	05/07/2022	Not Required	Likely absent - Moderate
T146	SJ4113271409	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T147	SJ4114071395	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	18/05/2022	07/07/2022	Not Required	Likely absent - Moderate
T148	SJ4114171394	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	17/05/2022	06/07/2022	Not Required	Likely absent - Moderate

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T149	SJ4114471 389	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	17/05/2022	06/07/2022	Not Required	Likely absent - Moderate
T150	SJ4115271 373	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T151	SJ4117771 337	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T152	SJ4117771 335	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	17/05/2022	06/07/2022	Not Required	Likely absent - Moderate
T153	SJ4118471 327	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T154	SJ4095971 321	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T155	SJ4094871 351	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T156	SJ4095771 354	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T157	SJ4096571 360	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T158	SJ3502767 322	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T159	SJ3499467 263	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	10/06/2021	15/07/2021	23/08/2021	Confirmed Roost
T160	SJ3489867 139	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T161	SJ3489867 139	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T162	SJ3999371 051	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T163	SJ3999971 053	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T164	SJ4000171 056	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	18/05/2022	07/07/2022	Not Required	Likely absent - Moderate
T165	SJ4000671 056	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	18/05/2022	07/07/2022	To be completed as part of the pre-commencement surveys prior to construction	Precautionarily assessed as a Potential Roost
T166	SJ3969071 028	Willow sp. Salix sp.	Moderate	Unable to be climbed	N/A	02/08/2021	18/05/2022	15/08/2022	Likely absent – Moderate
T167	SJ3966671 022	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	29/06/2021	03/08/2021	Not Required	Likely absent - Moderate
T168	SJ3966071 022	Oak sp. Quercus sp.	High	Unable to be climbed	N/A	02/08/2021	12/07/2022	04/08/2022	Likely absent - High
T169	SJ3963971 023	Oak sp. Quercus sp.	Moderate	20/07/2021	Moderate	02/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T170	SJ3963071 014	Oak sp. Quercus sp.	Moderate	20/07/2021	Moderate	02/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T171	SJ3960870 957	Oak sp. Quercus sp.	Moderate	20/07/2021	Moderate	03/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T172	SJ3945970 842	Dead Tree	Moderate	Unable to be climbed	N/A	03/08/2021	19/05/2022	Not Required	Likely absent - Moderate
T173	SJ3944770 845	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	03/08/2021	18/05/2022	Not Required	Likely absent - Moderate

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T174	SJ3942370 860	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	03/08/2021	18/05/2022	Not Required	Likely absent - Moderate
T175	SJ3941170 866	Dead Tree	Moderate	Unable to be climbed	N/A	04/08/2021	19/05/2022	Not Required	Likely absent - Moderate
T176	SJ3812169 806	Pedunculate oak Quercus robur	Moderate	25/20/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T177	SJ3811969 816	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T178	SJ3807169 834	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T179	SJ3804769 849	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T180	SJ3804069 855	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T181	SJ3803669 857	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T182	SJ3803269 859	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T183	SJ3801969 853	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T184	SJ3809569 818	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T185	SJ3794369 677	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T186	SJ3793969675	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T187	SJ3796269689	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T188	SJ3791269713	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T189	SJ3788669753	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T190	SJ3030467008	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	15/06/2022	29/07/2022	15/08/2022	Confirmed Roost
T191	SJ3003266833	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T192	SJ3825670599	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T193	SJ3832470722	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	12/08/2021	23/09/2021	Not Required	Likely absent - Moderate
T194	SJ3832870769	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T195	SJ3828270794	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T196	SJ3827170808	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T197	SJ3826870812	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	19/05/2022	14/07/2022	Not Required	Likely absent - Moderate
T198	SJ4644675312	Oak sp. Quercus sp.	High	Unable to be climbed	N/A	24/05/2021	26/07/2021	22/09/2021	Likely absent - High
T199	SJ4647675311	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T200	SJ4653675 378	Oak sp. Quercus sp.	Moderate	15/06/2021	Moderate	26/07/2021	22/09/2021	Not Required - fully searched during tree climb survey	Potential Roost - Confirmed
T201	SJ4654775 386	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	24/05/2021	27/07/2021	Not Required	Likely absent - Moderate
T202	SJ4655675 395	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T203	SJ4657375 413	Dead Tree	Moderate	Unable to be climbed	N/A	25/05/2021	27/07/2021	Not Required	Likely absent - Moderate
T204	SJ4659175 383	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	14/06/2021	28/07/2021	Not Required	Likely absent - Moderate
T205	SJ4659975 378	Oak sp. Quercus sp.	Moderate	15/06/2021	Moderate	26/07/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T206	SJ4661375 369	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	25/05/2021	28/07/2021	Not Required	Likely absent - Moderate
T207	SJ4636875 060	Oak sp. Quercus sp.	Moderate	15/06/2021	Low	Not Required	Not Required	Not Required	Low
T209	SJ3568168 507	Poplar sp. Populus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T210	SJ3569068 513	Poplar sp. Populus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T211	SJ3569368 516	Poplar sp. Populus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T212	SJ3570568 528	Poplar sp. Populus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T213	SJ3571468 534	Poplar sp. Populus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T214	SJ3594468 918	Willow sp. Salix sp.	Moderate	Unable to be climbed	N/A	04/08/2021	No longer required as tree had fallen and been removed	Not Required	N/A - Tree has fallen down
T215	SJ3596268 910	Willow sp. Salix sp.	Moderate	Unable to be climbed	N/A	04/08/2021	08/06/2022	Not Required	N/A – Tree has fallen down

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T216	SJ3597468 903	Willow sp. Salix sp.	Moderate	18/10/2021	Low	04/08/2021	Not Required	Not Required	Low
T217	SJ3601368 891	Willow sp. Salix sp.	Moderate	18/10/2021	Low	04/08/2021	Not Required	Not Required	Low
T218	SJ3603568 883	Willow sp. Salix sp.	Low	N/A	N/A	04/08/2021	Not Required	Not Required	Low
T219	SJ3607668 868	Willow sp. Salix sp.	High	Unable to be climbed	N/A	04/08/2021	10/05/2022	03/08/2022	Likely absent - High
T220	SJ3608168 866	Willow sp. Salix sp.	Moderate	Unable to be climbed	N/A	04/08/2021	03/08/2022	22/08/2022	Confirmed Roost
T221	SJ3608668 871	Willow sp. Salix sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T222	SJ3609668 861	Willow sp. Salix sp.	Moderate	Unable to be climbed	N/A	08/06/2022	19/07/2022	Not Required	Likely absent - Moderate
T223	SJ3918170 826	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	07/07/2022	21/07/2022	Not Required	Likely absent - Moderate
T225	SJ3688869 515	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	03/08/2022	22/08/2022	Not Required	Likely absent - Moderate
T226	SJ3688769 517	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T227	SJ3692269 493	Ash Fraxinus excelsior	Moderate	23/09/2021	Low	Not Required	Not Required	Not Required	Low
T228	SJ3690269 443	Pedunculate oak Quercus robur	Moderate	23/09/2021	Moderate	08/06/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T229	SJ3700169 421	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T230	SJ3709069 515	Pedunculate oak Quercus robur	Moderate	23/09/2021	High	03/08/2022	25/08/2022 – Abandoned due to cows. To be completed as part of the pre-commencement surveys prior to construction, where required.	Not Required - fully searched during tree climb survey	Precautionarily assessed as a Potential Roost
T231	SJ3737969 465	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T232	SJ3738069 545	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T233	SJ3733469 550	Dead tree	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T234	SJ3732569 555	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	29/09/2021	13/07/2022	04/08/2022	Confirmed Roost
T235	SJ3730569 554	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T236	SJ3725369 554	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T237	SJ3722969 556	Pedunculate oak Quercus robur	Moderate	22/09/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T238	SJ3723369 460	Pedunculate oak Quercus robur	High	Unable to be climbed	N/A	13/07/2022	02/08/2022	23/08/2022	Confirmed Roost
T239	SJ2647167 649	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T240	SJ2639067 716	Oak sp. Quercus sp.	Moderate	18/10/2021	Low	11/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T241	SJ2638167 714	Oak sp. Quercus sp.	Moderate	18/10/2021	Low	11/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T242	SJ2648867 765	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T245	SJ4542374 425	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T247	SJ4574174 619	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T248	SJ4567174 584	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	30/06/2021	19/07/2021	Not Required	Likely absent - Moderate
T249	SJ3669369 328	Ash Fraxinus excelsior	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T250	SJ3673069 336	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T251	SJ3561067 377	Willow sp. Salix sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T252	SJ4404673 034	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T253	SJ4404273 054	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T254	SJ4403773 069	Willow sp. Salix sp.	High	Unable to be climbed	N/A	10/05/2022	04/08/2022	24/08/2022	Likely absent - High
T255	SJ4404173 076	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T257	SJ3538467 999.	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T258	SJ3540467 985	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T261	SJ4123771 291	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	02/09/2021 – downgraded following survey after detailed inspection of ivy cover	Not Required	Not Required	Low
T262	SJ4133871 479	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T265	SJ4408572 928	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/05/2022	No access	Not Required	Precautionarily assessed as a Potential Roost
T267	SJ4614874 651	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	13/08/2021	28/09/2021	Not Required	Likely absent - Moderate
T269	SJ3542667 969	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T271	SJ2653267 710	Oak sp. Quercus sp.	Moderate	07/02/2022	Low	Not Required	Not Required	Not Required	Low
T272	SJ2652167 611	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	16/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T273	SJ2650167 621	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	16/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T274	SJ2668167 560	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	16/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T275	SJ4408672 897	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/08/2021	11/05/2022	Not Required	Likely absent - Moderate
T276	SJ4408772 922	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/08/2021	12/05/2022	Not Required	Likely absent - Moderate
T277	SJ3467966 968	Sycamore Acer pseudoplatanus	Moderate	18/10/2021	Negligible	09/08/2021 – climb suggested due to lack of bat activity	20/10/2021 - downgraded to Negligible following detailed inspection of features	Not Required	Negligible

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T278	SJ3466166 969	Willow sp. Salix sp.	Moderate	18/10/2021	Low	09/08/2021 – climb suggested due to lack of activity	20/10/2021 - downgraded to low following aerial survey inspection of features	Not Required	Low
T279	SJ3465366 971	Willow sp. Salix sp.	Moderate	20/10/2021	Moderate	09/08/2021	13/07/2022	Not Required	Likely absent - Moderate
T280	SJ3466166 982	Dead Tree	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T281	SJ3493066 719	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T282	SJ3509466 604	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T283	SJ3510466 596	Sycamore Acer pseudoplatanus	High	Unable to be climbed	N/A	13/07/2022	04/08/2022	24/08/2022	Potential roost - Confirmed
T284	SJ3511566 588	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	12/07/2022	25/08/2022	Not Required	Likely absent - Moderate
T285	SJ2987167 047	Oak sp. Quercus sp.	Moderate	05/08/2021	Low	Not Required	Not Required	Not Required	Low
T286	SJ2981967 207	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	14/06/2022	13/07/2022	Not Required	Likely absent - Moderate
T287	SJ2513370 417	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T288	SJ2525970 138	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	23/08/2021	30/06/2022	Not Required	Likely absent - Moderate
T289	SJ2515470 396	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T290	SJ2523270 066	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T291	SJ2527470 131	Beech Fagus sylvatica	Moderate	22/07/2021	Low	Not Required	Not Required	Not Required	Low
T292	SJ3367166 315	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	22/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T293	SJ3390066 310	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	22/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T294	SJ3369666 264	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T295	SJ3814870 320	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	11/08/2021	23/09/2021	Not Required	Likely absent - Moderate
T296	SJ3820270 373	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	11/08/2021	29/09/2021	Not Required	Likely absent - Moderate
T297	SJ3814370 498	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	11/08/2021	19/05/2022	Not Required	Likely absent - Moderate
T298	SJ4136171 036	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T300	SJ4141571 084	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T301	SJ4142071 085	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T302	SJ4143271 093	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	13/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T303	SJ4143971 100	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T304	SJ4147071126	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	13/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T305	SJ4148271141	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T306	SJ4149571154	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T307	SJ4150571162	Pedunculate oak Quercus robur	Moderate	06/05/2022	Low	Not Required	Not Required	Not Required	Low
T308	SJ4151271167	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T309	SJ4152371175	Pedunculate oak Quercus robur	Moderate	06/05/2022	Moderate	14/06/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T310	SJ4174171032	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T311	SJ4159771035	Sycamore Acer pseudoplatanus	Moderate	04/05/2022	Low	Not Required	Not Required	Not Required	Low
T315	SJ4197071032	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T316	SJ4195871045	Pedunculate oak Quercus robur	Moderate	05/05/2022	Low	Not Required	Not Required	Not Required	Low
T317	SJ4196371057	Sycamore Acer pseudoplatanus	Moderate	N/A	N/A	15/06/2022	14/07/2022	Not Required	Likely absent - Moderate

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T318	SJ4194471083	Sycamore Acer pseudoplatanus	High	05/05/2022	High	13/07/2022	02/08/2022	23/08/2022	Likely absent - High
T319	SJ4193471100	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T320	SJ4191971122	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T321	SJ4189671132	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	13/07/2022	04/08/2022	23/08/2022	Confirmed Roost
T322	SJ4190171137	Sycamore Acer pseudoplatanus	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T324	SJ4433873221	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	10/05/2022	14/07/2022	17/08/2022	Likely absent - High
T325	SJ4301172033	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	10/08/2021	23/06/2022	13/07/2022	Potential Roost - Confirmed
T326	SJ4302972052	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	To be completed as part of the pre-commencement surveys prior to construction, where required	To be completed as part of the pre-commencement surveys prior to construction, where required	Potential Roost - Confirmed
T327	SJ4304272065	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/08/2021	12/05/2022	To be completed as part of the pre-commencement surveys prior to construction, where required	Potential Roost - Confirmed

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T328	SJ4305772 074	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T329	SJ4308072 091	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/08/2021	12/05/2022	Not Required	Likely absent - Moderate
T330	SJ4309172 101	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T331	SJ4313372 147	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/08/2021	11/05/2022	Not Required	Likely absent - Moderate
T332	SJ4315672 166	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	10/08/2021	10/05/2022	Not Required	Likely absent - Moderate
T334	SJ3538467 999	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T335	SJ3540467 985	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T336	SJ2530369 100	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	08/09/2021	29/06/2022	Not Required	Likely absent - Moderate
T337	SJ2531169 057	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T338	SJ4005871 149	Oak sp. Quercus sp.	High	21/07/2021	High – second climb suggested due to difficulty viewing features from ground.	17/08/2021 – second climb. Tree downgraded to moderate following thorough inspection of all features.	Not Required - fully searched during tree climb surveys	Not Required	Likely absent - Moderate
T339	SJ4024671 210	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	14/07/2021	12/08/2021	Not Required	Likely absent - Moderate
T340	SJ4023071 177	Ash Fraxinus excelsior	High	Unable to be climbed	N/A	14/07/2021	12/08/2021	21/09/2021	Likely absent - High
T341	SJ4608774 696	Pedunculate oak Quercus robur	High	18/08/2021	Low	Not Required	Not Required	Not Required	Low
T343	SJ4592574 682	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T344	SJ4589774 634	Oak sp. Quercus sp.	Moderate	15/06/2021	Low	Not Required	Not Required	Not Required	Low
T345	SJ4587274 586	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	09/08/2021	29/09/2021	Not Required	Likely absent - Moderate
T346	SJ4572474 549	Oak sp. Quercus sp.	Moderate	15/06/2021	Low	Not Required	Not Required	Not Required	Low
T349	SJ4538874 643	Cherry sp. prunus sp.	Moderate	Unable to be climbed	N/A	09/08/2021	06/10/2021 – limited by high winds. To be completed as part of the pre-commencement surveys prior to construction, where required.	Not Required	Precautionarily assessed as a Potential Roost
T350	SJ3258967 048	Oak sp. Quercus sp.	Moderate	10/02/2022	Moderate	09/06/2022	06/07/2022	Not Required	Likely absent - Moderate
T351	SJ3802270 212	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T352	SJ3811970 210	Pedunculate oak Quercus robur	High	10/05/2022	Low	Not Required	Not Required	Not Required	Low
T355	SJ4457373 538	Sycamore Acer pseudoplatanus	Moderate	16/06/2021	Moderate	07/09/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T356	SJ4472473 618	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T357	SJ4471273 630	Oak sp. Quercus sp.	Moderate	16/06/2021	Low	Not Required	Not Required	Not Required	Low
T358	SJ4469773 645	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	30/06/2021	07/09/2021	Not Required	Likely absent - Moderate

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T359	SJ4455373 671	Oak sp. Quercus sp.	Moderate	16/06/2021	Moderate	07/09/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T360	SJ3303966 753	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T361	SJ3770669 615	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T362	SJ3767469 609	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T363	SJ3765569 606	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T364	SJ3774369 576	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	07/06/2022	13/07/2022	Not Required	Likely absent - Moderate
T365	SJ3741469 565	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	07/06/2022	12/07/2022	16/08/2022	Confirmed Roost
T366	SJ3045966 948	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T367	SJ3015066 969	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T368	SJ4236871 261	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T369	SJ4249871 280	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T370	SJ4254471 277	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T371	SJ4255171 201	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	10/05/2022	19/07/2022	22/09/2022	Confirmed Roost

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T373	SJ2951967363	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T374	SJ2951067369	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T375	SJ2950267376	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T376	SJ2915067207	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T377	SJ2935567158	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T378	SJ3066066748	Alder Alnus glutinosa	Moderate	Unable to be climbed	N/A	22/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T379	SJ2880066502	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T380	SJ2883966465	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T381	SJ2861266518	Oak sp. Quercus sp.	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T382	SJ2843866544	Dead tree	Moderate	Unable to be climbed	N/A	03/09/2021	16/06/2022	N/A	Likely absent - Moderate
T383	SJ2846566553	Dead tree	High	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T384	SJ2846266571	Oak sp. Quercus sp.	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T385	SJ2842466644	Oak sp. Quercus sp.	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T386	SJ2836066738	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T387	SJ2827866 712	Oak sp. Quercus sp.	High	21/07/2021	High	17/08/2021	22/09/2021	Not required - fully searched during tree climb survey	Likely absent - High
T388	SJ2828466 700	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T389	SJ2812166 873	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T390	SJ2810966 867	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T391	SJ2810966 864	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T392	SJ2810666 861	Alder Alnus glutinosa	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T393	SJ2807066 800	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	16/06/2022	29/07/2022	Not Required	Likely absent - Moderate
T398	SJ2863266 483	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T399	SJ2864266 486	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T400	SJ2864566 426	Hawthorn with Elder tree Crategus sp., / Sambucus nigra	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T401	SJ2862266 406	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	09/06/2022	19/07/2022	Not Required	Likely absent - Moderate
T402	SJ2860066 447	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	14/06/2022	19/07/2022	Not Required	Likely absent - Moderate

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T403	SJ2852466 459	Pedunculate oak Quercus robur	Moderate	Unable to be climbed	N/A	28/07/2022	20/09/2022	Not Required	Likely absent - Moderate
T404	SJ2854966 459	Pedunculate oak Quercus robur	Moderate	24/05/2022	Low	Not Required	Not Required	Not Required	Low
T406	SJ2566168 532	Oak sp. Quercus sp.	Moderate	17/01/2021	Low	Not Required	Not Required	Not Required	Low
T407	SJ2559468 629	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T408	SJ2554868 635	Oak sp. Quercus sp.	Moderate	25/10/2021	Low	Not Required	Not Required	Not Required	Low
T409	SJ2557168 533	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T410	SJ2555568 550	Oak sp. Quercus sp.	Moderate	25/10/2021	Low	Not Required	Not Required	Not Required	Low
T411	SJ2554368 561	Pedunculate oak Quercus robur	Moderate	20/01/22 – second climb suggested due to difficulty accessing features	Moderate	10/05/2022 – second climb	28/06/2022	Not Required	Likely absent - Moderate
T412	SJ2553568 571	Oak sp. Quercus sp.	Moderate	25/20/2021	Low	Not Required	Not Required	Not Required	Low
T414	SJ2566468 345	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T415	SJ2729367 412	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T416	SJ2569968 270	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T417	SJ2674867 585	Oak sp. Quercus sp.	Moderate	17/06/2021	Moderate	24/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T418	SJ2677867 603	Oak sp. Quercus sp.	Moderate	17/06/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T419	SJ2636967 724	Dead tree	High	No access	N/A	No access			Precautionarily assessed as a Potential Roost
T420	SJ2632767 725	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T421	SJ2631467 706	Ash Fraxinus excelsior	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T422	SJ2634167 694	Dead Tree	High	No access	N/A	No access			Precautionarily assessed as a Potential Roost
T423	SJ2633067 633	Ash Fraxinus excelsior	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T424	SJ2634167 648	Alder Alnus glutinosa	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T425	SJ2637567 723	Dead tree	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T426	SJ2632667 697	Oak sp. Quercus sp.	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T427	SJ2632967 648	Ash Fraxinus excelsior	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T428	SJ2635867 657	Silver Birch Betula pendula	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost

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T429	SJ2631567 684	Pedunculate oak Quercus robur	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T430	SJ2630967 716	Pedunculate oak Quercus robur	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T431	SJ2630967 718	Pedunculate oak Quercus robur	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T432	SJ2773767 188	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T433	SJ2787066 883	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T434	SJ2781466 923	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	21/06/2022	05/07/2022	Not Required	Likely absent - Moderate
T435	SJ2784066 909	Willow sp. Salix sp.	Moderate	Unable to be climbed	N/A	21/06/2022	No Access	Not Required	Precautionarily assessed as a Potential Roost
T436	SJ4491473 372	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T438	SJ4481073 491	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	15/06/2021	15/07/2021	Not Required	Likely absent - Moderate
T440	SJ2535669 848	Sycamore Acer pseudoplatanus	Moderate	03/08/2021	Low	Not Required	Not Required	Not Required	Low
T441	SJ2535069 852	Dead Tree	Moderate	21/09/2021	Low	Not Required	Not Required	Not Required	Low
T443	SJ2563468 420	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T444	SJ2562968 448	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T445	SJ2561668 468	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T446	SJ2563168 507	Pedunculate oak Quercus robur	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T447	SJ4331272 310	Unknown	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T448	SJ4277771 644	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T449	SJ4273871 626	Ash Fraxinus excelsior	High	19/08/2021	High	12/05/2022	27/07/2022	Not Required - fully searched during tree climb survey	Likely absent - High
T450	SJ4271971 620	Oak sp. Quercus sp.	Moderate	19/08/2021	Low	Not Required	Not Required	Not Required	Low
T451	SJ4264471 386	Oak sp. Quercus sp.	Moderate	19/08/2021	Moderate	12/05/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T452	SJ2571168 124	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	30/06/2021	15/07/2021	Not Required	Likely absent - Moderate
T453	SJ3821170 360	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	24/05/2022	20/07/2022	Not Required	Likely absent - Moderate
T454	SJ3818970 342	Oak sp. Quercus sp.	Moderate	Unable to be climbed	N/A	24/05/2022	20/07/2022	Not Required	Likely absent - Moderate
T455	SJ3816770 324	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T456	SJ2696767 426	Oak sp. Quercus sp.	Moderate	19/08/2021	Moderate	07/10/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T457	SJ2694067 413	Willow sp. Salix sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

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T458	SJ2691767425	Willow sp. Salix sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T459	SJ2698167447	Ash Fraxinus excelsior	Moderate	19/08/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T460	SJ2698967453	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T461	SJ2705367438	Dead tree	Moderate	Unable to be climbed	N/A	08/09/2021	22/06/2022	Not Required	Likely absent - Moderate
T462	SJ2701567442	Ash Fraxinus excelsior	Moderate	Unable to be climbed	N/A	08/09/2021	15/06/2022	Not Required	Likely absent - Moderate
T464	SJ3079166911	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	15/06/2022	29/07/2022	Not Required	Likely absent - Moderate
T475	SJ2525371101	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T480	SJ4462373727	Oak sp. Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T491	SJ2893867119	Sycamore Acer pseudoplatanus	Moderate	Unable to be climbed	N/A	To be completed as part of the pre-commencement surveys prior to construction, where required.	To be completed as part of the pre-commencement surveys prior to construction, where required.	Not Required	Precautionarily assessed as a Potential Roost
T492	SJ2895667114	Oak species Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T493	SJ2896467119	Oak species Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T494	SJ2896667121	Oak species Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid ~~reference~~ Reference	Tree Species	Suitability Following PRA	Tree Climb Survey Undertaken (~~date~~Date)	Suitability Following Tree Climb	Emergence/Re-entry Survey 1/ Tree Climb 1	Emergence/ Re-entry - Survey 2/ Tree Climb 2	Emergence/ Re-entry - Survey 3	Final Suitability
T495	SJ255426 8052	Oak species Quercus sp.	Moderate	Unable to be climbed	N/A	To be completed as part of the pre-commencement surveys prior to construction, where required.	To be completed as part of the pre-commencement surveys prior to construction, where required.	Not Required	Precautionarily assessed as a Potential Roost
T496	SJ219577 2403	Oak species Quercus sp.	Moderate	To be completed as part of the pre-commencement surveys prior to construction, where required.	N/A	To be completed as part of the pre-commencement surveys prior to construction, where required.	To be completed as part of the pre-commencement surveys prior to construction, where required.	Not Required	Precautionarily assessed as a Potential Roost
T497	SJ219237 2377	Oak species Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T498	SJ219267 2346	Oak species Quercus sp.	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T499	SJ218857 2539	Sessile oak Quercus petraea	Moderate	To be completed as part of the pre-commencement surveys prior to construction, where required.	N/A	To be completed as part of the pre-commencement surveys prior to construction, where required.	To be completed as part of the pre-commencement surveys prior to construction, where required.	Not Required	Precautionarily assessed as a Potential Roost

Annex E

CONFIRMED BAT ROOSTS

Table 7 – Confirmed Bat Roosts

Method	Feature ~~reference~~ Reference / Tag Number	Date	Species	Comments	Type of roost
Structures					
Dusk Emergence survey	B97	26/05/2021	Common pipistrelle	Potential emergence from windows along SE side of the building.	Potential day roost
Dusk Emergence survey	B113	18/08/2021	Common pipistrelle	Emergence of single bat from crack in brickwork from south corner of structure.	Day Roost
Dusk Emergence survey	B113	08/06/2022	Common pipistrelle	Emergence of 6 common pipistrelle bats. A single bat from the northwest elevation, a single bat from the northeast elevation under the facia boarding at the edge of the roof, three bats from the southern corner of the building where the roof had lifted and a single bat from the southwest elevation.	Day Roost
Dusk Emergence survey	B133	25/05/2022	Common pipistrelle Soprano pipistrelle	Emergence of 7 bats (4 x common pipistrelles and 3 soprano pipistrelles) from the south-eastern gable end roof flashing.	Day Roost
Trees					
Dusk Emergence survey	T1	30/06/2022	Common pipistrelle	Potential emergence of a single bat from the tree.	Potential day roost
	T49	07/09/2021	Soprano pipistrelle	Potential emergence of a single bat from feature on north-east side of tree.	Potential day roost
	T159	15/07/2021	Soprano pipistrelle	Emergence of a single bat from the top of the tree on the eastern side.	Day roost
	T190	15/06/2022	Common pipistrelle	Emergence of a single bat from a snapped off limb on south-west side of tree.	Day roost
	T200	26/07/2021	Soprano pipistrelle	Potential emergence of a single bat from large, open trunk cavity extending into the northernmost lower branch.	Potential day roost
	T220	04/08/2021	Common pipistrelle	Emergence of a single bat which dropped down from a feature on the eastern side of the tree.	Day roost
	T238	02/08/2022	Soprano pipistrelle	Emergence of a single bat from a woodpecker hole on the southern aspect.	Potential day roost
	T238	23/08/2022	Soprano pipistrelle	Emergence of a single bat from a woodpecker hole on the southern aspect.	Potential day roost
	T325	10/08/2021	Brown long-eared bat	Potential emergence of a number of bats along this tree line during survey on 10/08/2021. However, no roosts were recorded during subsequent visits (June and July 2022).	Potential day roost
	T326	10/08/2021	Brown long-eared bat	Potential emergence of a number of bats along this tree line during survey on 10/08/2021. However, no roosts were recorded during subsequent visits (June and July 2022).	Potential day roost
	T327	10/08/2021	Brown long-eared bat	Potential emergence of a number of bats along this tree line during survey on 10/08/2021. However, no roosts were recorded during subsequent visits (June and July 2022).	Potential day roost

Method	Feature ~~reference~~ Reference / Tag Number	Date	Species	Comments	Type of roost
	T365	07/06/2022	Common pipistrelle	Emergence of a single bat from split in bark below woodpecker hole.	Day roost
	T371	10/05/2022	Common pipistrelle	Emergence of a single bat from upward facing knothole on north pointing branch.	Day roost
	T321	23/08/2022	Soprano pipistrelle	Emergence of a single bat from a hole on the underside broken branch on west side of tree.	Day roost
Dawn Re-entry survey	T70	17/05/2022	Soprano pipistrelle	Re-entry of a single bat from cavity in the main trunk.	Day roost
	T111	29/06/2022	Common pipistrelle and *Myotis* sp.	Two bats flew into tree on south side several minutes apart.	Day roost
	T234	04/08/2022	Soprano pipistrelle	Re-entry of a single bat into a feature on the end of a lower branch on western aspect of the tree.	Day roost
	T283	13/07/2022	Common pipistrelle	Potential re-entry of a single bat into the tree.	Potential day roost
	T321	13/07/2022	Noctule	Re-entry of at least 22 bats into a hole on the underside broken branch on west side of tree.	Maternity roost

Annex F

WEATHER DETAILS FOR SURVEYS

Table 8 – Structure Dusk Emergence and Dawn Re-entry Survey Weather Details

Structure Reference	Survey No. & Date	Dusk/Dawn	Sunrise/sunset time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)
B8	1 – 24/05/2022	Dusk	21:17	Start – 21:02 End – 22:47	13 11	2 2	2 3	0 0
B68	1 – 24/05/2022	Dusk	21:17	Start – 21:02 End – 22:47	14 11	1 0	2 1	0 0
B79	1 – 18/08/2022	Dawn	05:57	Start – 04:27 End – 06:12	15 15	2 2	7 8	0 0
B82	1 – 26/05/2022	Dawn	04:57	Start – 03:27 End – 05:12	11 12	1 1	6 7	0 0
B97	1 – 26/05/2022	Dusk	21:21	Start – 21:05 End - 22:50	15 12	2 1	2 4	0 0
	2 – 09/06/2022	Dusk	21:36	Start – 21:21 End – 23:08	15 15	4 4	5 5	0 0
	3 – 23/06/2022	Dawn	04:43	Start – 03:13 End – 04:58	12 10	0 0	0 0	0 0
B113	1 – 18/08/2021	Dusk	20:18	Start – 20:18 End – 22:03	16 14	1 1	8 8	0 0
	2 – 25/05/2022	Dawn	04:58	Start – 03:28 End – 04:58	11 11	3 2	8 8	0 0
	3 – 08/06/2022	Dusk	21:35	Start – 21:20 End – 23:05	15 15	2 2	2 4	0 0
B133	1 – 25/05/2022	Dusk	21:20	Start – 21:05 End - 22:50	15 12	2 1	3 3	0 0
	2 – 09/06/2022	Dawn	04:46	Start – 03:16 End – 04:46	10 10	3 1	0 1	0 0

Table 9 ~~–~~ Tree Dusk Emergence and Dawn Re-entry Survey Weather Details

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
BB_T875	1 – 04/05/2022	Dusk	20:47	Start – 20:32 End – 22:17	11 10	1 1	8 8	0 0	No
	2 – 17/05/2022	Dawn	05:10	Start – 03:40 End – 05:25	13 13	2 2	7 6	0 0	No
BB_T876	1 – 19/05/2022	Dawn	05:07	Start – 03:37 End – 05:22	10 10	2 1	8 0	0 0	No
	2 – 07/06/2022	Dawn	04:47	Start – 03:18 End – 05:03	13 13	0 0	8 6	0 0	No
	3 – 05/07/2022	Dusk	21:41	Start – 21:26 End – 23:11	16 16	1 2	8 8	0 0	No
T1	1 – 30/06/2022	Dusk	21:43	Start – 21:28 End – 23:12	14 12	2 2	4 6	0 0	No
	2 – 29/07/2022	Dawn	05:24	Start – 03:54 End – 05:24	15 15	0 0	8 8	0 1	No
T2	1 – 30/06/2022	Dawn	04:48	Start – 03:18 End – 05:03	14 13	3 1	7 3	0 0	No
	2 – 19/07/2022	Dusk	21:27	Start – 21:12 End – 22:57	20 22	0 1	5 4	0 0	No
T4	1 – 30/06/2022	Dawn	04:49	Start – 03:19 End – 05:04	12 12	1 1	8 7	1 0	No
	2 – 19/07/2022	Dusk	21:26	Start – 21:08 End – 23:00	26 22	0 3	1 8	0 0	No
T6	1 – 02/09/2021	Dusk	19:59	Start – 19:44 End – 21:28	17 15	1 1	1 1	0 0	No
	2 – 28/06/2022	Dawn	04:47	Start – 03:17 End – 05:02	13 13	2 2	8 6	0 0	No
T8	1 – 02/09/2021	Dusk	19:59	Start – 19:44 End – 21:29	18 15	1 1	1 1	0 0	No
	2 – 28/06/2022	Dawn	04:47	Start – 03:17	13	2	8	0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
				End – 05:02	13	3	7	0	
T9	1 – 03/09/2021	Dawn	06:22	Start - 4:52 End – 6:37	14 14	2 3	0 1	0 0	Yes
	2 – 29/06/2022	Dusk	21:43	Start – 21:27 End – 23:12	16 14	2 2	6 8	0 1	No
T29	1 – 28/06/2022	Dusk	21:43	Start – 21:27 End – 23:13	15 14	2 1	8 8	1 0	No
T30	1 – 28/06/2022	Dusk	21:43	Start – 21:27 End – 23:13	15 14	3 3	8 8	0 1	No
T41	1 – 14/06/2022	Dusk	21:40	Start – 21:25 End – 23:10	15 13	1 1	1 1	0 0	No
T42	1 – 14/06/2022	Dusk	21:40	Start – 21:25 End – 23:10	15 12	0 0	0 0	0 0	No
T44	1 – 07/06/2021	Dusk	21:31	Start – 21:19 End – 23:04	16 15	0 0	1 2	0 0	No
	2 – 20/07/2021	Dawn	05:09	Start – 3:39 End – 5:24	17 17	0 0	1 4	0 0	No
T45	1 – 16/06/2022	Dusk	21:41	Start – 21;26 End – 23:11	17 15	2 2	6 6	0 0	No
T47	1 – 0709/2021	Dusk	19:47	Start – 19:32 End – 21:17	26 22	0 0	0 0	0 0	No
	2 – 11/05/2022	Dawn	05:19	Start – 03:49 End – 05:34	12 12	3 3	7 8	0 1	No
T49	1 – 07/09/2021	Dusk	19:47	Start – 19:32 End – 21:17	26 22	1 1	0 0	0 0	No
	2 – 10/05/2022	Dawn	05:22	Start – 03:51 End – 05:36	13 12	1 1	7 7	0 0	No
	3 – 16/08/2022	Dusk	20:57	Start – 20:22 End – 22:07	19 17	1 2	7 7	0 0	No
T57	1 – 24/05/2022	Dawn	04:59	Start – 03:29	10	2	6	0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
				End – 05:14	10	2	6	0	
	2 – 28/06/2022	Dusk	21:42	Start – 21:28 End – 23:13	13 14	2 2	8 8	1 1	No
T58	1 – 25/05/2022	Dusk	21:19	Start – 21:04 End - -22:49	14 13	1 1	2 2	0 0	No
	2 – 21/07/2022	Dawn	05:11	Start – 03:41 End – 05:26	16 15	3 3	6 7	0 0	No
T68	1 – 05/05/2022	Dusk	20:47	Start – 20:28 End – 22:47	15 13	2 5	7 7	0 0	No
	2 – 14/07/2022	Dawn	05:01	Start – 03:31 End – 05:16	12 13	2 2	5 7	0 0	No
T70	1 - 10/05/2022	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2 - 17/05/2022	Dawn	05:06	Start – 03:30 End – 05:20	12 11	1 1	1 1	0 0	No
T73	1 - 06/10/2021	Dusk	18:37	Start – 18:22 End – 20:07	14 14	1 1	8 8	1 0	Yes
	2 - 04/05/2022	Dusk	20:45	Start – 20:30 End – 22:15	12 11	3 4	8 8	0 0	No
	3 - 05/07/2022	Dawn	04:52	Start – 03:22 End – 05:07	14 13	2 1	7 2	0 0	No
T76	1 - 21/06/2022	Dusk	21:42	Start – 21:27 End – 23:12	17 15	4 3	0 0	0 0	No
	2 - 13/07/2022	Dawn	05:01	Start – 03:31 End – 05:16	17 16	3 3	7 7	0 0	No
T81	1 - 22/06/2022	Dusk	21:42	Start – 21:27 End – 23:12	20 16	2 1	1 0	0 0	No
	2 - 14/07/2022	Dawn	05:02	Start – 03:29 End – 05:17	12 13	1 2	7 7	0 0	No
T84	1 - 07/10/2021	Dawn	07:23	Start - 5:53 End - 7:23	15 14	1 1	7 5	0 0	Yes

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	2 - 04/05/2022	Dusk	20:46	Start – 20:31 End – 22:16	12 11	2 2	8 8	0 0	No
	3 – 22/09/2022	Dawn	06:57	Start – 05:27 End – 07:12	12 12	2 3	7 5	0 0	No
T85	1 – 21/06/2022	Dusk	21:42	Start – 21:27 End – 23:12	18 15	4 3	0 0	0 0	No
	2 - 12/07/2022	Dawn	04:49	Start – 03:31 End – 05:08	20 19	2 2	8 8	0 0	No
T87	1 – 16/06/2021	Dusk	21:40	Start - 21:25 End – 23:10	18 14	5 1	8 8	0 0	No
	2 – 21/07/2021	Dawn	05:10	Start - 3:40 End – 5:25	14 15	0 0	0 0	0 0	No
	3 – 23/09/2021	Dusk	20:02	Start - 18:54 End – 20:39	17 15	3 1	4 3	0 0	Yes
T88	1 – 06/08/2021	Dusk	20:57	Start - 20:40 End – 22:30	17 12	4 4	5 6	0 0	No
	2 – 19/08/2021	Dusk	20:25	Start - 20:10 End – 22:00	17 15	1 1	6 7	0 0	No
	3 – 07/06/2022	Dawn	04:47	Start – 03:17 End –05:02	11 12	1 1	8 8	0 0	No
T91	1 – 19/08/2021	Dusk	20:25	Start - 20:10 End – 22:00	17 15	1 1	6 7	0 0	No
	2 – 07/06/2022	Dawn	04:47	Start – 03:17 End –05:02	12 12	1 1	8 7	0 0	No
T93	1 – 15/06/2022	Dusk	21:41	Start – 21:25 End –23:41	15 13	2 1	1 1	0 0	No
T94	1 – 19/08/2021	Dusk	20:25	Start - 20:10 End – 22:00	17 15	1 1	6 7	0 0	No
	2 – 14/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	9 8	2 1	3 3	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	3 – 06/07/2022	Dusk	21:40	Start – 21:25 End – 23:10	18 17	4 4	8 8	0 0	No
T97	1 – 12/08/2021	Dusk	20:15	Start – 20:30 End – 22:15	18 17	2 3	6 8	0 0	No
T99	1 - 12/08/2021	Dusk	20:15	Start – 20:30 End – 22:15	18 17	2 3	6 8	0 0	No
T100	1 - 12/08/2021	Dusk	20:15	Start – 20:30 End – 22:15	18 17	2 3	6 8	0 0	No
T101	1 - 12/08/2021	Dusk	20:15	Start – 20:30 End – 22:15	18 17	2 3	6 8	0 0	No
T102	1 – 16/06/2021	Dawn	04:44	Start – 3:13 End – 5:00	14 11	0 0	1 6	0 0	No
	2 – 21/07/2021	Dusk	21:24	Start – 21:10 End – 23:08	23 20	1 1	0 0	0 0	No
	3 – 17/08/2021	Dusk	20:36	Start – 20:21 End – 22:06	16 16	3 4	8 8	0 2	No
T105	1 – 05/10/2021	Dusk	18:40	Start – 18:25 End – 20:10	13 12	6 6	2 4	0 0	No
T109	1 – 11/05/2022	Dusk	20:57	Start – 20:42 End – 22:27	12 11	0 0	4 3	0 0	No
	2 – 29/06/2022	Dawn	04:47	Start – 03:17 End – 05:02	13 13	1 1	8 9	1 1	No
T110	1 – 11/05/2022	Dusk	20:57	Start – 20:42 End – 22:27	12 12	5 5	2 3	0 0	No
	2 – 29/06/2022	Dawn	04:47	Start – 03:17 End – 05:02	13 13	3 2	7 7	0 0	No
T111	1 – 11/05/2022	Dusk	20:57	Start – 20:42 End – 22:27	13 11	1 1	2 1	0 0	No
	2 – 29/06/202	Dawn	04:47	Start – 03:17 End – 05:02	14 13	0 0	7 8	1 2	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	3 – 17/08/2022	Dawn	05:55	Start – 04:25 End: 06:10	15 15	2 2	8 8	1 1	No
T116	1 – 08/06/2021	Dusk	21:35	Start – 21:20 End - 23:05	22 15	1 1	2 1	0 0	No
	2 – 23/06/2021	Dawn	04:45	Start - 3:15 End – 5:00	9 7	1 1	0 0	0 0	No
T117	1 – 08/06/2021	Dusk	21:35	Start – 21:20 End – 23:05	18 16	1 1	0 0	0 0	No
	2 – 23/06/2021	Dawn	04:45	Start – 3:15 End – 5:00	9 10	1 1	5 5	0 0	No
T118	1 – 08/06/2021	Dusk	21:35	Start – 21:20 End – 23:05	16 12	1 1	0 0	0 0	No
	2 – 23/06/2021	Dawn	04:45	Start – 3:15 End – 5:00	8 8	0 0	0 0	0 0	No
T137	1 – 04/08/2022	Dawn	05:33	Start – 04:03 End – 05:48	15 15	2 3	7 7	0 0	No
	2 – 25/08/2022	Dusk	20:16	Start – 20:01 End – 21:46	17 15	2 2	3 1	0 0	No
T144	1 – 23/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	10 11	2 1	0 0	0 0	No
	2 – 05/07/2022	Dusk	21:40	Start – 21:25 End – 23:10	16 16	0 0	7 8	0 0	No
T145	1 – 23/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	12 11	1 1	1 0	0 0	No
	2 – 05/07/2022	Dusk	21:39	Start – 21:25 End – 23:10	16 16	1 1	7 8	0 0	No
T147	1 – 18/05/2022	Dusk	21:08	Start – 20:53 End – 22:38	14 13	4 4	7 7	1 0	No
	2 – 07/07/2022	Dawn	04:53	Start – 03:24 End – 05:08	14 14	4 4	8 8	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
T148	1 – 17/05/2022	Dusk	21:07	Start – 20:52 End – 22:37	15 13	3 1	5 1	1 0	No
	2 – 06/07/2022	Dawn	04:52	Start – 03:23 End – 05:08	16 16	1 2	8 8	0 0	No
T149	1 – 17/05/2022	Dusk	21:07	Start – 20:52 End – 22:37	15 13	3 4	5 4	1 0	No
	2 – 06/07/2022	Dawn	04:53	Start – 03:23 End – 05:08	16 15	2 4	7 8	0 0	No
T152	1 – 17/05/2022	Dusk	21:07	Start – 20:52 End – 22:37	17 14	4 2	5 4	0 0	No
	2 – 06/07/2022	Dawn	04:53	Start – 03:23 End – 05:08	16 15	4 4	8 8	0 0	No
T159	1 – 10/06/2021	Dawn	04:46	Start – 03:16 End – 05:01	18 17	0 1	7 7	0 0	No
	2 – 15/07/2021	Dusk	21:32	Start – 21:17 End – 23:02	20 13	1 1	0 0	0 0	No
	3 – 23/08/2021	Dusk	20:23	Start – 20:08 End – 21:53	17 18	3 2	4 4	0 0	No
T164	1 - 18/05/2022	Dusk	21:08	Start – 20:53 End – 22:38	14 13	4 3	8 4	0 0	No
	2 - 07/07/2022	Dawn	04:54	Start – 03:24 End – 05:09	15 14	4 3	8 8	1 0	No
T165	1 - 18/05/2022	Dusk	21:08	Start – 20:53 End – 22:38	16 13	3 4	8 7	1 0	No
	2 - 07/07/2022	Dawn	04:54	Start – 03:24 End – 05:09	14 14	3 3	8 8	1 0	No
T166	1 - 02/08/2021	Dusk	21:00	Start – 20:45 End – 22:40	13 13	2 2	8 8	0 0	No
	2 – 18/05/2022	Dawn	05:08	Start – 03:38 End – 05:12	11 10	1 1	2 1	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	3 – 15/08/2022	Dusk	20:39	Start – 20:24 End – 22:09	19 18	1 1	7 8	1 0	No
T167	1 – 29/06/21	Dusk	21:43	Start – 21:28 End –23:13	17 16	1 1	6 8	0 0	No
	2 – 03/08/2021	Dawn	05:30	Start – 4:00 End – 5:46	10 8	1 1	8 8	0 0	No
T168	1 - 02/08/2021	Dusk	21:00	Start – 20:45 End – 22:40	14 13	2 2	8 8	0 0	No
	2 – 12/07/2022	Dusk	21:35	Start – 21:20 End – 23:05	22 20	2 1	6 6	0 0	No
	3 – 04/08/2022	Dawn	05:33	Start – 04:33 End – 05:48	16 15	1 1	7 3	0 0	No
T169	1 - 02/08/2021	Dusk	21:00	Start – 20:45 End – 22:40	14 13	2 2	8 8	0 0	No
T170	1 - 02/08/2021	Dusk	21:00	Start – 20:45 End – 22:40	14 13	2 2	8 8	0 0	No
T171	1 - 03/08/2021	Dusk	21:04	Start – 20:49 End – 22:34	17 16	2 2	3 6	0 0	No
T172	1 - 03/08/2021	Dusk	21:04	Start – 20:49 End – 22:34	17 16	2 2	3 6	0 0	No
	2 – 19/05/2022	Dawn	05:06	Start – 03:36 End – 05:21	10 9	1 1	5 4	0 0	No
T173	1 - 03/08/2021	Dusk	21:04	Start – 20:45 End – 22:30	17 16	2 2	3 6	0 0	No
	2 – 18/05/2022	Dawn	05:07	Start – 03:37 End – 05:11	11 10	1 1	0 1	0 0	No
T174	1 - 03/08/2021	Dusk	21:04	Start – 20:45 End – 22:30	17 16	2 2	3 6	0 0	No
	2 – 18/05/2022	Dawn	05:07	Start – 03:37 End – 05:11	11 10	1 1	0 1	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
T175	1 - 04/08/2021	Dawn	05:33	Start – 04:00 End – 05:48	11 11	1 1	3 2	0 0	No
	2 – 19/05/2022	Dusk	21:10	Start – 20:55 End – 22:40	15 13	1 1	7 7	0 0	No
T190	1 – 15/06/2022	Dusk	21:41	Start – 21:26 End – 23:11	15 13	2 2	1 1	0 0	No
	2 – 29/07/2022	Dawn	05:23	Start – 03:33 End – 05:38	15 14	1 1	8 8	0 0	No
	3 – 15/08/2022	Dusk	20:40	Start – 20:25 End – 22:10	18 17	1 0	7 7	1 0	No
T193	1 – 12/08/2021	Dusk	20:15	Start – 20:30 End – 22:15	18 18	3 3	7 8	0 0	No
	2 – 23/09/2021	Dawn	06:58	Start – 5:28 End – 7:13	17 17	0 0	8 8	0 1	Yes
T197	1 – 19/05/2022	Dawn	05:06	Start – 03:36 End – 05:21	10 9	3 2	5 3	0 0	No
	2 – 14/07/2022	Dusk	21:32	Start – 21:17 End – 23:02	16 14	2 2	3 1	0 0	No
T198	1 – 24/05/2021	Dusk	21:18	Start – 21:03 End – 22:48	11 10	2 1	8 8	0 0	No
	2 – 26/07/2021	Dusk	21:17	Start – 21:03 End – 22:48	18 17	0 0	3 3	0 0	No
	3 – 22/09/2021	Dawn	06:57	Start – 5:27 End – 7:12	10 9	1 1	4 5	0 0	No
T200	1 – 26/07/2021	Dusk	21:17	Start – 21:03 End – 22:48	17 16	1 1	1 1	0 0	No
	2 – 22/09/2021	Dawn	06:57	Start – 5:27 End – 7:12	11 9	1 1	1 1	0 0	Yes
T201	1 – 24/05/2021	Dusk	21:18	Start – 21:02 End – 22:47	11 11	3 2	4 7	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	2 – 27/07/2021	Dawn	05:19	Start – 3:55 End – 5:34	16 15	0 0	8 8	0 0	No
T203	1 – 25/05/2021	Dusk	21:18	Start – 21:04 End – 22:49	11 11	2 1	8 7	0 0	No
	2 – 27/07/2021	Dawn	05:19	Start – 3:55 End – 5:34	15 15	1 1	7 1	0 0	No
T204	1 – 14/06/2021	Dusk	21:40	Start – 21:25 End – 23:10	15 13	0 0	0 0	0 0	No
	2 – 28/07/2021	Dawn	05:19	Start – 3:51 End – 5:37	20 18	4 2	8 8	1 0	No
T205	1 – 26/07/2021	Dusk	21:17	Start – 21:07 End – 22:47	20 17	2 3	6 7	0 0	No
T206	1 – 25/05/2021	Dusk	21:18	Start – 21:04 End – 22:49	13 13	4 4	8 8	0 0	No
	2 – 28/07/2021	Dawn	05:19	Start – 3:51 End – 5:26	16 15	3 2	8 8	1 0	No
T214	1 – 04/08/2021	Dusk	21:00	Start – 20:46 End – 22:31	18 17	1 1	6 7	0 0	No
T215	1 – 04/08/2021	Dusk	21:00	Start – 20:45 End – 22:30	18 17	1 1	6 7	0 0	No
	2 – 08/06/2022	Dawn	04:47	Start – 03:17 End – 05:02	14 14	2 1	7 6	0 0	No
T216	1 - 04/08/2021	Dusk	21:00	Start – 20:45 End – 22:30	18 17	1 1	6 7	0 0	No
T217	1 – 04/08/2021	Dusk	21:00	Start – 20:45 End – 22:30	18 17	1 1	6 7	0 0	No
T218	1 – 04/08/2021	Dusk	21:00	Start – 20:45 End – 22:30	18 17	1 1	6 7	0 0	No
T219	1 – 04/08/2021	Dusk	21:00	Start – 20:45 End – 22:30	18 17	1 1	6 7	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	2 – 10/05/2022	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3 – 03/08/2022	Dawn	05:31	Start – 04:01 End – 05:46	18 17	3 2	5 4	0 0	No
T220	1 – 04/08/2021	Dusk	21:00	Start – 20:45 End – 22:30	18 17	1 1	6 7	0 0	No
	2 – 03/08/2022	Dawn	05:35	Start – 04:01 End – 05:46	18 17	3 2	3 4	0 0	No
	3 – 22/08/2022	Dusk	20:35	Start – 20:20 End – 21:54	20 17	0 0	5 7	0 0	No
T222	1 – 08/06/2022	Dusk	21:36	Start – 21:21 End – 23:06	15 14	1 1	2 3	0 0	No
	2 – 19/07/2022	Dawn	05:08	Start – 03:38 End – 05:13	23 21	0 0	1 1	0 0	No
T223	1 – 07/07/2022	Dusk	21:38	Start – 21:23 End – 23:08	17 15	2 1	3 1	0 0	No
	2 – 21/07/2022	Dawn	05:11	Start – 04:41 End – 05:26	15 15	3 3	8 8	0 0	No
T225	1 – 03/08/2022	Dawn	05:51	Start – 04:01 End – 05:46	18 17	4 4	2 2	0 0	No
	2 – 22/08/2022	Dusk	20:25	Start – 20:10 End – 21:55	18 16	2 1	4 4	0 0	No
T228	1 – 08/06/2022	Dusk	21:35	Start – 21:20 End – 23:05	16 13	2 1	2 4	0 0	No
T230	1 – 03/08/2022	Dawn	05:31	Start – 04:01 End – 05:46	17 15	3 or 4 3 or 4	1 1	0 0	No
	2 – 25/08/2022	Dusk	20:16	Start – 20:01 End – 21:46	16 13	2 2	1 1	0 0	No
T234	1 – 29/09/2021	Dusk	18:54	Start – 18:39 End – 20:09	12 10	0 0	2 5	0 0	No
	2 – 13/07/2022	Dusk	21:34	Start – 21:19	15	2	2	0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
				End – 23:04	14	0	0	0	
	3 – 04/08/22	Dawn	05:33	Start – 04:03 End – 05:48	15 15	2 2	8 6	0 0	No
T238	1 – 13/07/2022	Dawn	05:00	Start – 03:30 End – 05:19	17 15	4 3	7 6	0 0	No
	2 – 02/08/2022	Dusk	21:05	Start – 20:50 End – 22:35	21 20	3 3	6 6	0 0	No
	3 – 23/08/2022	Dusk	20:22	Start – 20:07 End – 21:52	20 21	0 0	7 3	1 0	No
T240	1 – 11/08/2021	Dusk	20:50	Start – 20:35 End – 22:20	18 16	1 1	1 1	0 0	No
T241	1 – 11/08/2021	Dusk	20:50	Start – 20:35 End – 22:20	18 16	1 1	1 1	0 0	No
T248	1 – 30/06/2021	Dawn	04:47	Start – 3:08 End – 4:53	15 13	1 1	4 4	0 0	No
	2 – 19/07/2021	Dusk	21:27	Start – 21:12 End – 22:57	24 20	1 1	2 1	0 0	No
T254	1 – 10/05/2022 Tree inspection using endoscope.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2 – 04/08/2022	Dawn	05:33	Start – 04:03 End – 05:48	14 15	3 3	6 7	0 0	No
	3 – 24/08/2022	Dusk	20:20	Start – 20:48 End – 22:43	16 15	1 1	6 ?	0 0	No
T255	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T261	1 – 02/09/2021	Dusk	19:59	Start - 19:44 End - 21:29	18 16	0 0	2 0	0 0	No
T265	1 – 10/05/2022	Dusk	20:57	Start – 20:41 End – 22:26	13 13	2 2	8 8	0 0	No
T267	1 – 13/08/2021	Dusk	20:43	Start – 20:30	19	3	5	0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
				End – 22:15	16	2	6	0	
	2 – 28/09/2021	Dawn	07:07	Start – 5:37 End – 7:07	11 11	2 2	5 8	0 0	No
T272	1 – 16/06/2022	Dawn	04:44	Start – 03:15 End – 05:00	8 9	1 1	0 0	0 0	No
	2 – 12/07/2022	Dusk	21:36	Start – 21:19 End – 23:04	20 10	1 2	6 7	0 0	No
T273	1 – 16/06/2022	Dusk	21:20	Start – 21:27 End – 23:11	19 18	1 1	7 8	0 0	No
	2 – 12/07/2022	Dusk	21:36	Start – 21:19 End – 23:04	22 19	1 2	4 6	0 0	No
T274	1 – 16/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	9 8	1 2	1 2	0 0	No
	2 – 12/07/2022	Dusk	21:36	Start – 21:20 End – 23:05	21 19	2 2	1 7	0 0	No
T275	1 - 10/08/2021	Dusk	20:49	Start – 20:35 End - 22:20	17 16	1 1	2 2	0 0	No
	2 - 11/05/2022	Dawn	05:17	Start – 03:47 End – 05:32	12 11	1 1	5 5	0 1	No
T276	1 - 10/08/2021	Dusk	20:49	Start – 20:35 End – 22:20	17 16	1 1	2 2	0 0	No
	2 - 12/05/2022	Dawn	05:17	Start – 03:48 End – 05:33	8 8	1 0	1 0	0 0	No
T277	1 – 09/08/2021	Dawn	05:42	Start – 3:52 End – 6:00	13 12	1 1	8 8	1 0	No
	2 – 20/10/2021 Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T278	1 – 09/08/2021	Dawn	05:42	Start – 3:52 End – 6:00	13 12	1 1	8 8	0 0	No
	2 – 20/10/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	Climb as visit								
T279	1 – 09/08/2021	Dawn	05:42	Start – 3:52 End – 6:00	13 12	1 1	8 8	0 0	No
	2 – 13/07/2022	Dusk	21:33	Start – 21:18 End – 23:03	17 14	1 1	2 1	0 0	No
T283	1 – 13/07/2022	Dawn	05:00	Start – 03:31 End – 05:16	17 16	3 4	8 4	0 0	No
	2 – 04/08/2022	Dusk	21:01	Start – 20:46 End – 22:31	17 15	2 2	2 3	0 0	No
	3 – 24/08/2022	Dusk	21:19	Start – 20:04 End – 21:49	17 16	0 0	6 7	0 0	No
T284	1 – 12/07/2022	Dusk	21:35	Start – 21:20 End – 23:05	22 19	2 2	4 4	0 0	No
	2 – 25/08/2022	Dawn	06:09	Start – 04:39 End – 06:24	15 15	2 2	8 4	0 0	No
T286	1 – 14/06/2022	Dawn	04:44	Start – 03:15 End – 05:00	9 8	1 1	0 1	0 0	No
	2 – 13/07/2022	Dusk	21:33	Start – 21:18 End – 23:03	17 14	2 2	2 1	0 0	No
T288	1 – 23/08/2021	Dusk	20:20	Start – 20:00 End – 21:50	20 18	1 1	3 4	0 0	No
	2 – 30/06/2022	Dawn	04:48	Start – 03:18 End – 05:03	12 11	0 0	8 8	1 0	No
T292	1 – 22/06/2022	Dawn	04:45	Start – 03:14 End – 04:59	13 12	2 1	1 2	0 0	No
	2 – 14/07/2022	Dusk	21:31	Start – 21:17 End – 23:02	16 14	3 0	3 3	0 0	No
T293	1 – 22/06/2022	Dawn	04:45	Start – 03:14 End – 04:59	13 13	1 1	0 1	0 0	No
	2 – 14/07/2022	Dusk	21:31	Start – 21:17	17	2	3	0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
				End – 23:02	14	1	2	0	
T295	1 – 11/08/2021	Dawn	05:44	Start - 4:02 End – 5:50	14 12	2 3	8 7	0 0	No
	2 – 23/09/2021	Dusk	19:07	Start – 18:52 End – 20:37	16 16	2 1	5 8	0 0	Yes
T296	1 – 11/08/2021	Dawn	05:44	Start - 4:15 End – 6:00	13 13	1 1	2 1	0 0	No
	2 – 29/09/2021	Dusk	18:54	Start – 18:39 End – 20:24	12 9	2 0	6 5	0 0	Yes
T297	1 – 11/08/2021	Dawn	05:44	Start – 4:15 End – 6:00	13 13	1 1	2 1	0 0	No
	2 – 19/05/2022	Dusk	21:10	Start – 20:55 End – 22:40	15 13	3 3	4 7	0 0	No
T302	1 –13/06/2022	Dusk	21:39	Start – 21:24 End – 23:09	14 12	0 0	1 1	0 0	No
	2 – 14/07/2022	Dawn	05:02	Start – 03:52 End – 05:17	12 13	2 2	7 8	0 0	No
T304	1 – 13/06/2022	Dusk	21:39	Start – 21:24 End – 23:09	14 12	0 0	1 1	0 0	No
	2 – 14/07/2022	Dawn	05:02	Start – 03:32 End – 05:17	12 13	2 2	8 7	0 0	No
T309	1 – 14/06/2022	Dusk	21:40	Start – 21:25 End – 23:10	15 12	0 0	1 0	0 0	No
T317	1 – 15/06/2022	Dusk	21:40	Start – 03:32 End – 05:17	16 13	0 0	0 0	0 0	No
	2 – 14/07/2022	Dawn	05:02	Start – 03:32 End – 05:17	13 13	0 1	8 7	0 0	No
T318	1 – 13/07/2022	Dawn	05:00	Start – 03:50 End – 05:15	17 16	1 2	8 8	1 0	No
	2 – 02/08/2022	Dusk	21:05	Start – 20:50	22	4	6	0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
				End – 22:35	20	3	6	0	
	3 – 23/08/2022	Dusk	20:20	Start – 20:05 End – 21:50	20 19	2 1	8 7	0 0	No
T321	1 – 13/07/2022	Dawn	05:00	Start – 03:50 End – 05:15	17 16	1 2	7 7	0 0	No
	2 – 04/08/2022	Dusk	21:02	Start – 20:47 End – 22:32	15 13	1 1	1 2	0 0	No
	3 – 23/08/2022	Dusk	22:02	Start – 20:05 End – 21:50	20 19	1 1	6 4	1 0	No
T324	1 – 10/05/2022	Dusk	20:55	Start – 20:40 End – 22:25	14 13	2 2	3 5	0 0	No
	2 - 14/07/2022	Dawn	05:01	Start – 03:29 End – 05:16	12 13	1 2	7 7	0 0	No
	3 - 17/08/2022	Dusk	20:35	Start – 20:20 End – 22:05	18 16	1 1	8 8	0 0	No
T325	1 – 10/08/2021	Dusk	20:49	Start – 20:30 End – 22:22	17 15	1 1	7 7	0 0	No
	2 – 23/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	12 12	1 1	1 1	0 0	No
	3 – 13/07/2022	Dusk	21:34	Start – 21:21 End - 23:06	16 ?	1 ?	2 ?	0 ?	No
T327	1 – 10/08/2021	Dusk	20:49	Start – 20:30 End – 22:22	17 15	1 1	7 7	0 0	No
	2 - 12/05/2022	Dawn	05:18	Start – 03:47 End – 05:32	9 8	1 1	1 1	0 0	No
T329	1 – 10/08/2021	Dusk	20:49	Start – 20:30 End – 22:22	17 15	1 1	7 7	0 0	No
	2 - 12/05/2022	Dawn	05:18	Start – 03:47 End – 05:32	9 9	1 1	1 1	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
T331	1 – 10/08/2021	Dusk	20:49	Start – 20:30 End – 22:22	17 15	1 1	7 7	0 0	No
	2 – 11/05/2022	Dusk	20:57	Start – 03:50 End – 04:30	12 11	2 2	2 3	0 2	No
T332	1 – 10/08/2021	Dusk	20:49	Start – 20:30 End – 22:22	17 15	1 1	7 7	0 0	No
	2 – 10/05/2022	Dawn	05:22	Start – 03:50 End – 04:30	13 12	2 2	2 2	0 0	No
T336	1 –08/09/2021	Dawn	06:32	Start – 5:02 End – 6:47	16 14	0 0	0 0	0 0	No
	2 – 29/06/2022	Dusk	21:42	Start – 21:27 End – 23:12	15 14	1 1	4 8	0 3	No
T338	1 – 08/09/2021	Dawn	06:32	Start – 5:02 End – 6:47	16 14	0 0	0 0	0 0	No
T338	1 – 21/07/21	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2 – 17/08/2021	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T339	1 – 14/07/2021	Dusk	21:33	Start – 21:18 End – 23:03	18 15	1 1	0 0	0 0	No
	2 – 12/08/2021	Dawn	04:00	Start – 04:15 End – 06:00	11 11	2 3	7 7	0 0	No
T340	1 – 14/07/2021	Dusk	21:33	Start – 21:18 End – 23:03	17 15	0 1	0 1	0 0	No
	2 – 12/08/2021	Dawn	04:00	Start – 4:15 End – 6:01	11 11	2 3	7 7	0 0	No
	3 – 21/09/2021	Dusk	19:12	Start – 18:57 End – 20:42	16 14	0 0	7 8	0 0	Yes
T345	1 – 09/08/2021	Dusk	20:50	Start – 20:35 End – 22:20	17 15	2 2	6 7	0 0	No
	2 – 29/09/2021	Dawn	07:10	Start – 5:39 End – 7:09	12 11	2 2	8 8	1 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
T349	1 – 09/08/2021	Dusk	20:50	Start – 20:35 End – 22:20	17 15	2 2	6 7	0 0	No
	2 – 06/10/2021	Dawn	07:10	Start – 05:51 End – 07:21	12 11	5 5	4 3	0 0	No
T350	1 – 09/06/2022	Dawn	04:48	Start – 03:16 End – 05:01	11 11	2 2	1 2	0 0	No
	2 – 06/07/2022	Dusk	21:40	Start – 21:25 End – 23:10	18 16	4 4	8 8	0 0	No
T355	1 – 07/09/2021	Dawn	06:31	Start – 5:01 End – 6:46	15 13	0 0	8 8	0 0	Yes
T358	1 – 30/06/2021	Dusk	21:43	Start – 21:27 End – 23:12	15 15	1 1	3 2	0 0	No
	2 – 07/09/2021	Dawn	06:31	Start – 5:01 End – 6:46	12 12	1 1	8 3	0 0	No
T359	1 – 07/09/2021	Dawn	06:31	Start – 5:01 End – 6:46	12 12	0 0	8 8	0 0	No
T364	1 – 07/06/2022	Dusk	21:34	Start – 21:19 End – 23:04	16 16	2 2	8 8	1 0	No
	2 – 13/07/2022	Dawn	05:00	Start – 03:38 End – 05:10	20 18	2 2	8 8	0 0	No
T365	1 – 07/06/2022	Dusk	21:34	Start – 21:19 End – 23:04	13 16	3 2	8 8	1 0	No
	2 – 12/07/2022	Dawn	04:59	Start – 03:29 End – 05:14	20 20	2 2	8 8	0 0	No
	3 – 16/08/2022	Dawn	05:54	Start – 04:24 End – 06:09	16 17	3 2	8 8	0 0	No
T371	1 – 10/05/2022	Dusk	20:55	Start – 20:43 End – 22:31	13 13	2 2	2 2	0 0	No
	2- 19/07/2022	Dawn	05:08	Start – 03:38 End – 05:23	22 22	1 2	2 2	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	3 - 22/09/2022	Dusk	19:11	Start – 18:55 End – 20:40	14 14	0 0	7 7	1 0	No
T378	1 – 22/06/2022	Dusk	21:43	Start – 20:28 End – 23:12	19 16	1 1	1 1	0 0	No
	2 - 12/07/2022	Dawn	04:59	Start – 03:29 End – 05:14	20 21	1 2	7 7	0 0	No
T382	1 – 03/09/2021	Dawn	06:25	Start – 4:55 End - 6:30	14 14	1 1	8 8	0 0	No
	2 – 16/06/2022	Dawn	04:45	Start – 03:13 End – 05:01	9 8	0 0	1 3	0 0	No
T387	1 – 17/08/2021	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2 - 22/09/2021	Dusk	19:10	Start - 18:55 End - 20:40	18 14	3 1	6 1	0 0	Yes
T393	1 – 16/06/2022	Dusk	21:42	Start – 21:25 End – 23:10	19 19	1 2	6 7	0 0	No
	2 – 29/07/2022	Dawn	05:23	Start – 03:54 End – 05:39	14 15	1 1	8 8	0 0	No
T401	1 – 09/06/2022	Dawn	04:47	Start – 03:17 End – 05:02	10 9	2 1	1 2	0 0	No
	2 – 19/07/2022	Dusk	21:26	Start – 21:11 End – 22:56	24 20	1 2	2 2	0 0	No
T402	1 – 14/06/2022	Dawn	04:44	Start – 03:12 End – 04:44	7 7	1 1	1 2	0 0	No
	2 – 19/07/2022	Dusk	21:26	Start – 21:12 End – 22:57	22 21	0 0	2 2	0 0	No
T403	1 – 28/07/2022	Dawn	05:21	Start – 03:51 End – 05:36	13 13	1 1	8 8	0 0	No
	2 – 20/09/2022	Dusk	19:14	Start – 19:00 End – 20:45	16 14	2 1	8 7	0 0	No
T411	1 – 10/05/2022	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	2 – 28/06/2022	Dawn	04:47	Start – 03:17 End – 05:02	12 12	1 0	7 7	0 0	No
T417	1 – 24/08/2021	Dusk	20:23	Start – 20:08 End – 21:53	20 16	0 0	4 4	0 0	No
T434	1 – 21/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	9 9	2 2	4 3	0 0	No
	2 – 05/07/2022	Dusk	21:40	Start – 21:25 End – 23:10	15 15	1 0	8 8	0 0	No
T435	1 – 21/06/2022	Dawn	04:44	Start – 03:14 End – 04:59	7 7	1 1	2 2	0 0	No
T437	1 – 15/06/2021	Dusk	21:40	Start – 21:25 End – 23:10	19 17	0 0	1 2	0 0	No
	2 – 15/07/2021	Dawn	05:02	Start – 3:32 End - 5:17	17 18	2 2	4 8	0 0	No
T438	1 – 15/06/2021	Dusk	21:40	Start – 21:25 End – 23:10	21 17	1 1	0 0	0 0	No
	2 – 15/07/2021	Dawn	05:02	Start - 3:32 End – 5:17	19 19	1 1	8 8	0 0	No
T449	1 – 12/05/2022	Dusk	20:59	Start – 20:44 End – 22:29	13 12	3 3	5 8	0 0	No
	2 - 27/07/2022	Dawn	05:20	Start – 03:50 End – 05:35	11 10	1 1	2 2	0 0	No
T451	1 – 12/05/2022	Dusk	20:59	Start – 20:44 End – 22:29	12 12	2 3	7 8	0 0	No
T452	1 - 30/06/2021	Dusk	21:42	Start – 21:27 End – 23:12	16 13	0 0	1 7	0 0	No
	2 - 15/07/2021	Dawn	05:02	Start - 3:32 End - 5:17	17 16	3 4	4 8	0 0	No
T453	1 -24/05/2022	Dusk	21:17	Start – 21:02 End – 22:47	14 12	2 2	2 5	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	Sunrise/~~sunset time~~Sunset Time	Start/End Times	Temperature Start/End (°C)	Wind Start/End (Beaufort)	Cloud Start/End (out of 8)	Rain Start/End (out of 5)	Was the Infra-red ~~camera~~Camera used?
	2 -20/07/2022	Dawn	05:09	Start – 03:39 End – 05:24	18 17	3 4	5 6	0 0	No
T454	1 -24/05/2022	Dusk	21:17	Start – 21:02 End – 22:47	14 11	3 1	1 2	0 0	No
	2 -20/07/2022	Dawn	05:09	Start – 03:39 End – 05:24	18 17	3 3	7 7	0 0	No
T456	1 – 07/10/2021	Dawn	07:23	Start – 5:53 End – 7:38	14 14	1 2	6 7	0 0	No
T461	1 – 08/09/2021	Dusk	19:44	Start – 19:29 End – 21:14	23 21	0 1	6 5	0 0	No
	2 – 22/06/2022	Dawn	04:45	Start – 03:15 End – 05:00	12 14	2 1	0 0	0 0	No
T462	1 – 08/09/2021	Dusk	19:44	Start – 19:29 End – 21:14	24 19	0 0	7 7	0 0	No
	2 – 15/06/2022	Dawn	04:44	Start – 03:15 End – 05:00	10 8.5	1 1	1 1	0 0	No
T464	1 – 15/06/2022	Dusk	21:41	Start – 21:26 End – 23:11	16 14	1 1	1 1	0 0	No
	2 – 29/07/2022	Dawn	05:24	Start – 03:49 End – 05:38	15 15	1 1	7 8	0 1	No

Annex G

BATS STRUCTURE AND TREES PHOTO SUPPLEMENT (TRACKED CHANGE)

Table 1~~1~~ ~~0~~– Structure Photographs

	
Photograph 1 - B1	Photograph 2 - B2
	
Photograph 3 - B3	Photograph 4 - B4

	
Photograph 5 - B6	Photograph 6 - B8
	
Photograph 7 - B9	Photograph 8 - B10

	
Photograph 9 - B11	Photograph 10 - B12
	
Photograph 11 - B13	Photograph 12 - B14

	
Photograph 13 - B15	Photograph 14 - B16
	
Photograph 15 - B17	Photograph 16 - B18

	
Photograph 17 - B19	Photograph 18 - B20
	
Photograph 19 - B21	Photograph 20 - B22

	
Photograph 21 - B23	Photograph 22 - B24
	
Photograph 23 - B25	Photograph 24 - B26

	
Photograph 25 - B27	Photograph 26 - B28
	
Photograph 27 - B29	Photograph 28 - B30

	
Photograph 29 - B31	Photograph 30 - B32
	
Photograph 31 - B33	Photograph 32 - B34

	
Photograph 33 - B35	Photograph 34 - B36
	
Photograph 35 - B37	Photograph 36 - B38

	
Photograph 37 - B39	Photograph 38 - B40
	
Photograph 39 - B41	Photograph 40 - B42

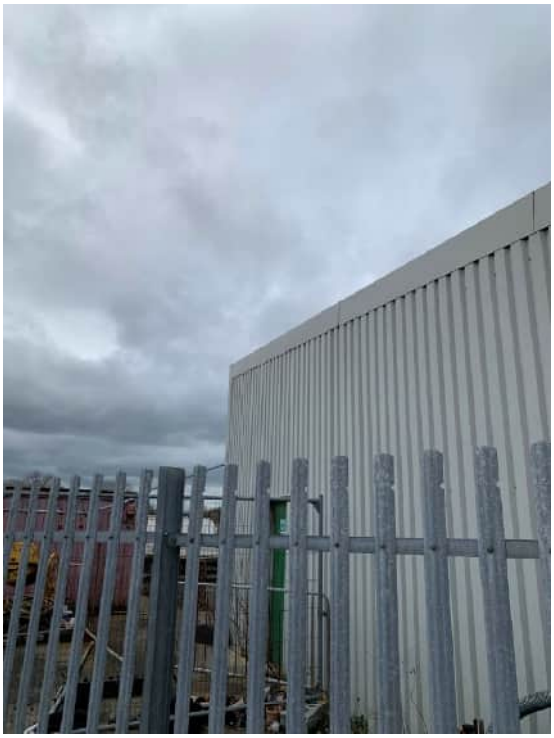
	
Photograph 41 - B43	Photograph 42 - B44
	
Photograph 43 - B45	Photograph 44 - B46

	
Photograph 45 - B47	Photograph 46 - B48
	
Photograph 47 - B49	Photograph 48 - B50

	
Photograph 49 - B51	Photograph 50 - B52
	
Photograph 51 - B53	Photograph 52 - B54

	
Photograph 53 - B55	Photograph 54 - B56
	
Photograph 55 - B57	Photograph 56 - B58

	
Photograph 57 - B59	Photograph 58 - B60
	
Photograph 59 - B61	Photograph 60 - B62

	
Photograph 61 - B63	Photograph 62 - B64
	
Photograph 63 - B65	Photograph 64 - B66

	
Photograph 65 - B67	Photograph 66 - B68
	
Photograph 67 - B69	Photograph 68 - B70

	
Photograph 69 - B71	Photograph 70 - B72
	
Photograph 71 - B73	Photograph 72 - B74

	
Photograph 73 - B75	Photograph 74 - B78
	
Photograph 75 - B79	Photograph 76 - B80

	
Photograph 77 - B81	Photograph 78 - B82
	
Photograph 79 - B83	Photograph 80 - B97

Photograph 81 - B98

Photograph 82 - B99

Photograph 83 - B113

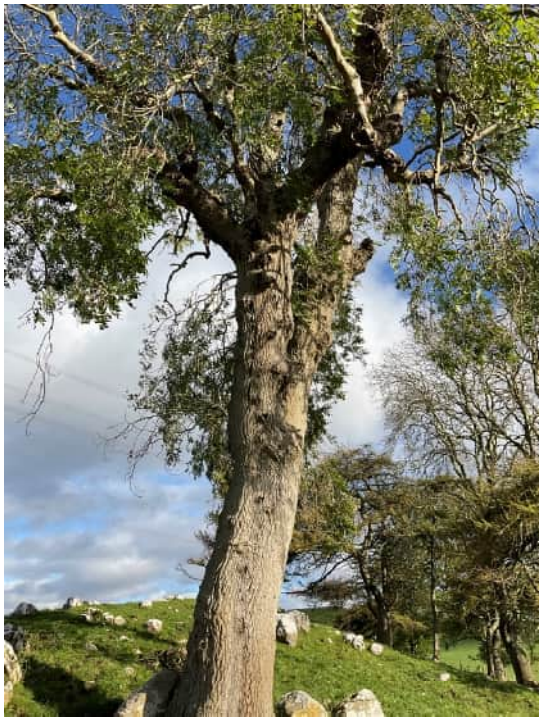
Photograph 84 - B122

Photograph 85 - B123	Photograph 86 - B124
	
Photograph 87 - B125	Photograph 88 - B126

	
Photograph 89 - B127	Photograph 90 - B133

~~Annex G- 2 - Tree photographs~~

Table 11 – Tree Photographs

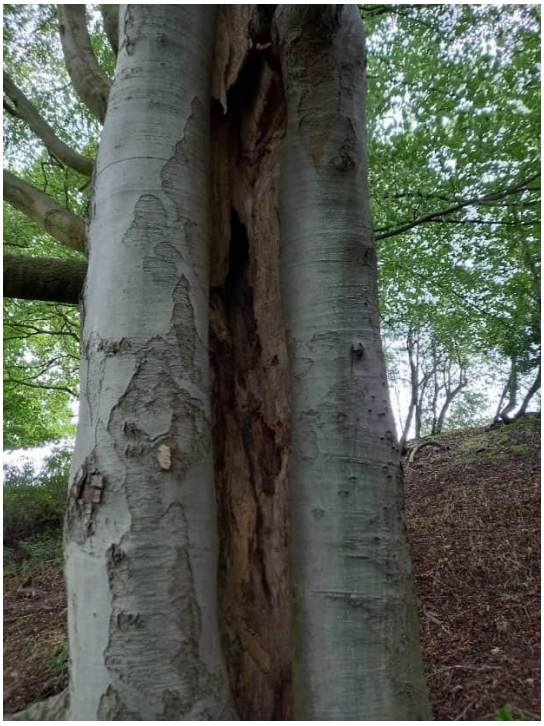
	
Photograph 1 – BB_T875	Photograph 2 – BB_T876
	
Photograph 3 – BB_T874	Photograph 4 – PH_T1

	
Photograph 5 – PH_T2	Photograph 6 – PH_T5
	
Photograph 7 – PH_T7	Photograph 8 – T1

	
Photograph 9 – T2	Photograph 10 – T3
	
Photograph 11 – T4	Photograph 12 – T5

	
Photograph 13 – T6	Photograph 14 – T7
	
Photograph 15 – T8	Photograph 16 – T9

	
Photograph 17 - T11	Photograph 18 - T12
	
Photograph 19 - T13	Photograph 20 - T14

	
Photograph 21 - T15	Photograph 22 - T16
	
Photograph 23 - T17	Photograph 24 - T18

	
Photograph 25 - T19	Photograph 26 - T20
	
Photograph 27 - T21	Photograph 28 - T22

	
Photograph 29 - T23	Photograph 30 - T24
	
Photograph 31 - T25	Photograph 32 - T26

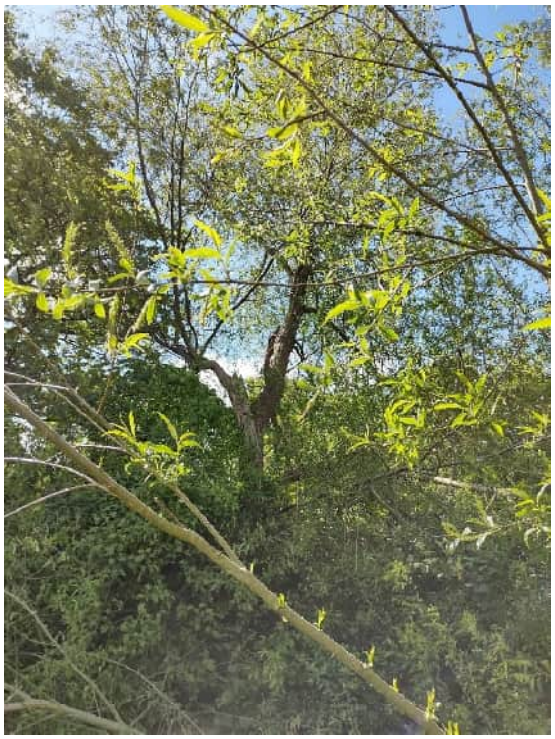
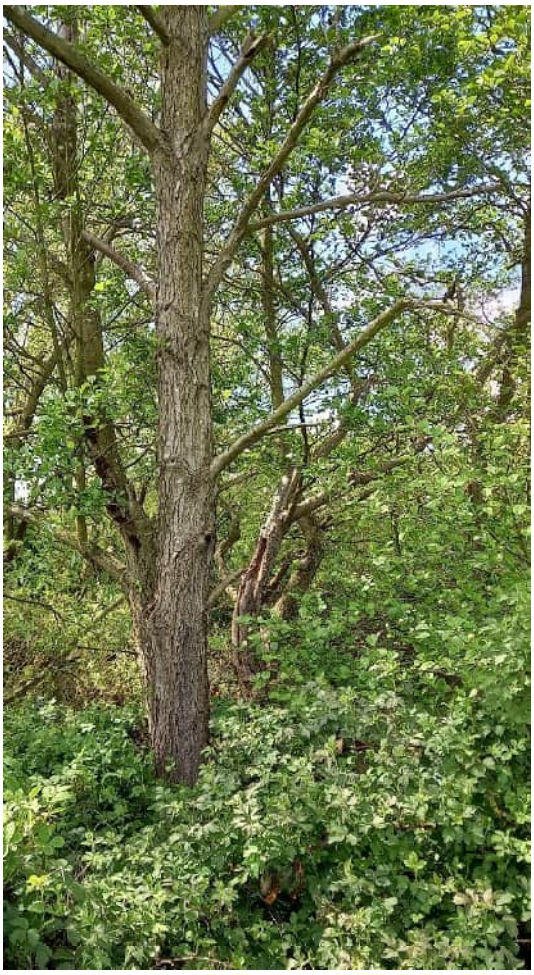
	
Photograph 33 - T27	Photograph 34 - T28
	
Photograph 35 - T29	Photograph 36 - T30

	
Photograph 37 - T31	Photograph 38 - T32
	
Photograph 39 - T33	Photograph 40 - T34

	
Photograph 41 - T35	Photograph 42 - T36
	
Photograph 43 - T37	Photograph 44 - T38

	
Photograph 45 - T39	Photograph 46 - T40
	
Photograph 47 – T41	Photograph 48 - T42

	
Photograph 49 - T43	Photograph 50 - T44
	
Photograph 51 - T45	Photograph 52 - T46

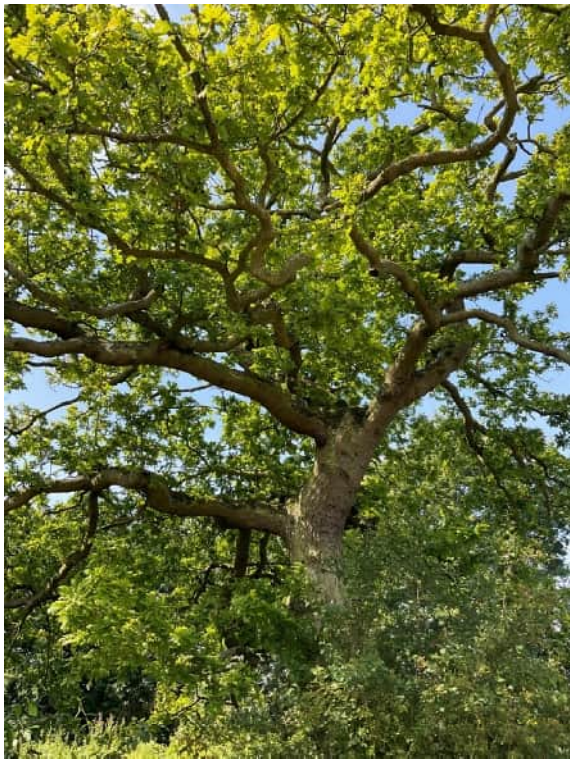
	
Photograph 53 - T47	Photograph 54 - T48
	

Photograph 55 - T49	Photograph 56 - T50
	
Photograph 57 - T52	Photograph 58 - T53
	
Photograph 59 - T54	Photograph 60 - T55

	
Photograph 61 - T56	Photograph 62 - T57
	
Photograph 63 - T58	Photograph 64 - T59

	
Photograph 65 - T60	Photograph 66 - T61
	
Photograph 67 - T62	Photograph 68 - T63

	
Photograph 69 - T64	Photograph 70 - T65
	
Photograph 71 - T66	Photograph 72 - T67

	
Photograph 73 - T68	Photograph 74 - T69
	
Photograph 75 - T70	Photograph 76 - T71

	
Photograph 77 - T72	Photograph 78 - T73
	
Photograph 79 - T74	Photograph 80 - T75

	
Photograph 81 - T76	Photograph 82 - T77
	
Photograph 83 - T81	Photograph 84 - T82

	
Photograph 85 - T84	Photograph 86 - T85
	
Photograph 87 - T86	Photograph 88 - T88

	
Photograph 89 - T89	Photograph 90 - T90
	No photo available
Photograph 91 - T91	Photograph 92 - T92

Photograph 93 - T93

Photograph 94 - T94

Photograph 95 - T95

Photograph 96 - T96

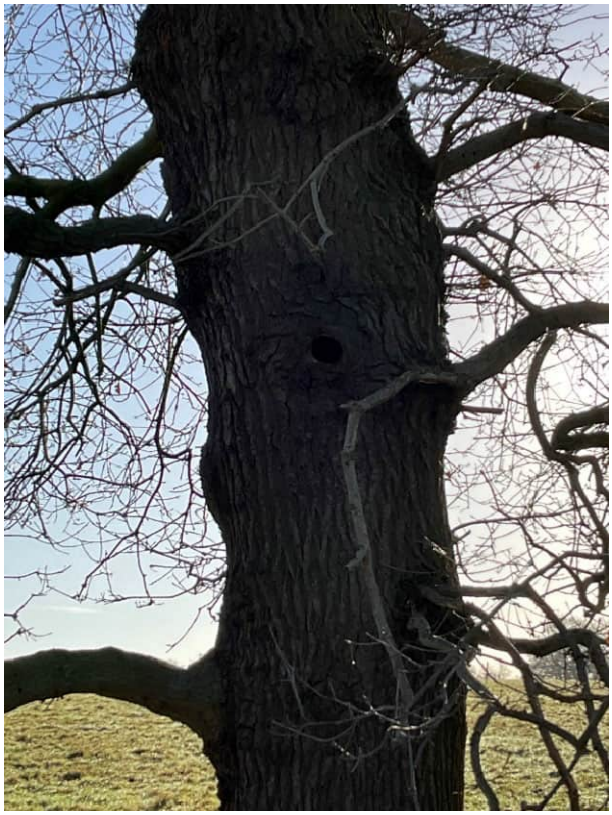
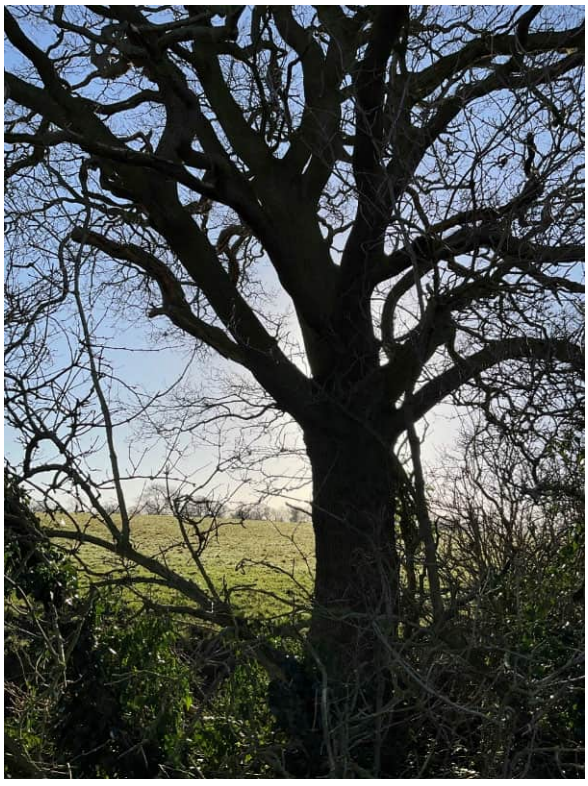
	
Photograph 97 - T97	Photograph 98 - T98
	
Photograph 99 - T99	Photograph 100 - T100

Photograph 101 - T101

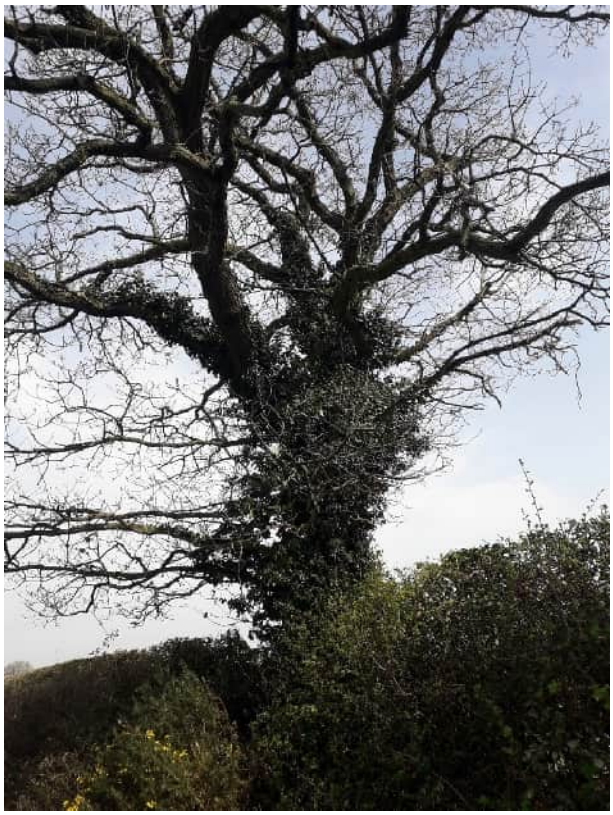
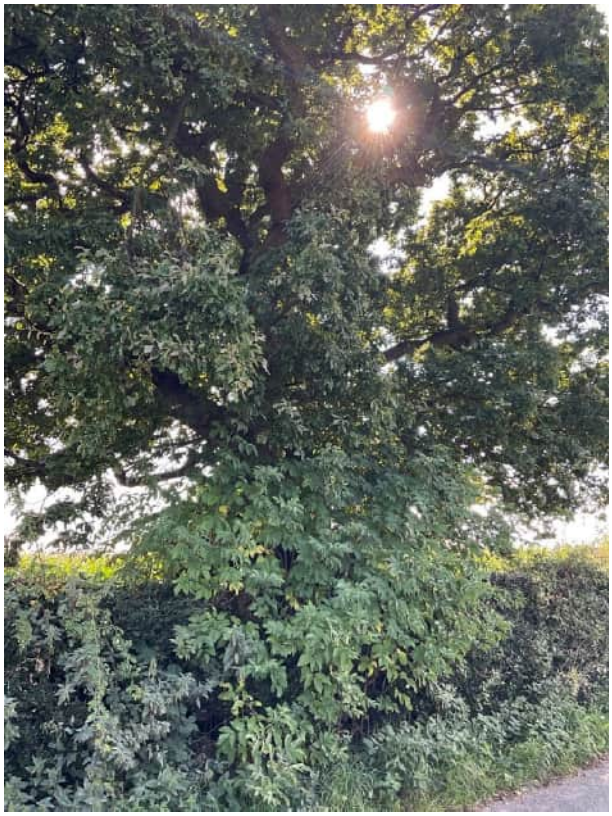
Photograph 102 - T103

Photograph 103 - T104

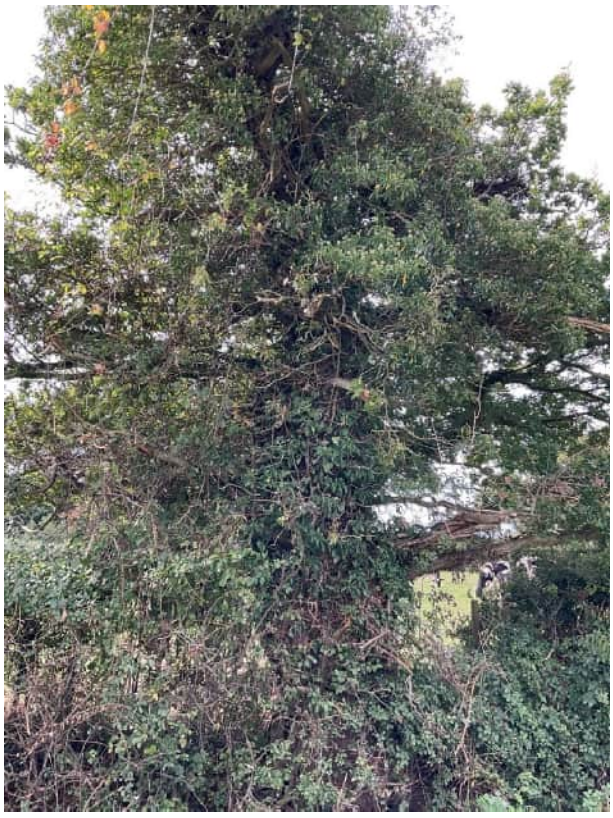
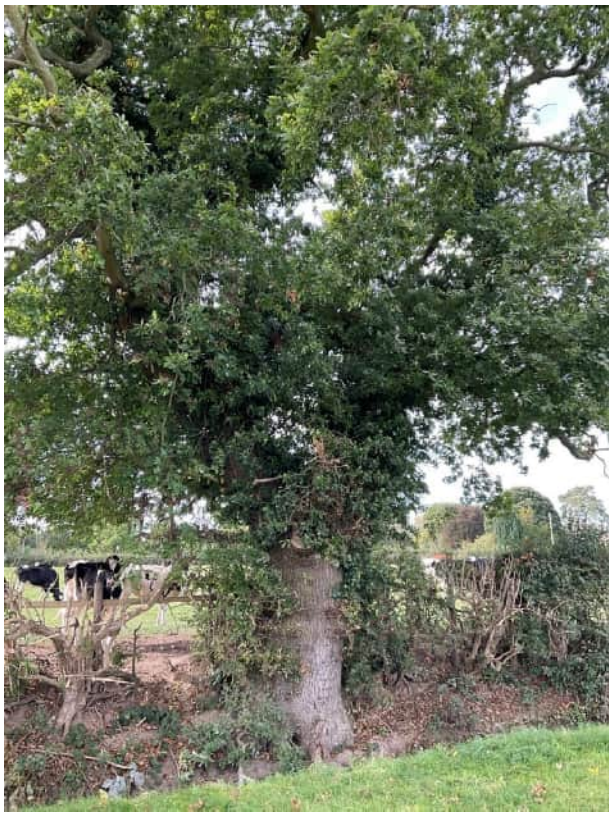
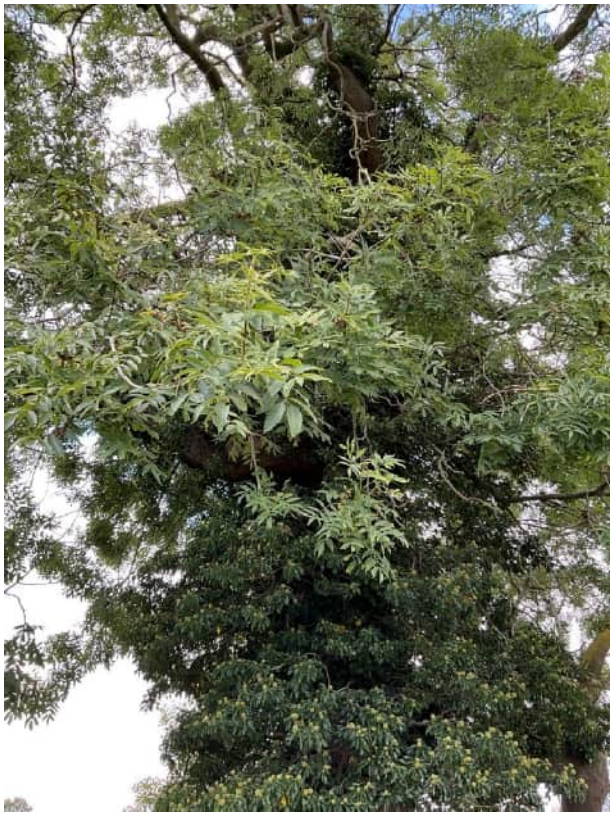
Photograph 104 - T105

	
Photograph 105 - T107	Photograph 106 - T109
	
Photograph 107 - T110	Photograph 108 - T111

	
Photograph 109 - T112	Photograph 110 - T115
	
Photograph 111 - T116	Photograph 112 - T117

	No photo available
Photograph 113 - T118	Photograph 114 - T119
	
Photograph 115 - T128	Photograph 116 - T129

	
Photograph 117 - T131	Photograph 118 - T132
	
Photograph 119 - T133	Photograph 120 - T134

	
Photograph 121 - T135	Photograph 122 - T136
	
Photograph 123 - T137	Photograph 124 - T138

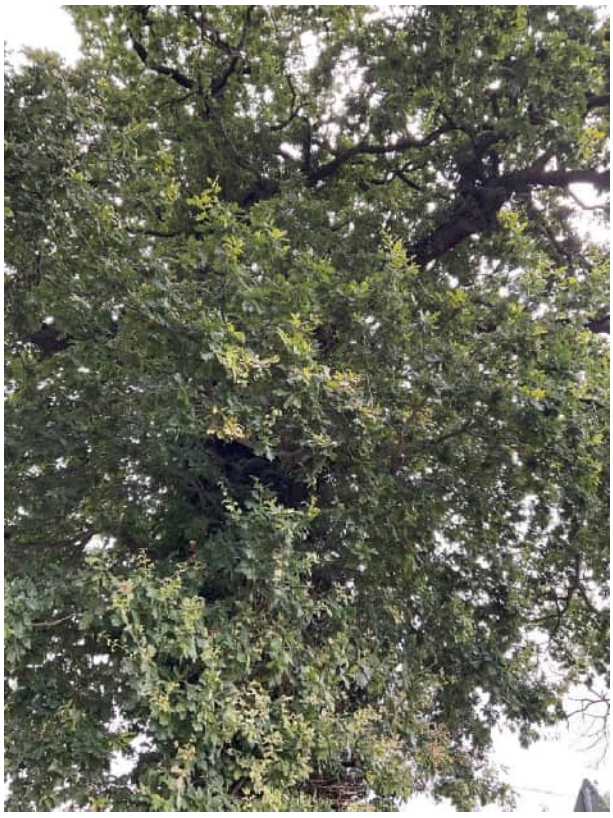
	No photo available
Photograph 125 - T139	Photograph 126 - T140
No photo available.	No photo available.
Photograph 127 - T141	Photograph 128 - T142
No photo available.	
Photograph 129 - T143	Photograph 130 - T144

Photograph 131 - T145

Photograph 132 - T146

Photograph 133 - T147

Photograph 134 - T148

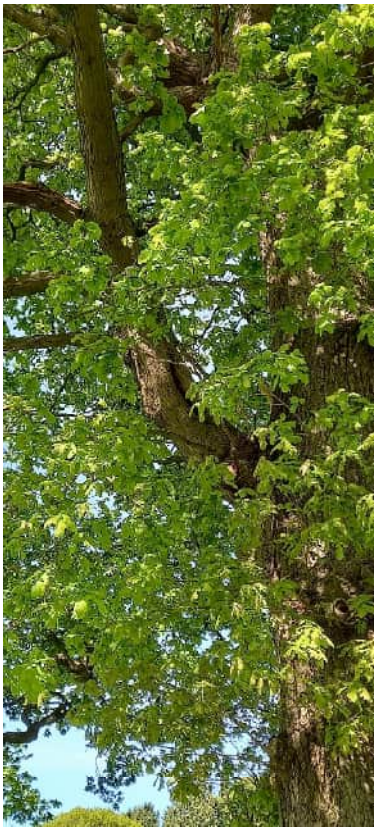
	
Photograph 135 - T149	Photograph 136 - T150
	
Photograph 137 - T151	Photograph 138 - T152

	
Photograph 139 - T153	Photograph 140 - T154
	
Photograph 141 - T155	Photograph 142 - T156

	
Photograph 143 - T157	Photograph 144 - T158
	
Photograph 145 - T159	Photograph 146 - T160

	
Photograph 147 - T161	Photograph 148 - T162
	
Photograph 149 - T163	Photograph 150 - T164

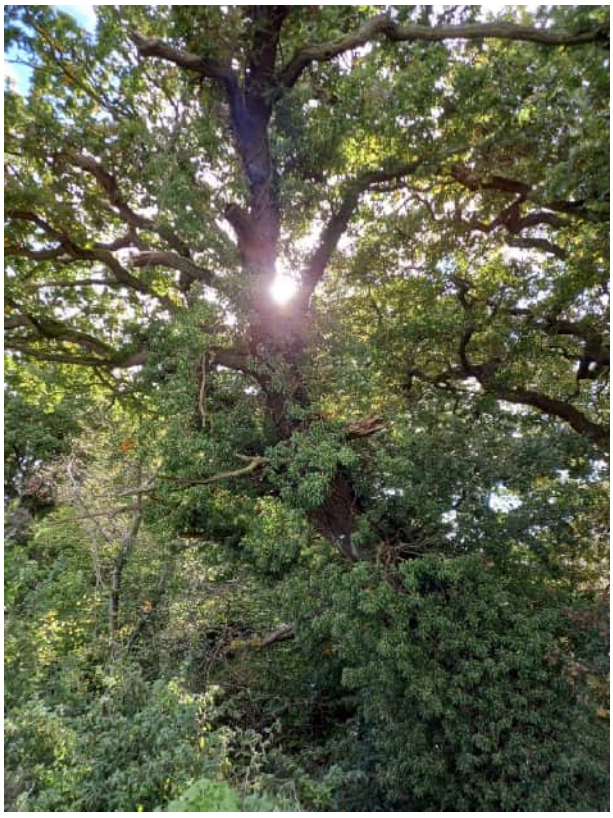
	
Photograph 151 - T165	Photograph 152 - T166
	
Photograph 153 - T167	Photograph 154 - T168

	
Photograph 155 - T169	Photograph 156 - T170
	
Photograph 157 - T171	Photograph 158 - T172

	
Photograph 159 - T173	Photograph 160 - T174
	
Photograph 161 - T175	Photograph 162 - T176

	
Photograph 163 - T177	Photograph 164 - T178
	
Photograph 165 - T179	Photograph 166 - T180

	
Photograph 167 - T181	Photograph 168 - T182
	
Photograph 169 - T183	Photograph 170 - T184

	
Photograph 171 - T185	Photograph 172 - T186
	
Photograph 173 - T187	Photograph 174 - T188

Photograph 175 - T189

Photograph 176 - T190

Photograph 177 - T191

Photograph 178 - T192

	
Photograph 179 - T193	Photograph 180 - T194
	
Photograph 181 - T195	Photograph 182 - T196

	
Photograph 183 - T197	Photograph 184 - T198
	
Photograph 185 - T199	Photograph 186 - T200

	
Photograph 187 - T201	Photograph 188 - T202
	

Photograph 189 - T203	Photograph 190- T204
	
Photograph 191 - T205	Photograph 192 - T206
	
Photograph 193 - T207	Photograph 194 - T209

	
Photograph 195 - T210	Photograph 196 - T211
	
Photograph 197 - T212	Photograph 198 - T213

	
Photograph 199 - T214	Photograph 200 - T215
	
Photograph 201 - T216	Photograph 202 - T217

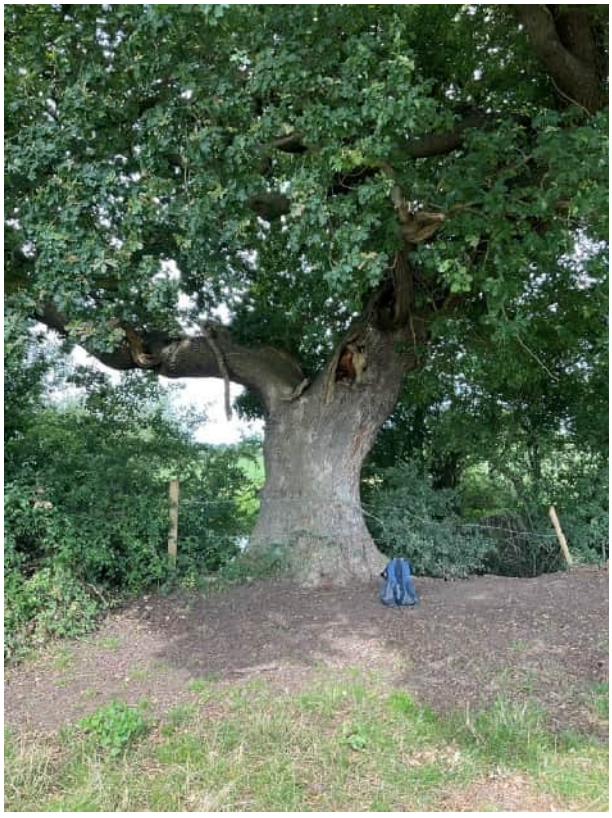
	
Photograph 203 - T218	Photograph 204 - T219
	
Photograph 205 - T220	Photograph 206 - T221

	
Photograph 207 - T222	Photograph 208 - T223
	
Photograph 209 - T225	Photograph 210 - T226

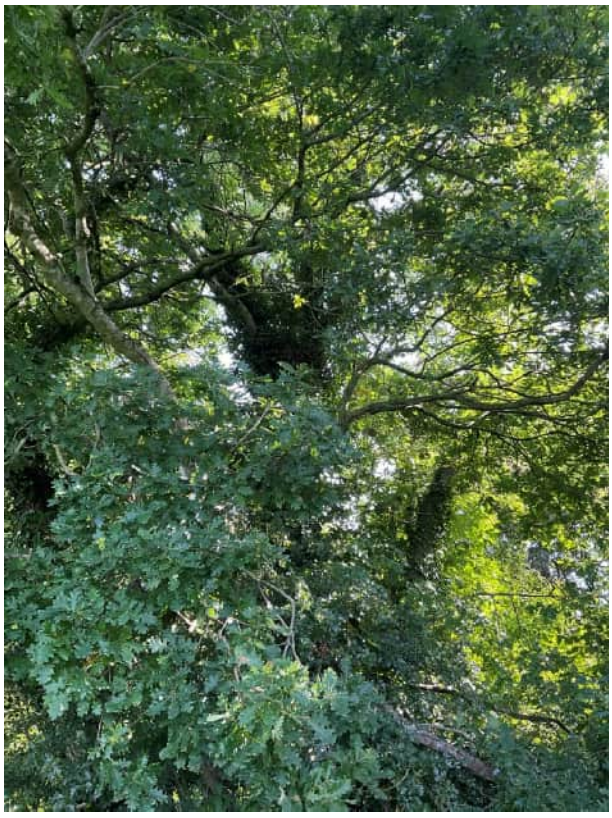
Photograph 211 - T227

Photograph 212 - T228

Photograph 213 - T229

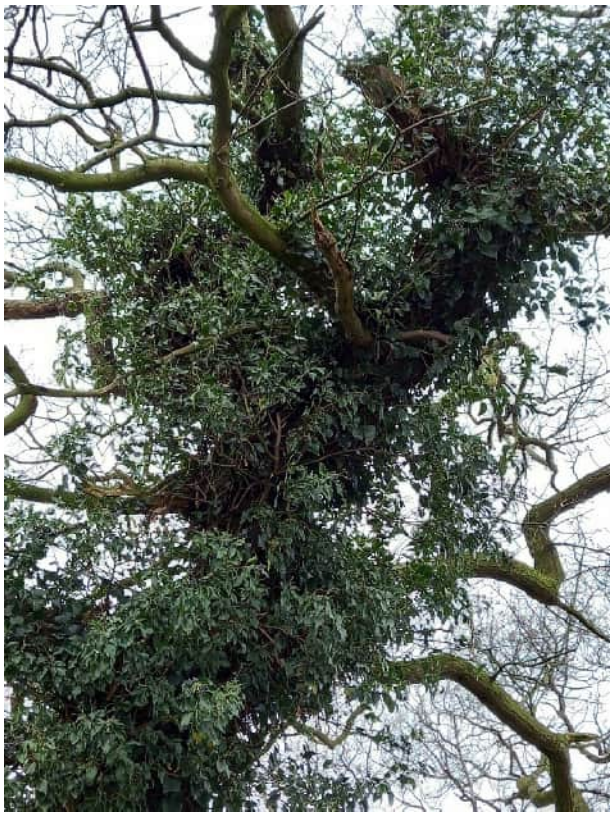


Photograph 214 - T230

	
Photograph 215 - T231	Photograph 216 - T232
	
Photograph 217 - T233	Photograph 218 - T234

	
Photograph 219 - T235	Photograph 220 - T236
	
Photograph 221 - T237	Photograph 222 - T238

	
Photograph 223 - T239	Photograph 224 - T240
	
Photograph 225 - T241	Photograph 226 - T242

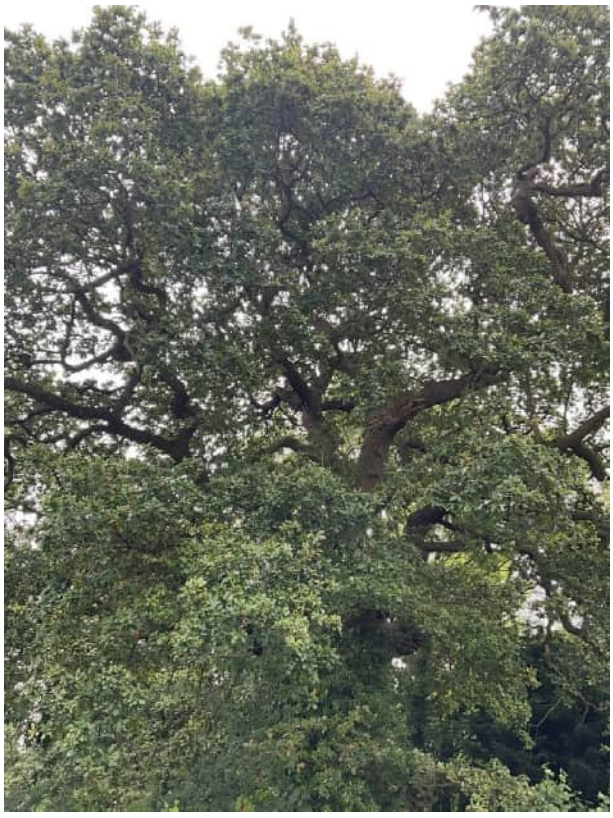
	
Photograph 227 - T245	Photograph 228 - T247
	
Photograph 229 - T248	Photograph 230 - T249

	
Photograph 231 - T250	Photograph 232 - T251
	
Photograph 233 - T252	Photograph 234 - T253

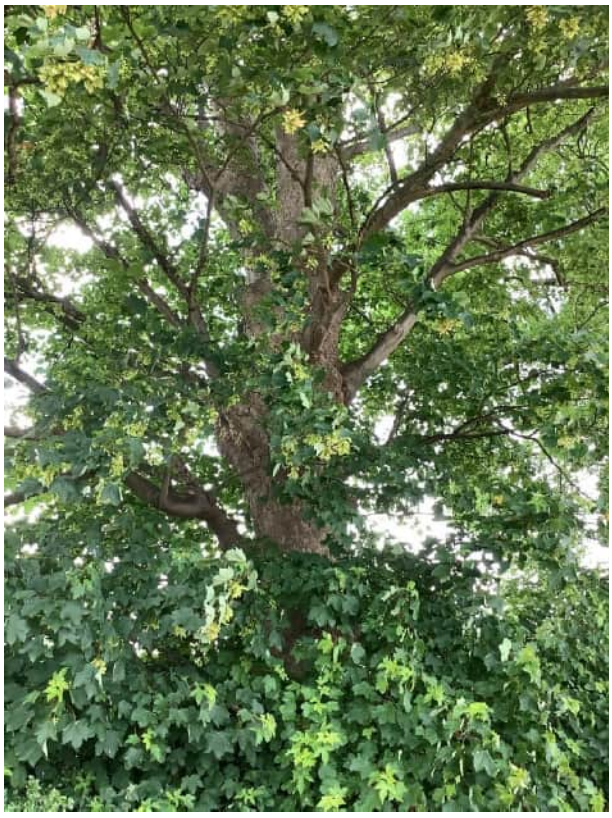
	
Photograph 235 - T254	Photograph 236 - T255
	
Photograph 237 - T257	Photograph 238 - T258

	
Photograph 239 - T261	Photograph 240 - T262
	
Photograph 241 - T265	Photograph 242 - T267

No photo available	
Photograph 243 - T269	Photograph 244- T271
	
Photograph 245 - T272	Photograph 246 - T273

	
Photograph 247 - T274	Photograph 248 - T275
	
Photograph 249 - T276	Photograph 250 - T277

	
Photograph 251 - T278	Photograph 252 - T279
	
Photograph 253 - T280	Photograph 254 - T281

	
Photograph 255 - T282	Photograph 256- T283
	
Photograph 257 - T284	Photograph 258 - T285

	
Photograph 259 - T286	Photograph 260 - T287
	
Photograph 261 - T288	Photograph 262 - T289

	
Photograph 263 - T290	Photograph 264 - T291
	
Photograph 265 - T292	Photograph 266 - T293

Photograph 267 - T294

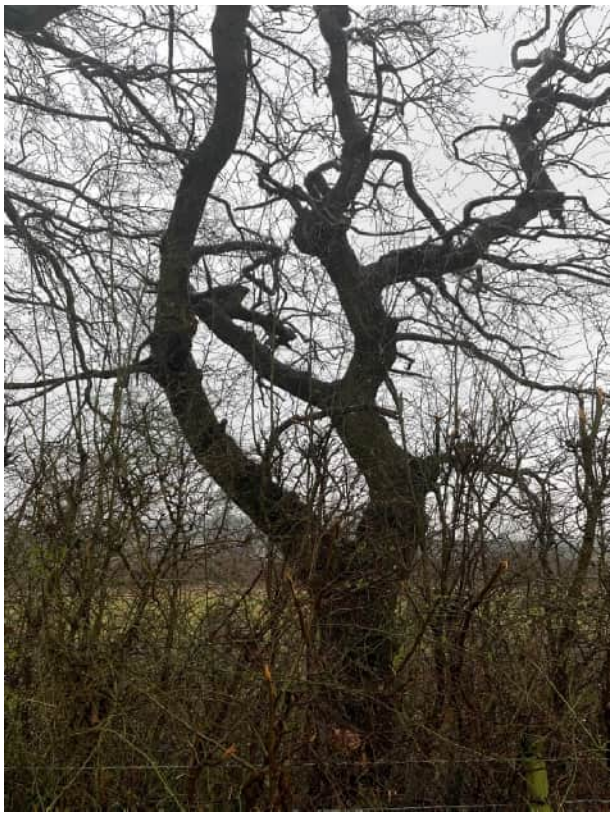
Photograph 268 - T295

Photograph 269 - T296

Photograph 270 - T297

	
Photograph 271 - T298	Photograph 272 - T300
	
Photograph 273 - T301	Photograph 274 - T302

	
Photograph 275 - T303	Photograph 276 - T304
	
Photograph 277 - T305	Photograph 278 - T306

	
Photograph 279 - T307	Photograph 280 - T308
	
Photograph 281 - T309	Photograph 282 - T310

	
Photograph 283 - T311	Photograph 284 - T315
	
Photograph 285 - T316	Photograph 286 - T317

	
Photograph 287 - T318	Photograph 288 - T319
	
Photograph 289 - T320	Photograph 290 - T321

	
Photograph 291 - T322	Photograph 292 - T324
	No photo available.
Photograph 293 - T325	Photograph 294 - T326

	
Photograph 295 - T327	Photograph 296 - T328
	
Photograph 297 - T329	Photograph 298 - T330

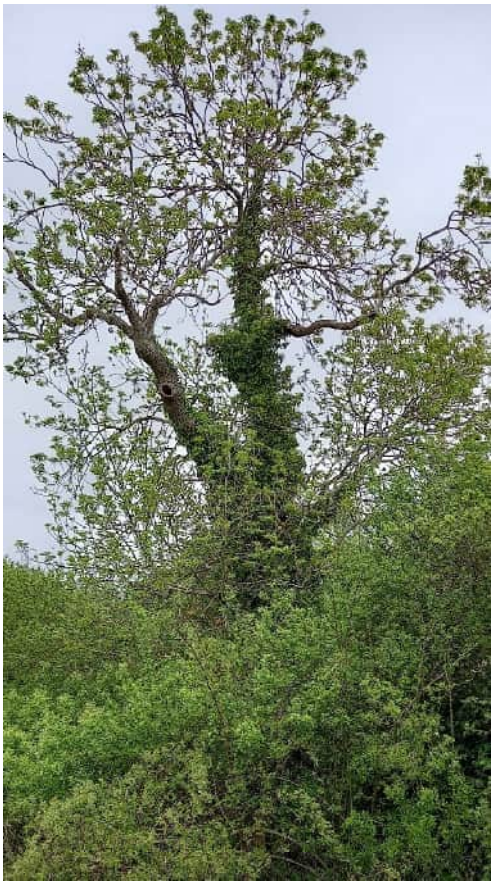
Photograph 299 - T331

Photograph 300 - T332

Photograph 301 - T334

Photograph 302 - T335

	No photo available.
Photograph 305 - T336	Photograph 304 - T337
	
Photograph 307 - T338	Photograph 308 - T339

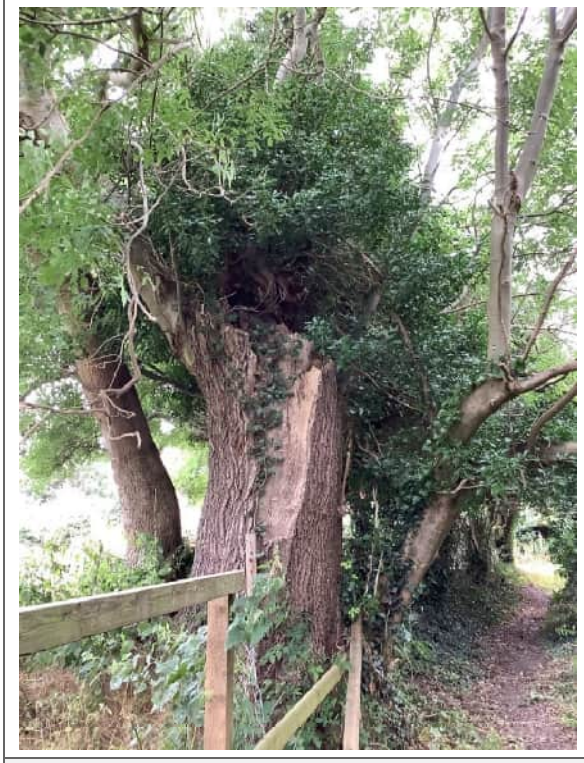
	
Photograph 309 - T340	Photograph 310 - T341
	
Photograph 311 - T343	Photograph 312 - T344

	
Photograph 313 - T345	Photograph 314 - T346
	
Photograph 315 - T349	Photograph 316 - T350

	
Photograph 317 - T351	Photograph 318 - T352
	
Photograph 319 - T355	Photograph 320 - T356

	
Photograph 321 - T357	Photograph 322 - T358
	

Photograph 323 - T359	Photograph 324 - T360
	
Photograph 325 - T361	Photograph 326- T362
	
Photograph 327 - T363	Photograph 328 - T364

	
Photograph 329 - T365	Photograph 330 - T366
	
Photograph 331 - T367	Photograph 332 - T368

	
Photograph 333 - T369	Photograph 334 - T370
	
Photograph 335 - T371	Photograph 336 - T373

	
Photograph 337 - T374	Photograph 338 - T375
	
Photograph 339 - T376	Photograph 340 - T377

	
Photograph 341- T378	Photograph 342 - T379
	
Photograph 343 - T380	Photograph 344 - T381

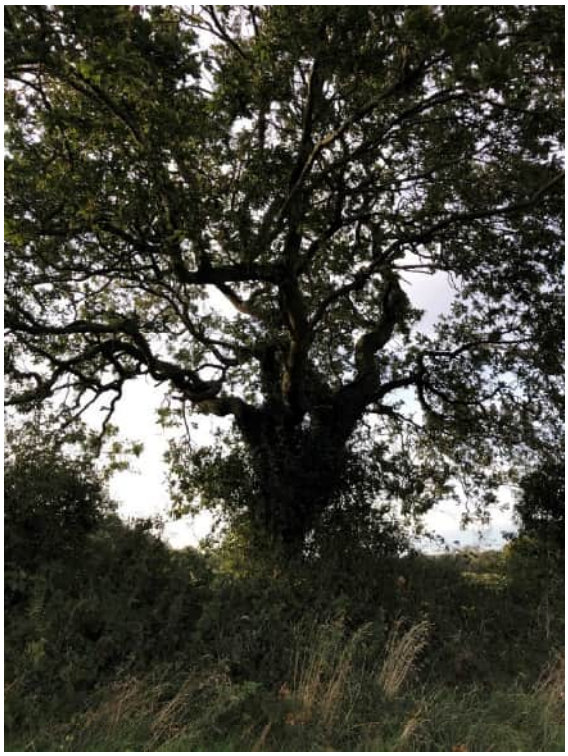
	
Photograph 345 - T382	Photograph 346 - T383
	
Photograph 347 - T384	Photograph 348 - T385

	
Photograph 349 - T386	Photograph 350 - T387
	
Photograph 351 - T388	Photograph 352 - T389

Photograph 353- T390

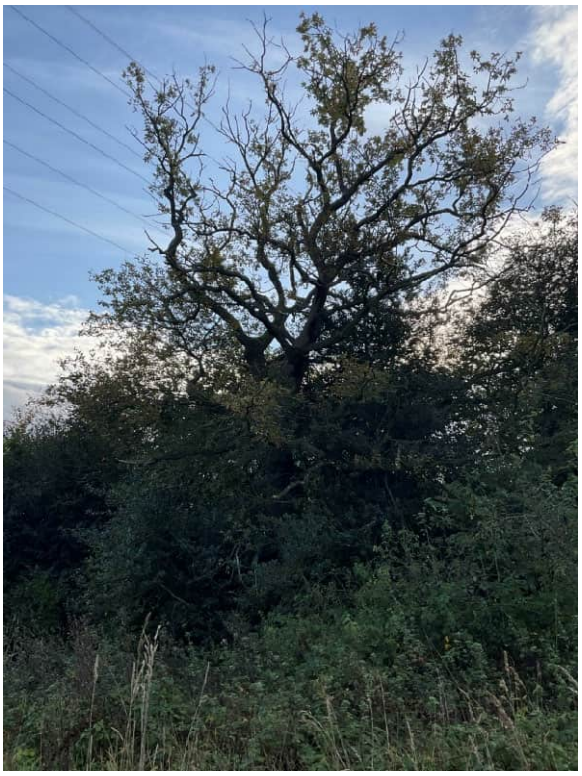
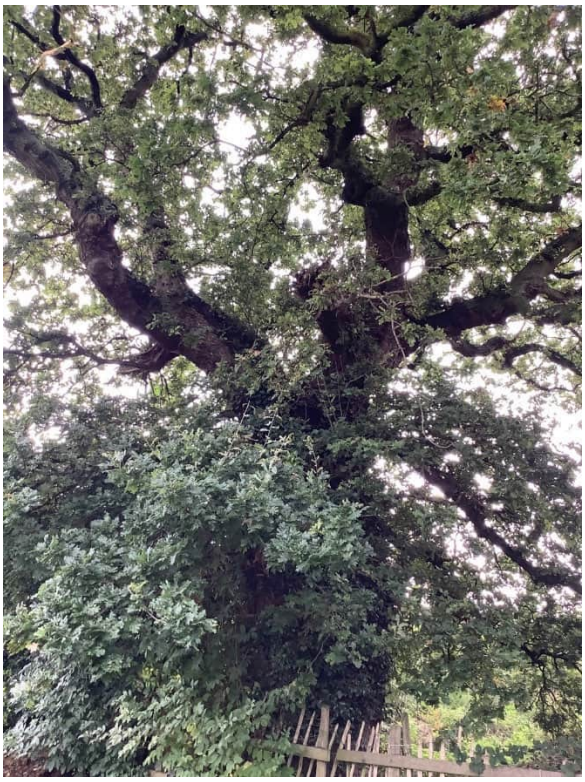
Photograph 354 - T391

Photograph 355 - T392



Photograph 356 - T393

	
Photograph 357 - T398	Photograph 358 - T399
	
Photograph 359- T400	Photograph 360 - T401

	
Photograph 361 - T402	Photograph 362 - T403
	
Photograph 363 - T404	Photograph 364 - T406

	
Photograph 364 - T407	Photograph 366 - T408
	
Photograph 367 - T409	Photograph 368 - T410

	
Photograph 369 - T411	Photograph 370 - T412
	
Photograph 371 - T414	Photograph 372 - T415

	
Photograph 373 - T416	Photograph 374 - T417
	
Photograph 375 - T418	Photograph 376 - T419

	
Photograph 377 - T420	Photograph 378 - T421
	
Photograph 379 - T422	Photograph 380- T423

	
Photograph 381 - T424	Photograph 382 - T425
	
Photograph 383 - T426	Photograph 384 - T427

Photograph 385 - T428

Photograph 386 - T429

Photograph 387 - T430

Photograph 388 - T431

	
Photograph 389 - T432	Photographc 390 - T433
No photo available.	
Photograph 391 - T434	Photograph 392 - T435

	
Photograph 393 - T436	Photograph 394 - T438
	
Photograph 395 - T440	Photograph 396 - T441

	
Photograph 397 - T443	Photograph 398 - T444
	
Photograph 399 - T445	Photograph 400 - T446

	
Photograph 402 - T447	Photograph 401 - T448
	
Photograph 403 - T449	Photograph 404 - T450

	
Photograph 405 - T451	Photograph 406 - T452
	
Photograph 407 - T453	Photograph 408 - T454

	
Photograph 409 - T455	Photograph 410 - T456
	
Photograph 411 - T457	Photograph 412 - T458

	
Photograph 413 - T459	Photograph 414 - T460
	
Photograph 415 - T461	Photograph 416 - T462

Photograph 417 - T464

Photograph 418 - T475

Photograph 419 - T480

Photograph 420 – T491

Photograph 421 – T492

Photograph 422 – T493

Photograph 423 – T494

Photograph 424 – T495

	
Photograph 425 – T496	Photograph 426 – T497
	
Photograph 427 – T498	Photograph 428 – T499

	
Photograph 429 – T500	