

ENVIRONMENTAL STATEMENT - (VOLUME III)

APPENDIX 9.3 BAT ACTIVITY SURVEY REPORT (CLEAN)

HyNet Carbon Dioxide Pipeline DCO

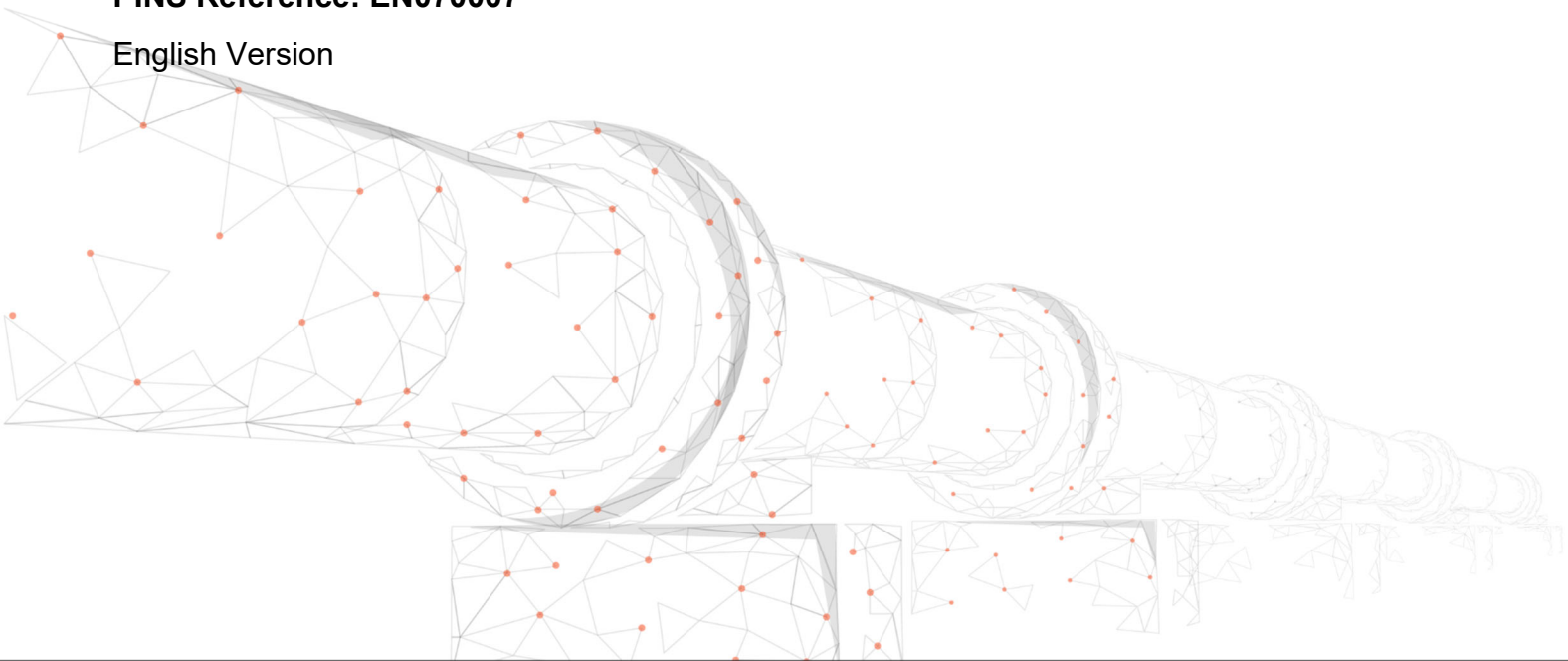
Planning Act 2008

Document Reference Number D.6.3.9.3

Applicant: Liverpool Bay CCS Limited

PINS Reference: EN070007

English Version



REVISION: B

DATE: March 2023

DOCUMENT OWNER: WSP UK Ltd

PUBLIC

QUALITY CONTROL

Document Reference		D.6.3.9.3		
Document Owner		WSP		
Revision	Date	Comments	Author	Approver
A	September 2022	Submitted with DCO application	JO'K	DC
B	March 2023	Additional survey information added	JO'K	DC

TABLE OF CONTENTS

1. INTRODUCTION.....	1
1.1. Project Background.....	1
1.2. Ecological background	2
1.3. Brief Scope and Objectives	2
1.4. Relevant Legislation and Policy	3
2. BASELINE METHODOLOGY.....	6
2.1. Overview	6
2.2. Desk study	6
2.3. Preliminary Bat Roost Assessment Surveys	6
2.4. Aerial Tree Climb Inspection Surveys	8
2.5. Dusk Emergence and Dawn Re-entry Surveys	8
2.6. Dates of Survey and Personnel.....	10
2.7. Notes and Limitations.....	10
3. RESULTS	13
3.1. Desk Study.....	13
3.2. Preliminary Roost Assessment Surveys	14
3.3. Aerial Tree Climb Inspection Surveys	15
3.4. Dusk Emergence and Dawn Re-entry Surveys	15
4. REFERENCES.....	17

TABLES

Table 1 - Roost Suitability Categorisation	7
Table 2 - Survey Effort for Bat Surveys at Structures and Trees	9
Table 3 - Confirmed/Potential Bat Roosts Within 2km of the Newbuild Infrastructure Boundary from the Last Ten Years.....	14
Table 4 - Desk Study Results – Records of Bats within 2km of the Newbuild Infrastructure Boundary.....	20
Table 5 - Structures Survey Results	26
Table 6 - Tree Survey Results	30
Table 7 - Confirmed Bat Roosts.....	57
Table 8 - Structure Dusk Emergence and Dawn Re-entry Survey Weather Details.....	60
Table 9 - Tree Dusk Emergence and Dawn Re-entry Survey Weather Details.....	61

ANNEXURES

ANNEX A

FIGURES

ANNEX B

DESK STUDY RESULT

ANNEX C

STRUCTURES SURVEY RESULTS

ANNEX D

TREE SURVEY RESULTS

ANNEX E

CONFIRMED BAT ROOSTS

ANNEX F

WEATHER DETAILS FOR SURVEYS

ANNEX G

BATS STRUCTURE AND TREES PHOTO SUPPLEMENT

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** of the **Environmental Statement (ES) (Volume II)**.
- 1.1.2. This **Revision B** of **Appendix 9.3 – Bat Activity Survey Report** replaces and supersedes **Revision A** of **Appendix 9.3 (APP-098 to APP-101)** to take account of updated survey data that was not presented within the **Revision A**.
- 1.1.3. The Applicant intends to build and operate a new underground carbon dioxide (CO₂) 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).
- 1.1.4. 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 CO₂ 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 CO₂ entering the atmosphere by capturing it, compressing it and transporting it for safe, permanent storage.
- 1.1.5. 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 CO₂ capture and storage elements of the Project do not form part of the DCO Proposed Development and will be delivered under separate consenting processes.
- 1.1.6. 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 CO₂;
 - **Stanlow AGI to Flint AGI Pipeline** – a section of new underground onshore pipeline (36" in diameter) to transport CO₂;
 - **Flint AGI to Flint Connection Pipeline** – a section of new underground onshore pipeline (24" in diameter) to transport CO₂;

- **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 CO₂. 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.

1.1.7. Further details of each element of the DCO Proposed Development are set out in **Chapter 3 – Description of the DCO Proposed Development (Volume II). (APP-055).**

1.2. ECOLOGICAL BACKGROUND

1.2.1. Extended Phase 1 habitat surveys were undertaken from 2020, and continuing 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 **Appendix 9.1 - Habitats and Designated Sites Survey Report (APP-091 – APP-093).**

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 these surveys are presented within this report. The impact assessment and recommendations for mitigation and compensation are presented within **Chapter 9: Biodiversity (Revision B) (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 pipistrelles *Pipistrellus pygmaeus* are also listed as a 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) (2019) (**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 (Revision B)**.
- 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 30km of the Newbuild Infrastructure Boundary and to obtain information held by relevant third parties from the last ten years within 2km 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**.

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 July 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 fascias. 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** 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** 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.
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).

Category	Description
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 climber inspection surveys by a Natural England (NE) and / or Natural Resources Wales (NRW) bat licensed ecologist.
- 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 survey.

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**.
- 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. 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		

2.5.9. 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.

2.5.10. 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. Separate infra-red illuminators were set up to improve the view of the camera and illuminate features. 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

2.5.11. 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.

2.5.12. 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** 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**, enabling a full

external assessment. As such, the lack of internal inspection is not expected to have impacted the results or conclusions presented within this report.

- 2.7.3. Surveys are confined to land where access has been permitted. Access was limited at certain features where adjoining landowners have not agreed access concurrently which may reduce views of the target feature. Where this is the case, a conservative assumption was made based on available data 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 coverage 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.
- 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 is not thought to have affected the results of the surveys.
- 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 on the proformas. 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** 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 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 will be assessed as part of the DCO Proposed Development (as detailed in **Annex C, Table 5** and **Annex D, Table 6**). This approach has been taken within **Chapter 9: Biodiversity (Revision B) (Volume II)**.

- 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, the subsequent survey visits did not record any roosting activity. As such, a precautionary approach is taken and T325 is assumed to support a brown long-eared day roost.

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 30km of the Newbuild Infrastructure Boundary. In addition, no SSSIs designated for bats were identified within 2km of the Newbuild Infrastructure Boundary.
- 3.1.3. The desk study from rECOrd returned 131 records of bats within 2km of the Newbuild Infrastructure Boundary from the last ten years. Seven of these records pertained to confirmed bat roosts, the closest being 0.59km south-east of the Newbuild Infrastructure Boundary and pertaining to two soprano pipistrelles. The closest record overall related to 77 common pipistrelles and eight soprano pipistrelles, 0.05km west of the Newbuild Infrastructure Boundary in 2017. The most recent record was of a common pipistrelle 0.69km to the south in 2020.
- 3.1.4. The desk study from Cofnod returned 32 records of bats within 2km of the Newbuild Infrastructure Boundary from the last ten years. Eight of these records pertained to confirmed bat roosts, the closest being 0.34km west of the Newbuild Infrastructure Boundary and pertaining to a day roost of a single lesser horseshoe bat. The closest record related to 11 common pipistrelles 0.01km to the south of the Newbuild Infrastructure Boundary in 2012. The most recent record was of a noctule 1.69km to the west 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, there were no confirmed or potential bat roosts within the Newbuild Infrastructure Boundary. There were 15 confirmed or potential bat roosts recorded within 2km 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 - Confirmed/Potential Bat Roosts Within 2km of the Newbuild Infrastructure Boundary from the Last Ten Years

Species	Date of Record	Estimated roost size	Distance and Orientation from Site
Lesser Horseshoe bat	06/06/2016	1 bat (Day roost)	0.34km south-west
Common pipistrelle	01/08/2019	2 bats	0.45km east
Soprano pipistrelle	01/08/2019	1 bat	0.45km east
Lesser horseshoe bat	01/08/2019	1 bat	0.45km east
Brown long-eared bat	01/05/2012	2 bats	0.49km north-west
Common pipistrelle	01/05/2012	4 bats	0.49km north-west
Soprano pipistrelle	13/08/2019	2 bats	0.59km south-east
Pipistrelle sp.	11/03/2020	2 bats	0.69km south
Pipistrelle sp.	12/03/2020	2 bats	0.69km south
Soprano pipistrelle	02/07/2019	1 bat	0.74km south
Soprano pipistrelle	25/07/2019	1 bat	0.74km south
Brown long-eared bat	11/03/2020	1 bat	0.79km south
Brown long-eared bat	25/09/2012	1 bat	0.8km south
Brown long-eared bat	07/2012	2 bats	0.86km north
Pipistrelle sp.	18/06/2012	Unknown – only droppings present	1.44km south-west

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** and presented in **Figure 9.3.1**. Photographs are shown in **Annex G; Table 11**.

Trees

- 3.2.3. Following ground level tree inspection surveys, 417 trees were assessed as having suitability to support roosting bats. This comprises:

- 196 trees with low suitability to support roosting bats;
- 188 trees with moderate suitability to support roosting bats;
- 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**. Photographs are shown in **Annex G; Table 10**.

3.3. AERIAL TREE CLIMB INSPECTION SURVEYS

- 3.3.1. A total of 86 trees were then 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** 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** and presented in **Figure 9.3.3**

STRUCTURES

3.4.3. Following the PBRA surveys of structures, seven structures have been subjected to dusk emergence and dawn re-entry surveys. The surveys identified bat roosts in three structures within the Newbuild Infrastructure Boundary. B97 was being 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** 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 have been 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 being 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 being utilised by multiple noctules as a maternity roost and a single soprano pipistrelle as a day roost.

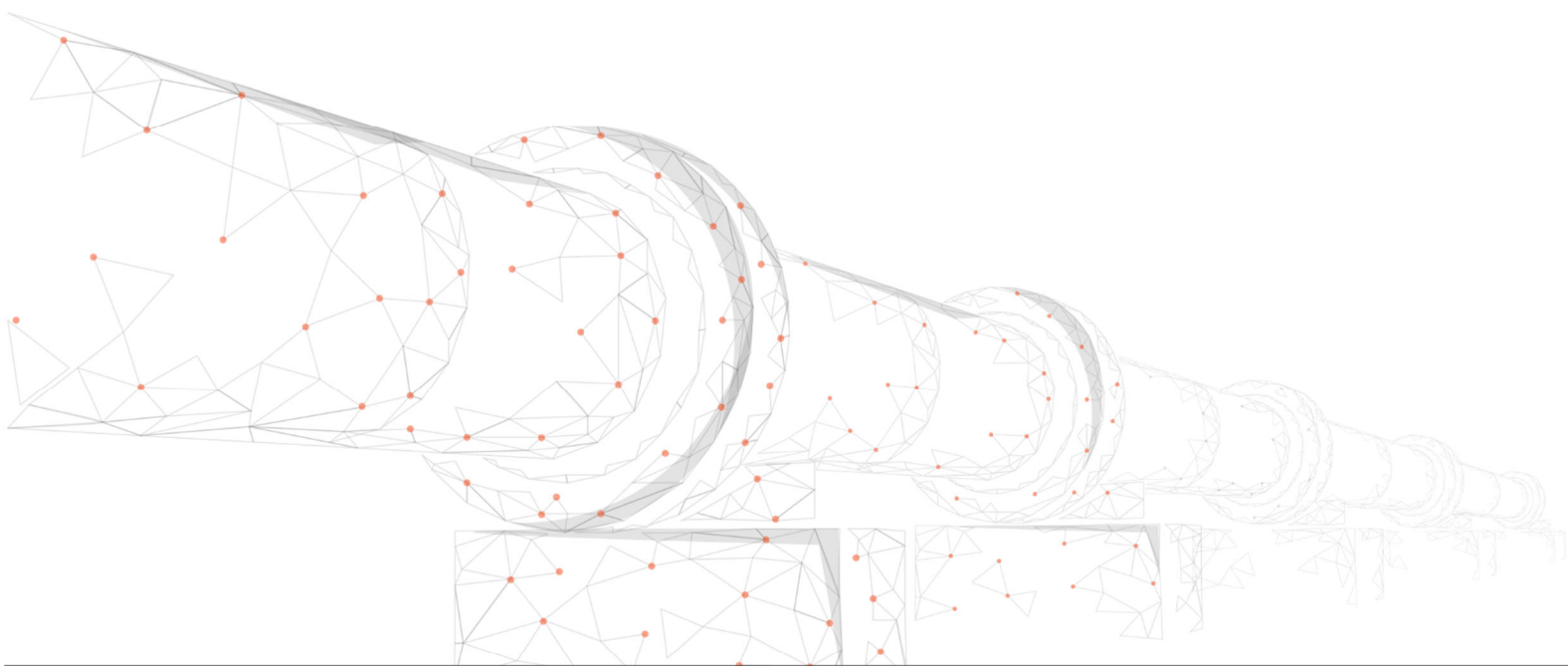
3.4.5. The remaining three recorded roosts, T325, T326 and T327, were believed to be utilised by multiple brown long-eared bats due to potential emergences of several bats recorded during the first survey of T325 (10/08/2021). However, the subsequent two survey visits in June and July 2022 did not record 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** and presented in **Figure 9.3.3**. Those trees precautionarily assessed as a roost due to incomplete survey effort are detailed in **Annex D, Table 6**.

- **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









1:900,000

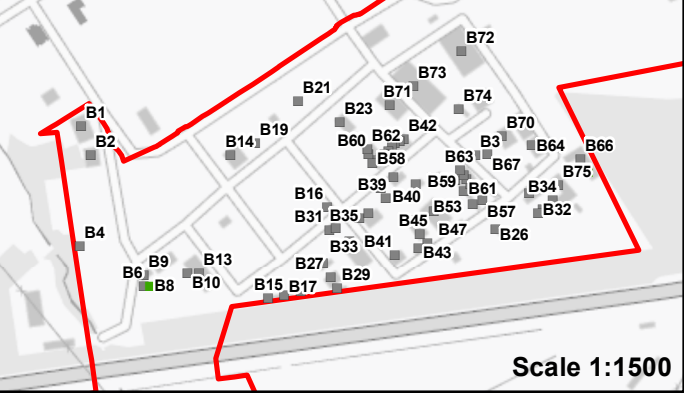
Key:

 Newbuild Infrastructure Boundary

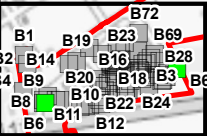
Suitability

-  Confirmed Roost
-  Precautionary Confirmed Roost
-  Low
-  Negligible

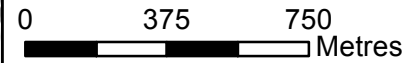
Inset 1



Scale 1:1500



SCALE:



Contains OS data © Crown Copyright and database right 2022

HyNet North West

PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

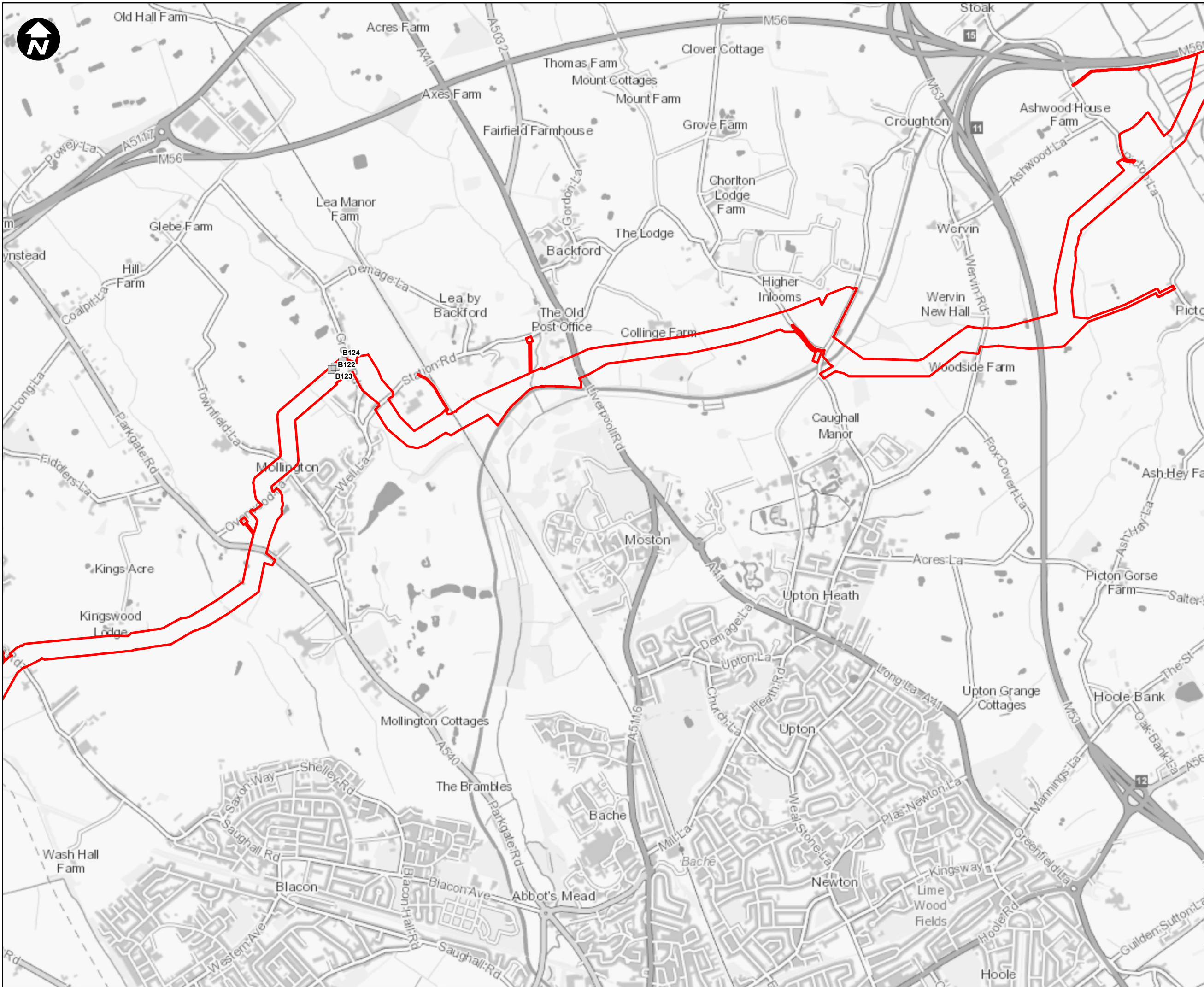
DRAWING TITLE
Figure 9.3.1 - Structures with Suitability to Support Bat Roosts Sheet 1 of 6

DRAWING STATUS
FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	NC	DC	MT

SCALE @ A3 SIZE	DATE	REVISION
1:20,000	16/01/2023	B

DRAWING NUMBER
D.6.3.9.3 Figure 9.3.1-Sheet 1



1:900,000

Key:

Newbuild Infrastructure Boundary

Suitability

Negligible

SCALE:

0 375 750 Metres

Contains OS data © Crown Copyright and database right 2022

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

DRAWING STATUS

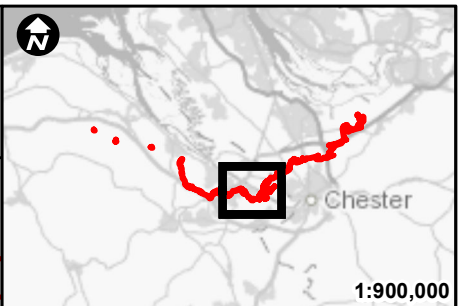
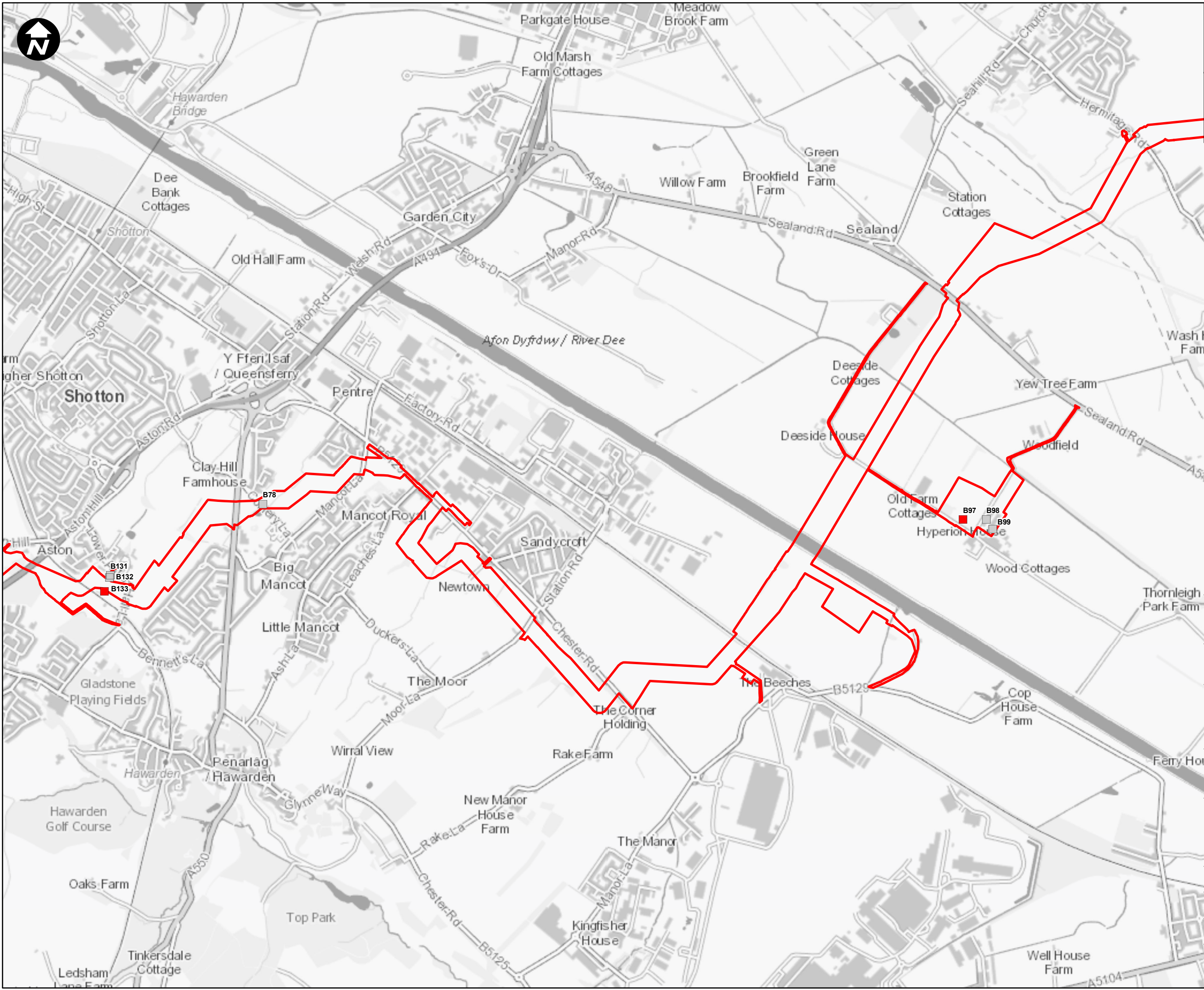
FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	NC	DC	MT

SCALE @ A3 SIZE	DATE	REVISION
1:20,000	16/01/2023	B

DRAWING NUMBER

D.6.3.9.3 Figure 9.3.1-Sheet 2



Key:

Newbuild Infrastructure Boundary

Suitability

Confirmed Roost

Negligible



Contains OS data © Crown Copyright and database right 2022

HyNet North West

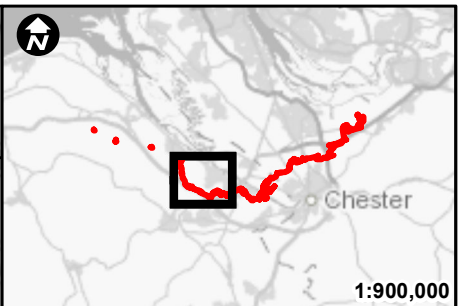
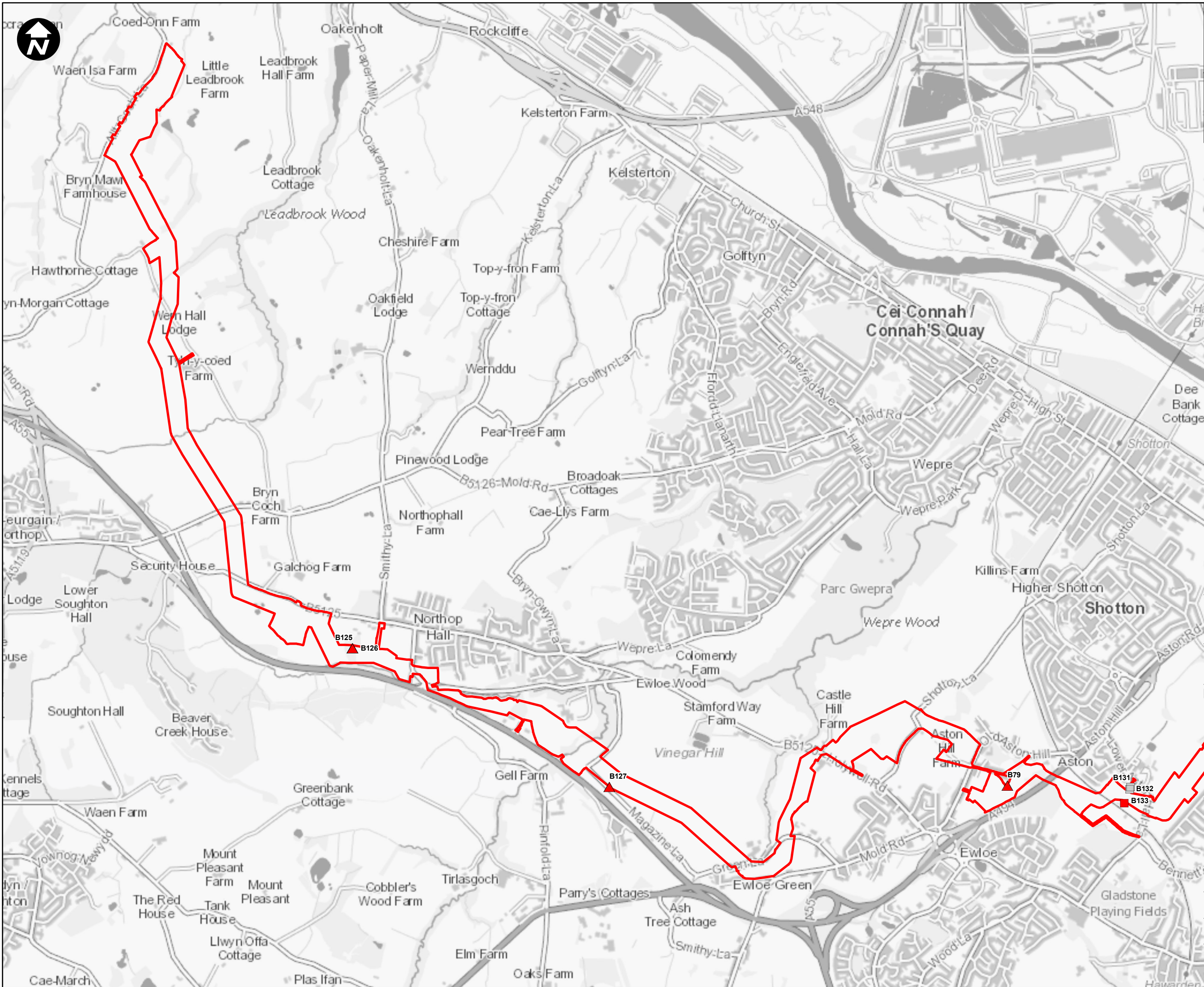
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

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

DRAWING STATUS
FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	NC	DC	MT
SCALE @ A3 SIZE 1:20,000		DATE 16/01/2023	REVISION B

DRAWING NUMBER
D.6.3.9.3 Figure 9.3.1-Sheet 3

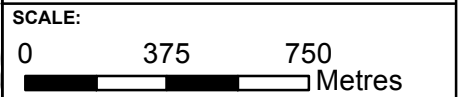


Key:

Newbuild Infrastructure Boundary

Suitability

- Confirmed Roost
- ▲ Precautionary Confirmed Roost
- Negligible



Contains OS data © Crown Copyright and database right 2022

HyNet North West

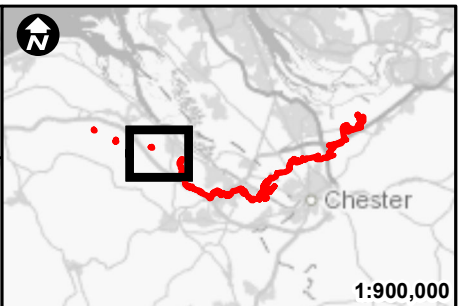
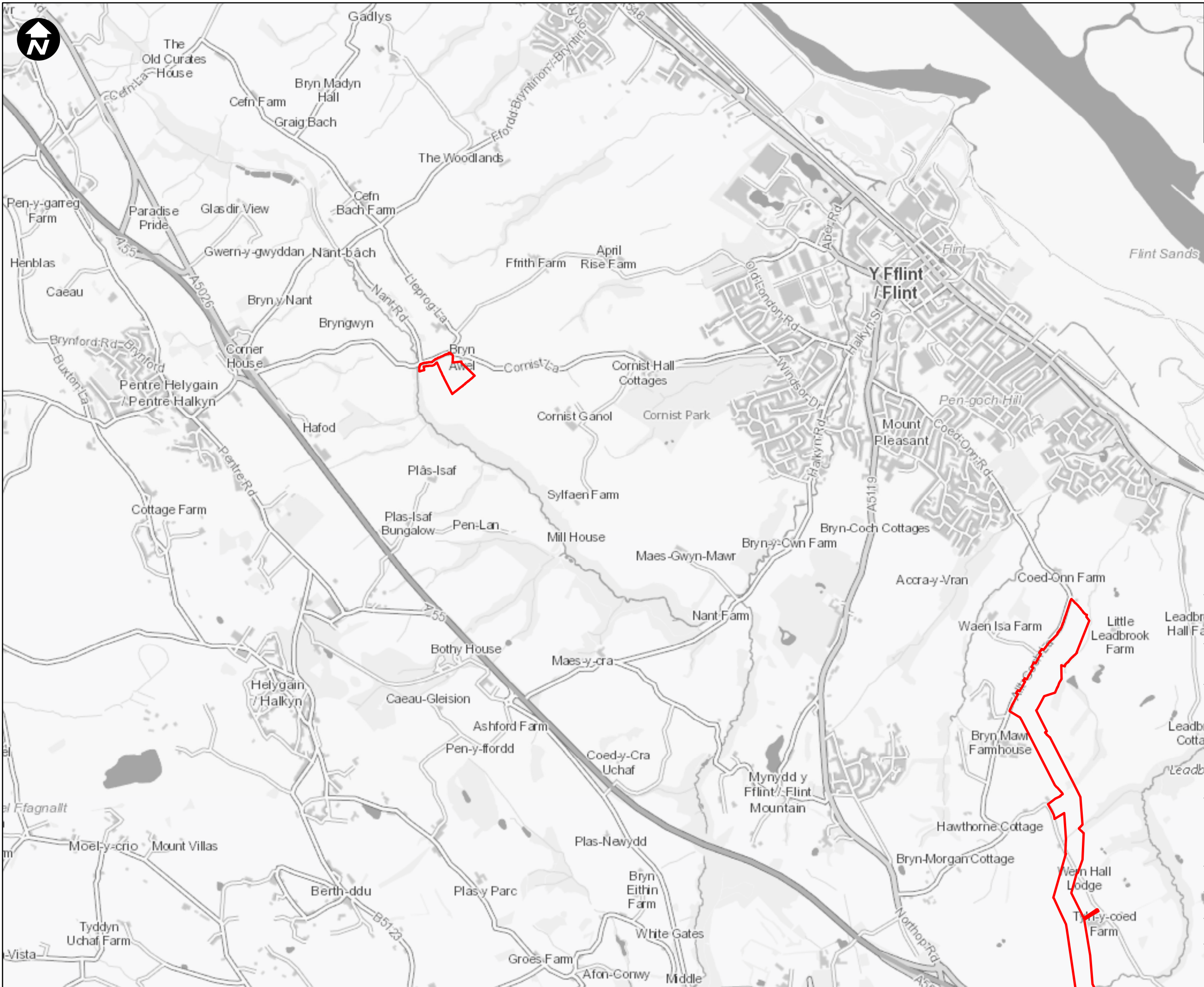
PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

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

DRAWING STATUS			
FOR DCO SUBMISSION			
DRAWN	CHECKED	APPROVED	AUTHORISED
DM	NC	DC	MT
SCALE @ A3 SIZE		DATE	REVISION
1:20,000		16/01/2023	B
DRAWING NUMBER			
D.6.3.9.3 Figure 9.3.1-Sheet 4			



Key:

Newbuild Infrastructure Boundary

SCALE:

0 375 750 Metres

Contains OS data © Crown Copyright and database right 2022

HyNet North West

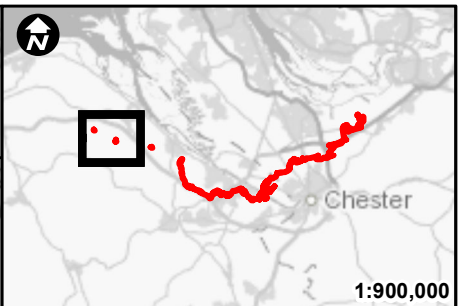
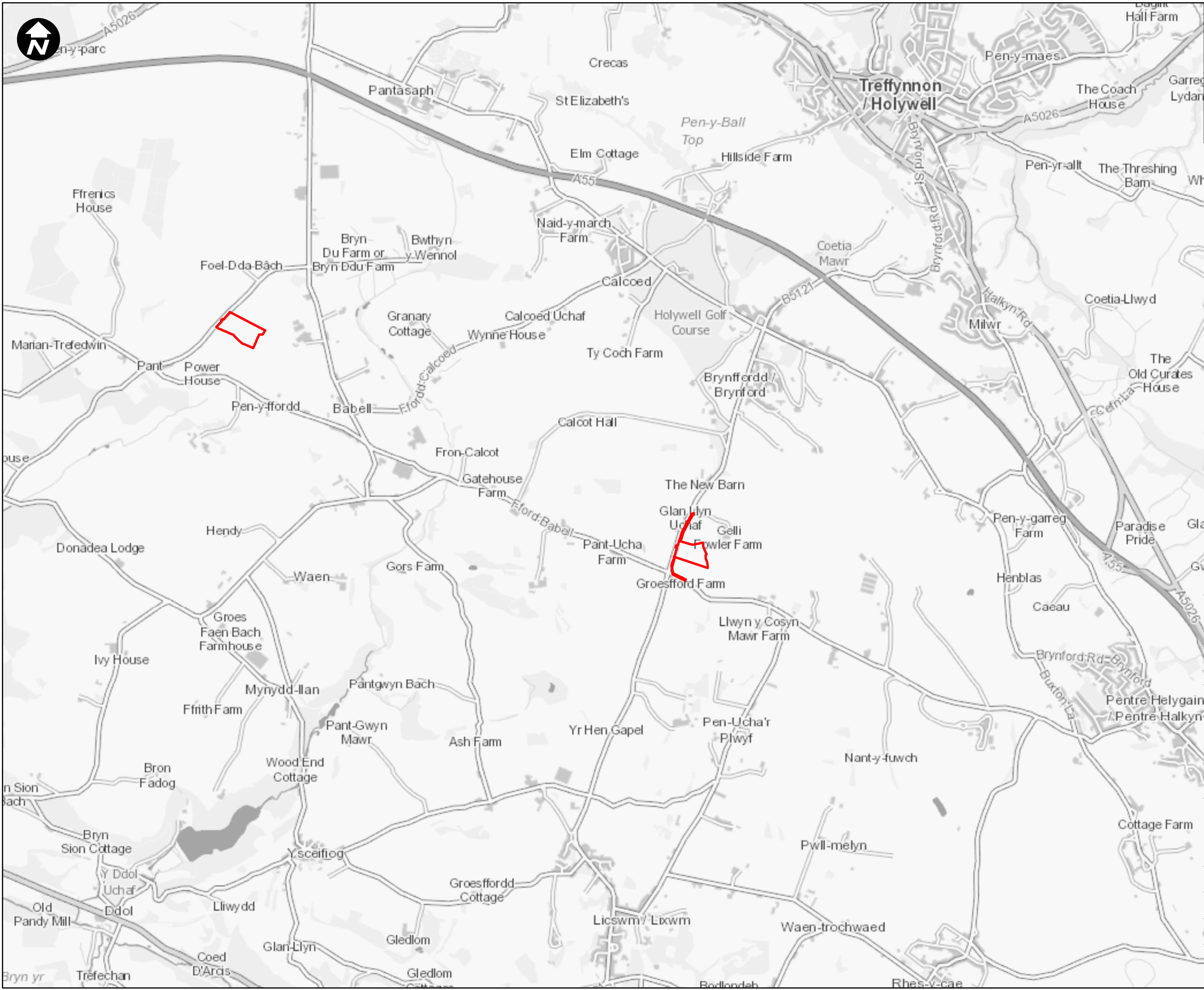
PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO


DRAWING TITLE

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

DRAWING STATUS			
FOR DCO SUBMISSION			
DRAWN	CHECKED	APPROVED	AUTHORISED
DM	NC	DC	MT
SCALE @ A3 SIZE		DATE	REVISION
1:20,000		16/01/2023	B
DRAWING NUMBER			
D.6.3.9.3 Figure 9.3.1-Sheet 5			



Key:

 Newbuild Infrastructure Boundary

SCALE:

0 375 750 Metres

Contains OS data © Crown Copyright and database right 2022

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

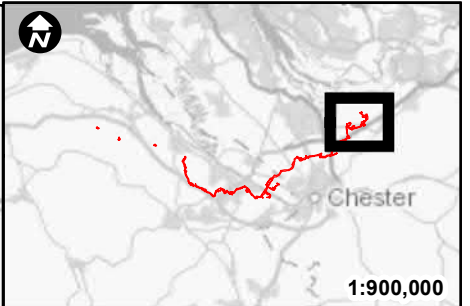
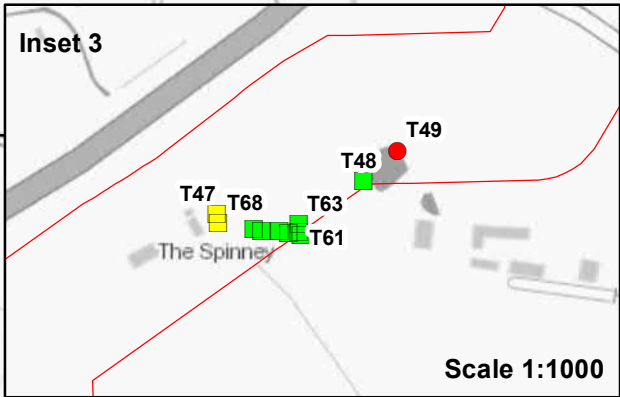
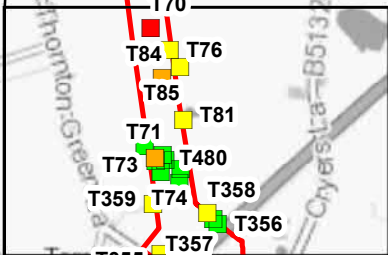
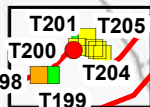
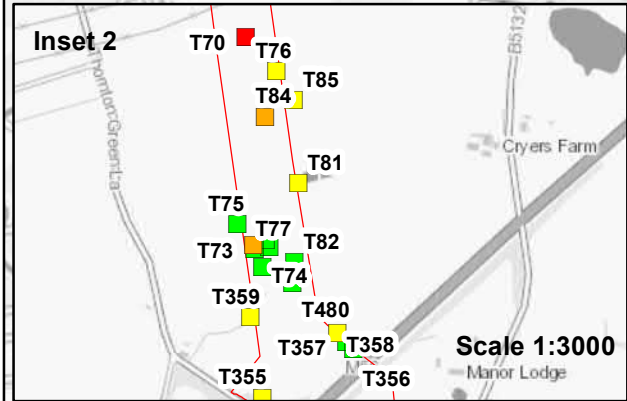
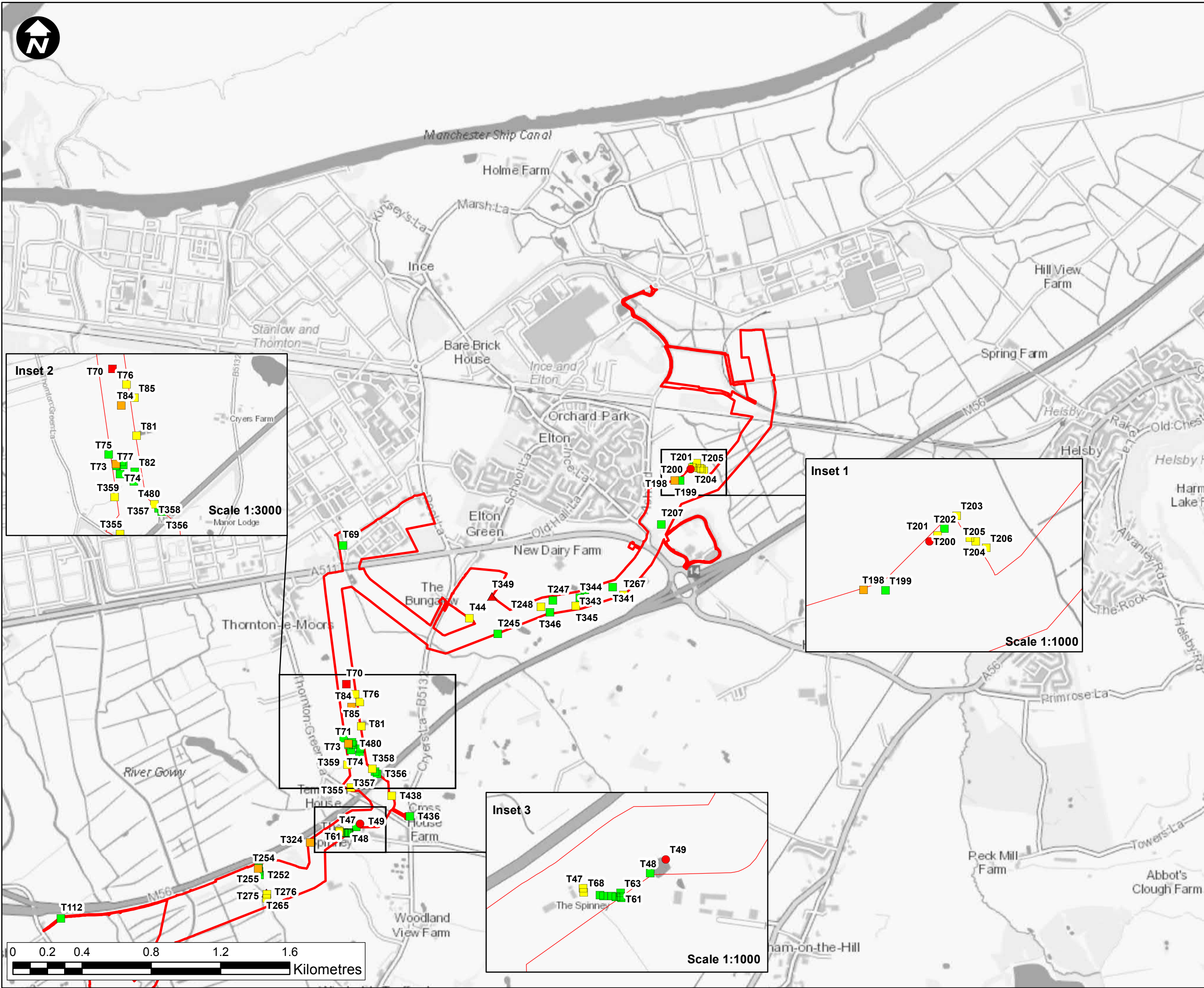
DRAWING STATUS

FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	NC	DC	MT
SCALE @ A3 SIZE		DATE	REVISION
1:20,000		16/01/2023	B

DRAWING NUMBER

D.6.3.9.3 Figure 9.3.1-Sheet 6



Key:

- Newbuild Infrastructure Boundary
- Confirmed Roost
- Potential Roost - Confirmed
- Precautionary Confirmed Roost
- Likely absent - High
- Likely absent - Moderate
- Low

Contains OS data © Crown Copyright and database right 2022

HyNet North West

PROJECT TITLE
**HyNet North West
Carbon Dioxide Pipeline DCO**

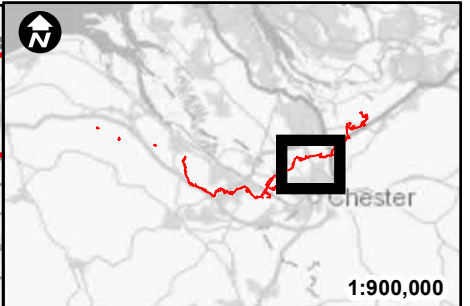
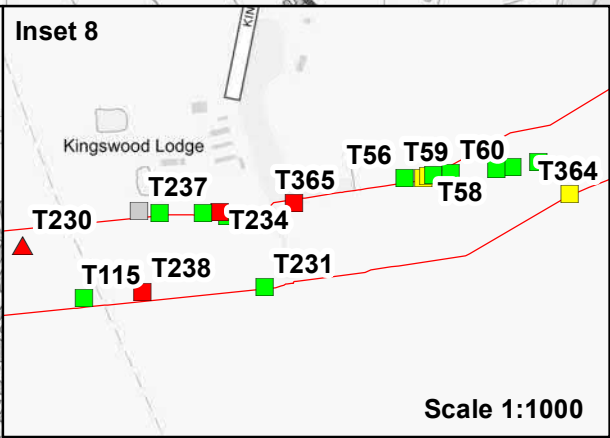
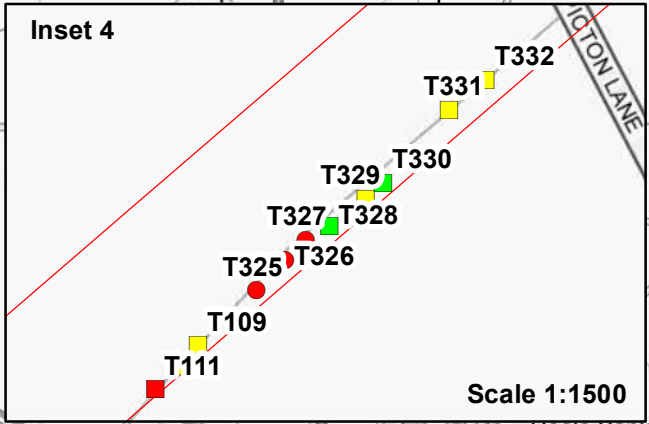
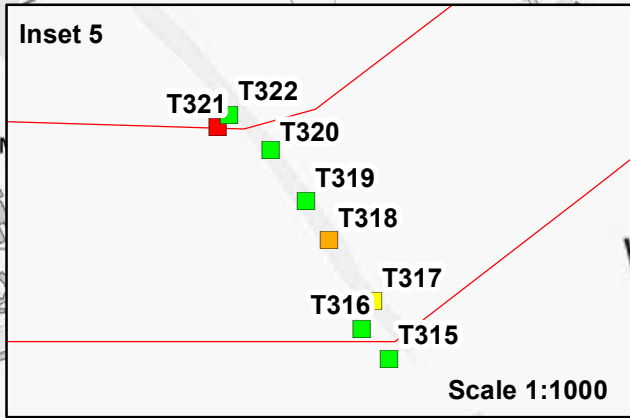
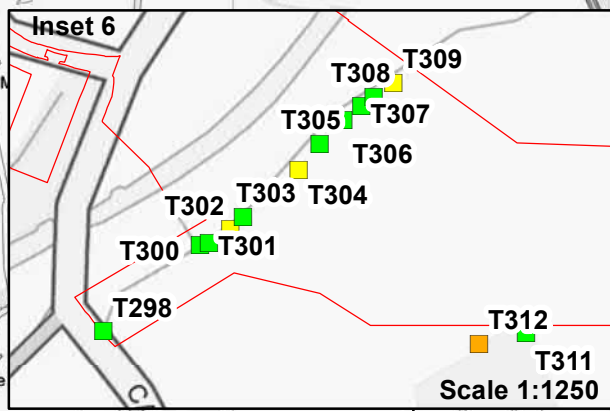
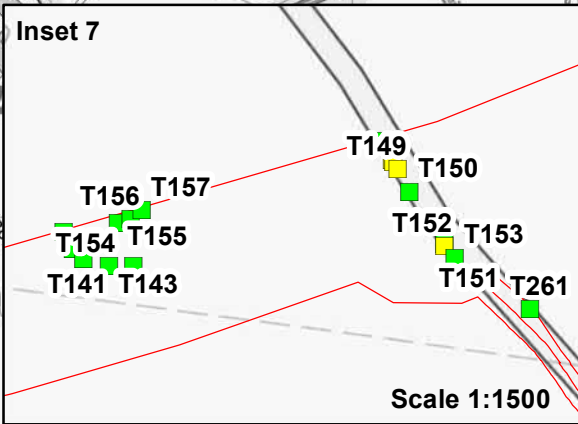
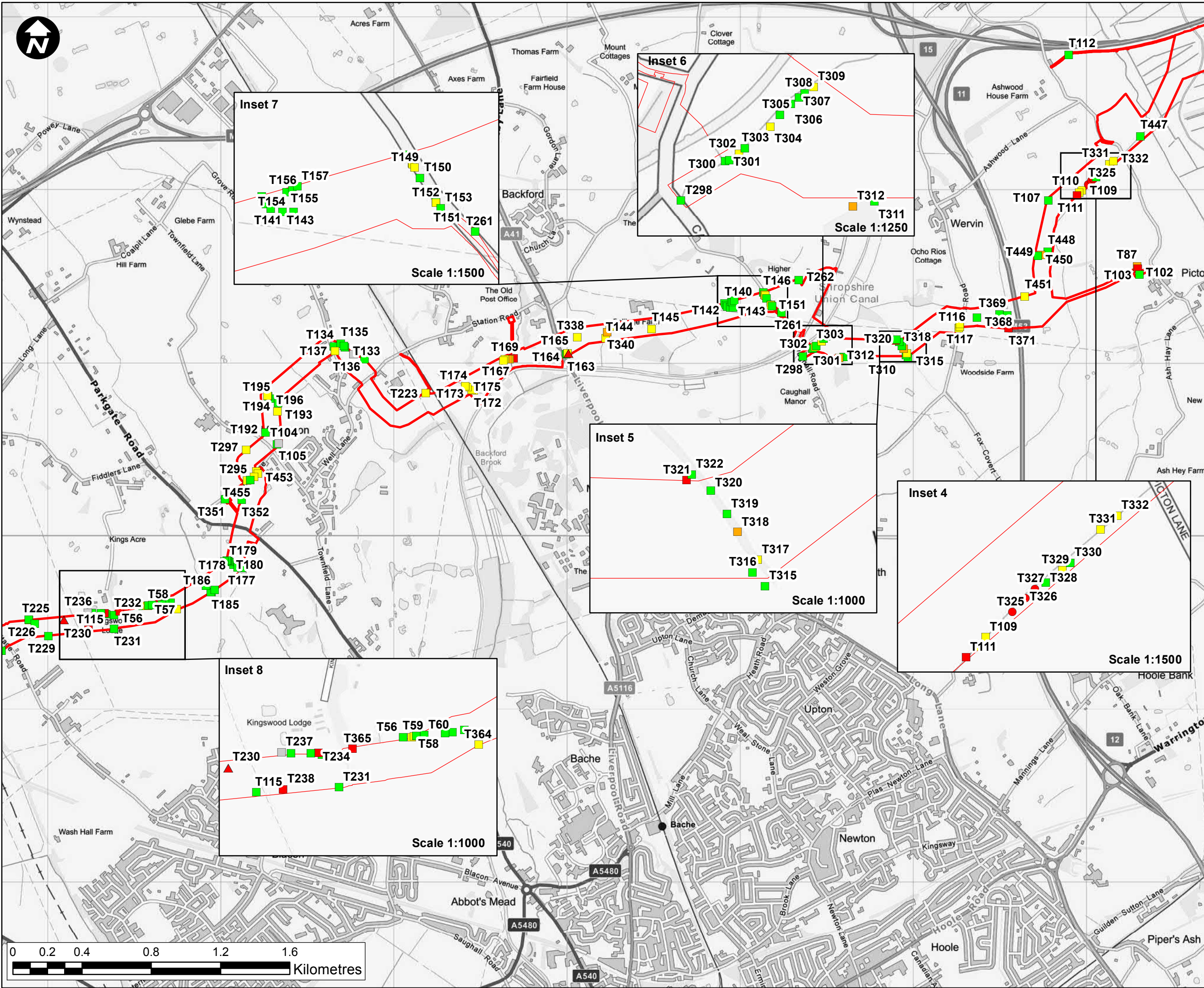
DRAWING TITLE
**Figure 9.3.2 - Trees with Suitability to
Support Bat Roosts Sheet 1 of 7**

DRAWING STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JOK	DC	SP

SCALE @ A3 SIZE	DATE	REVISION
1:20,000	16/01/2023	B

DRAWING NUMBER
EN070007-APP-ES-9.3.2 Sheet 1



Key:

Newbuild Infrastructure Boundary

Suitability

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

Contains OS data © Crown Copyright and database right 2022

HyNet North West

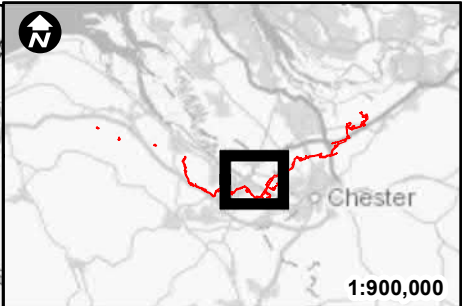
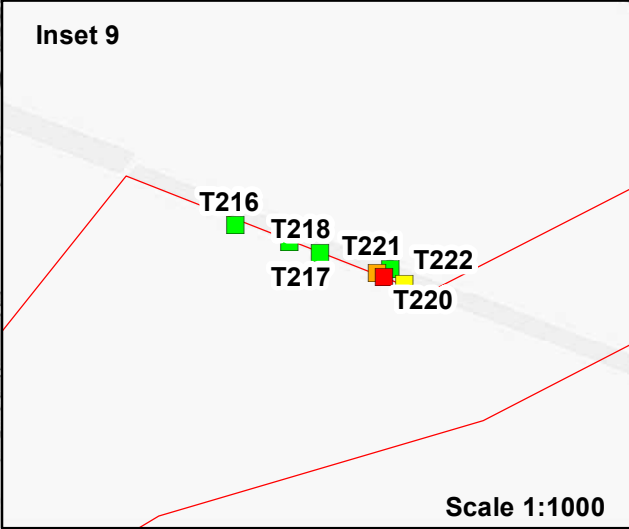
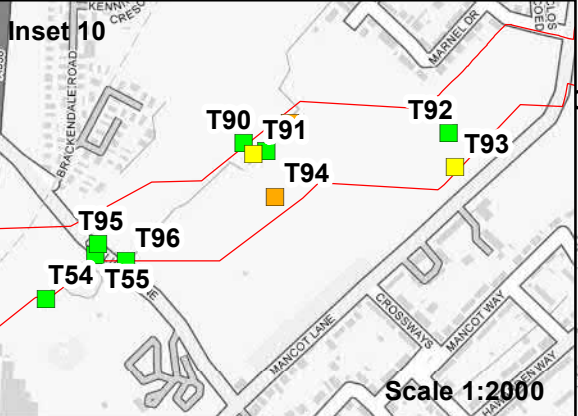
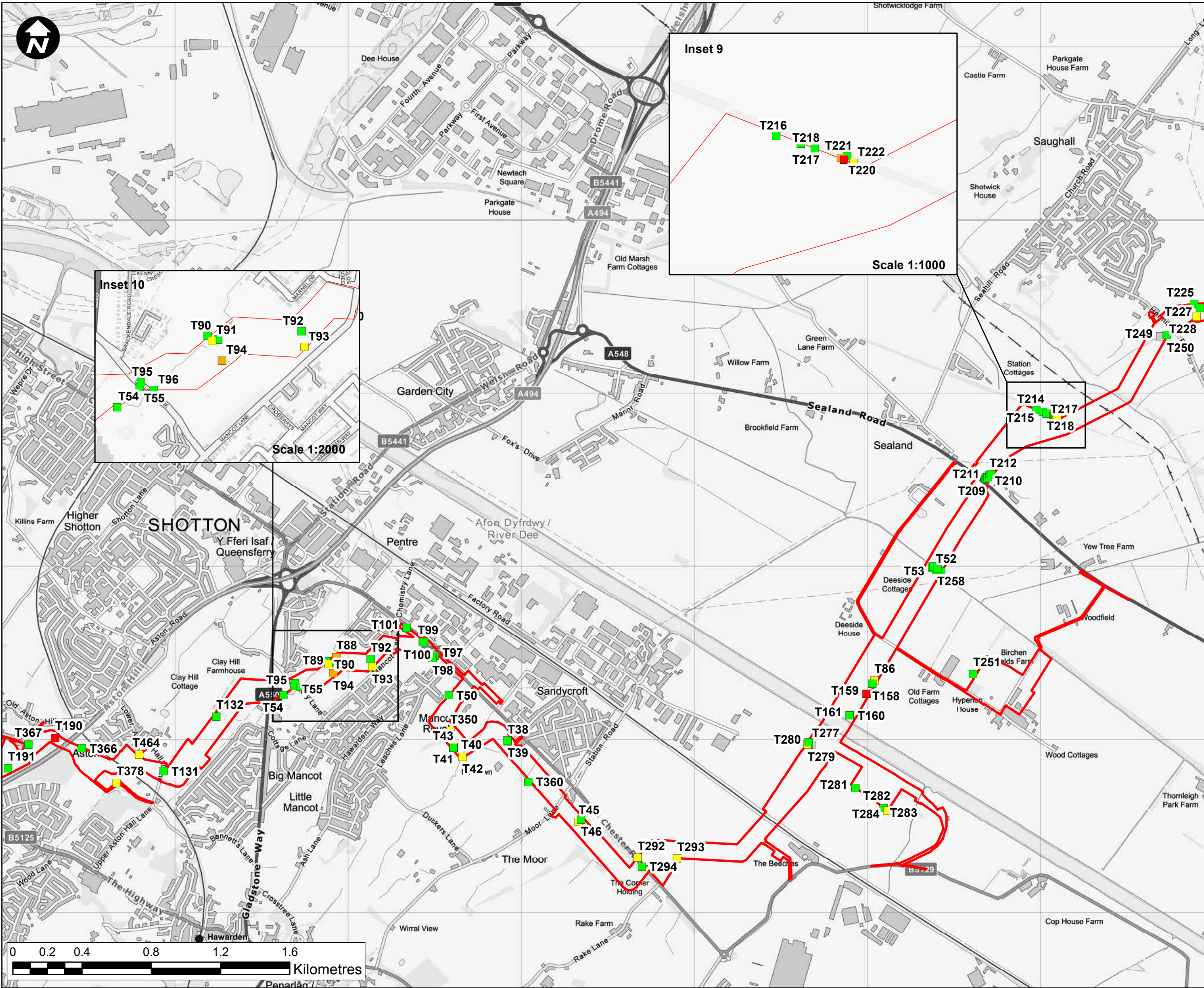
PROJECT TITLE
HyNet North West
Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.2 - Trees with Suitability to Support Bat Roosts Sheet 2 of 7

DRAWING STATUS
FOR INFORMATION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JOK	DC	SP

DRAWING NUMBER
EN070007-APP-ES-9.3.2 Sheet 2



Key:

Newbuild Infrastructure Boundary

Suitability

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

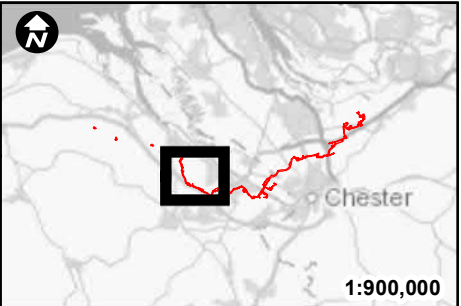
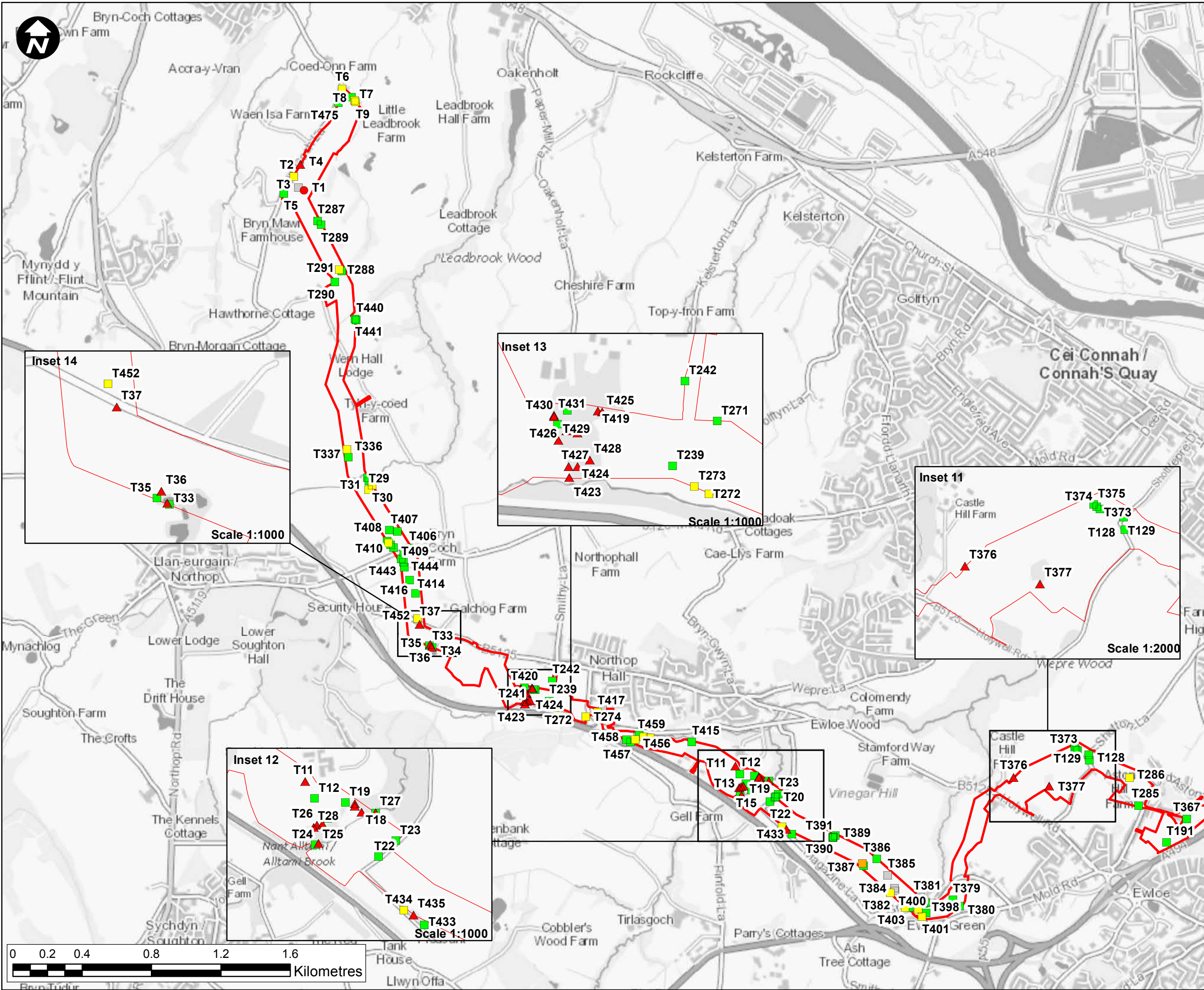
Contains OS data © Crown Copyright and database right 2022

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 7

DRAWING STATUS			
FOR INFORMATION			
DRAWN DM	CHECKED JOK	APPROVED DC	AUTHORISED SP
SCALE @ A3 SIZE 1:20,000		DATE 16/01/2023	REVISION B
DRAWING NUMBER EN070007-APP-ES-9.3.2 Sheet 3			



Key:

Newbuild Infrastructure Boundary

Suitability

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

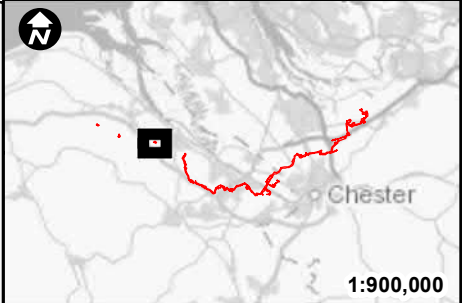
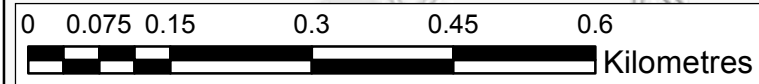
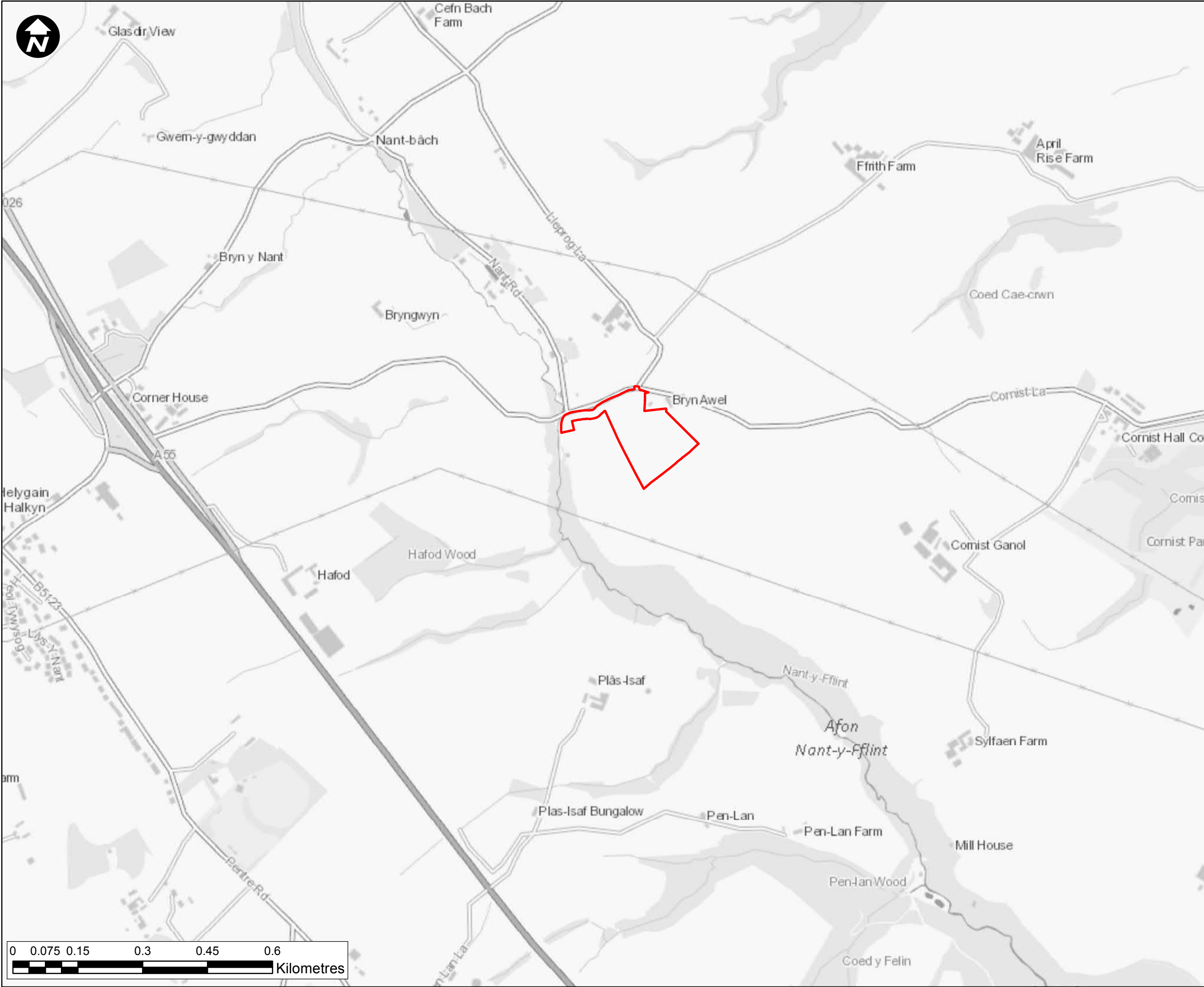
Contains OS data © Crown Copyright and database right 2022

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 7

DRAWING STATUS			
FOR INFORMATION			
DRAWN DM	CHECKED JOK	APPROVED DC	AUTHORISED SP
SCALE @ A3 SIZE 1:20,000		DATE 16/01/2023	REVISION B
DRAWING NUMBER EN070007-APP-ES-9.3.2 Sheet 4			



Key:

 Newbuild Infrastructure Boundary

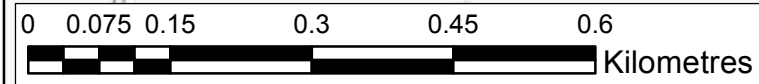
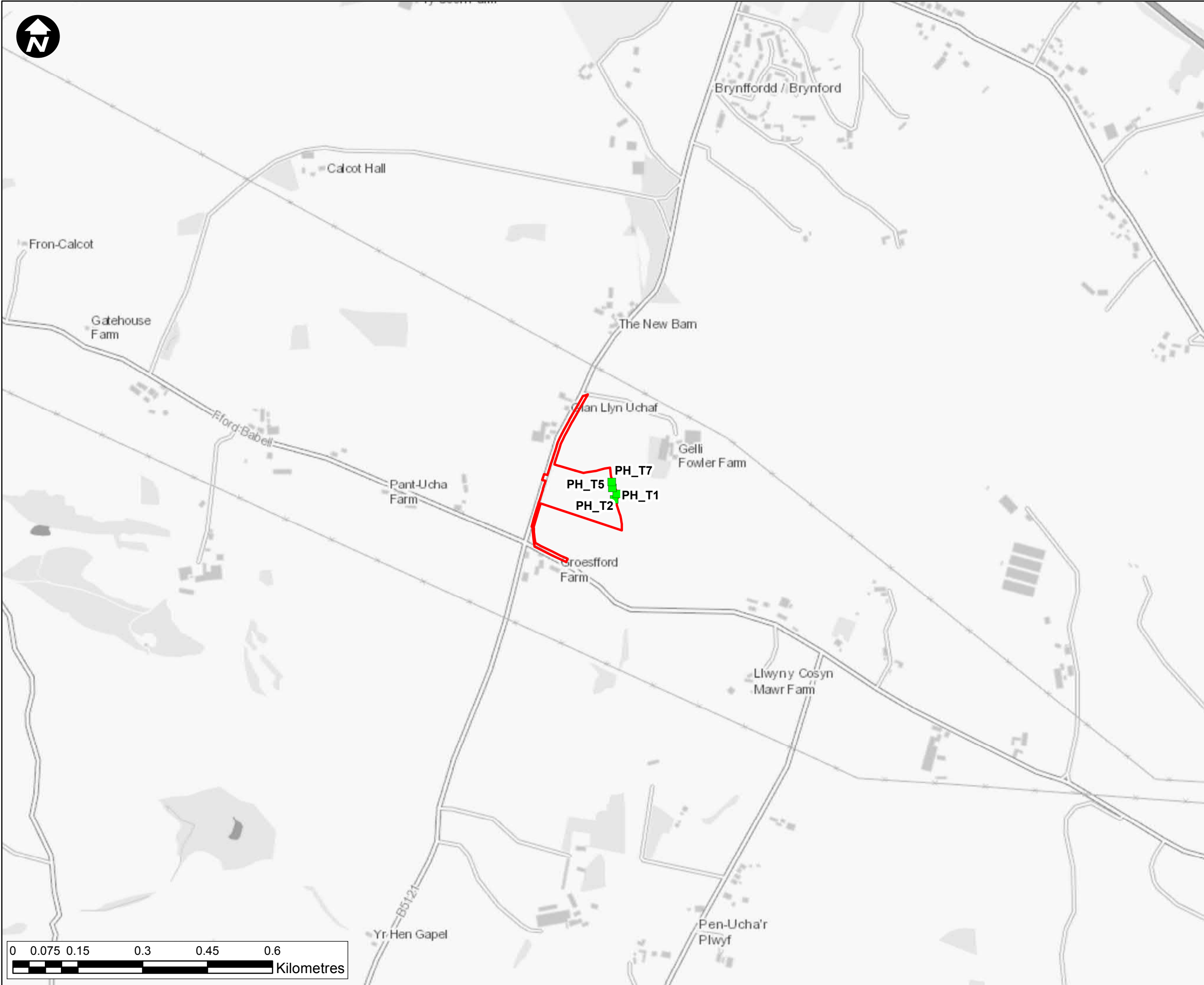
Contains OS data © Crown Copyright and database right 2022

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 7**

DRAWING STATUS			
FOR INFORMATION			
DRAWN DM	CHECKED JOK	APPROVED DC	AUTHORISED SP
SCALE @ A3 SIZE 1:8,000		DATE 16/01/2023	REVISION B
DRAWING NUMBER EN070007-APP-ES-9.3.2 Sheet 5			



Key:

Newbuild Infrastructure Boundary

Suitability

■ Low

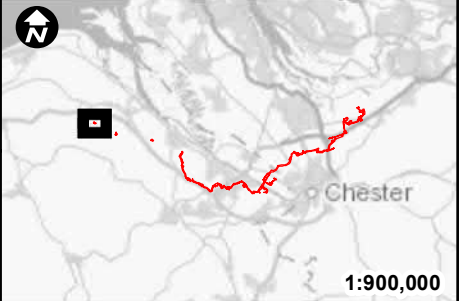
Contains OS data © Crown Copyright and database right 2022

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 7**

DRAWING STATUS			
FOR INFORMATION			
DRAWN DM	CHECKED JOK	APPROVED DC	AUTHORISED SP
SCALE @ A3 SIZE 1:8,000		DATE 16/01/2023	REVISION B
DRAWING NUMBER EN070007-APP-ES-9.3.2 Sheet 6			



Key:

Newbuild Infrastructure Boundary

Suitability

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

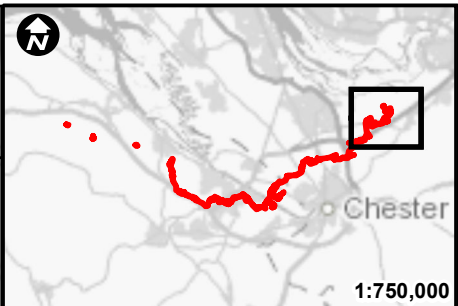
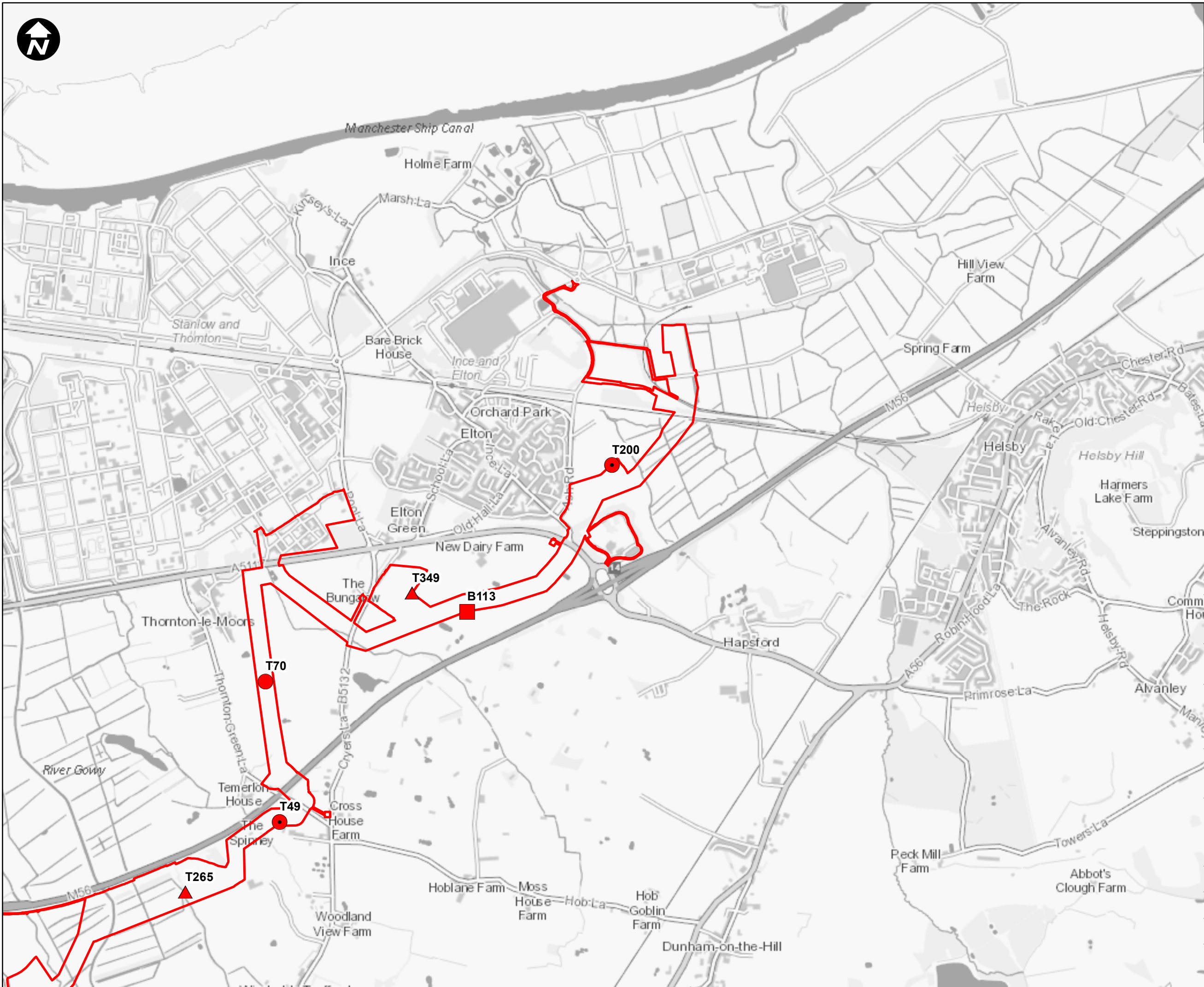
Contains OS data © Crown Copyright and database right 2022

HyNet North West

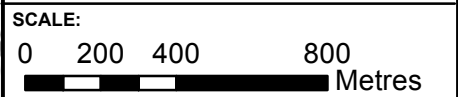
PROJECT TITLE
**HyNet North West
Carbon Dioxide Pipeline DCO**

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

DRAWING STATUS			
FOR INFORMATION			
DRAWN DM	CHECKED JOK	APPROVED DC	AUTHORISED SP
SCALE @ A3 SIZE 1:8,000		DATE 13/01/2023	REVISION B
DRAWING NUMBER EN070007-APP-ES-9.3.2 Sheet 7			



- Key:**
- Newbuild Infrastructure Boundary
 - Bat Roosts**
 - Day roost (Tree)
 - Day roost (Building)
 - ◉ Potential day roost (Tree)
 - ▲ Precautionary Confirmed Roost



Contains OS data © Crown Copyright and database right 2020

HyNet North West

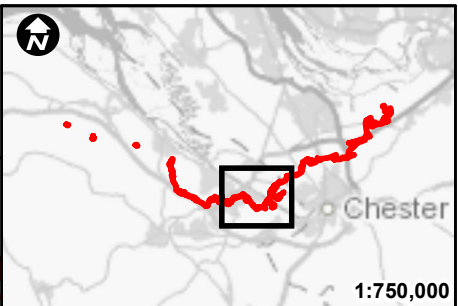
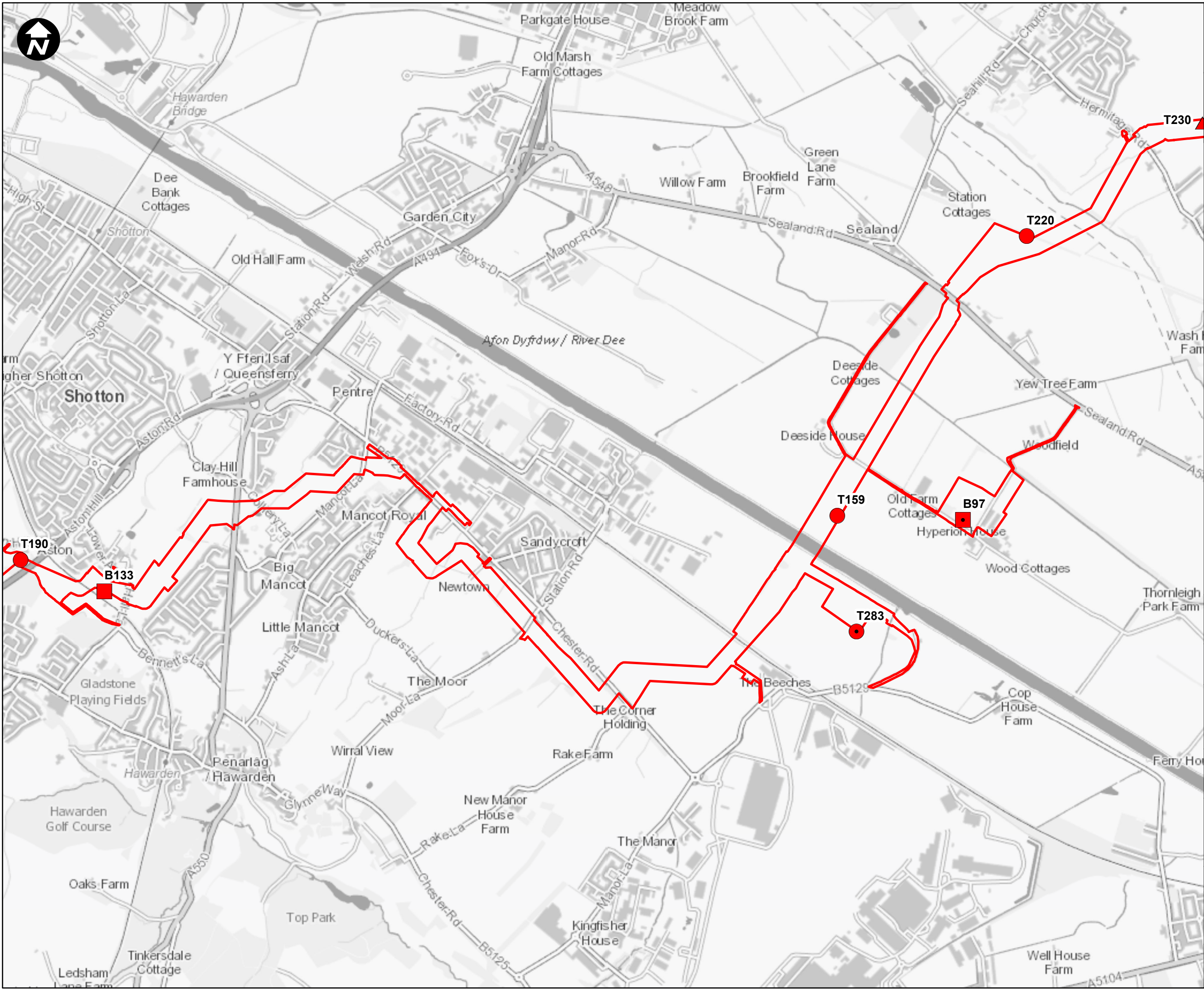
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
Figure 9.3.3
Confirmed Bat Roosts
Sheet 1 of 6

DRAWING STATUS
FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JK	DC	EH
SCALE @ A3 SIZE 1:20,000		DATE 18/01/2023	REVISION B

DRAWING NUMBER
EN070007-APP-ES-9.3.3-Sheet 1

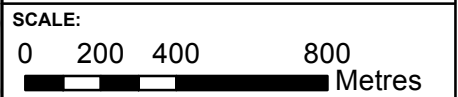


Key:

Newbuild Infrastructure Boundary

Bat Roosts

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



Contains OS data © Crown Copyright and database right 2020

HyNet North West

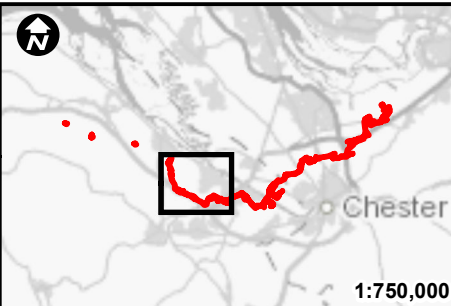
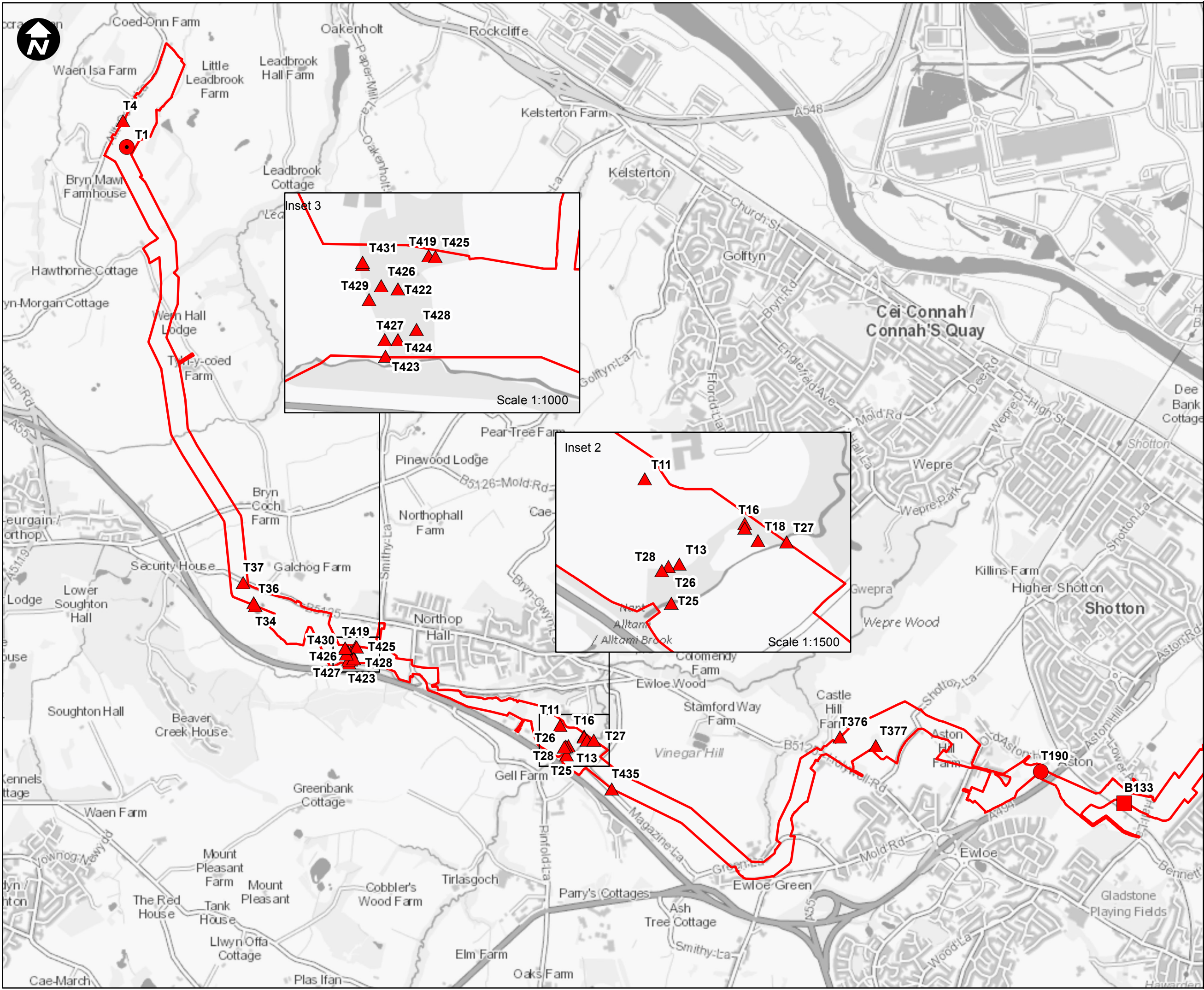
PROJECT TITLE
HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE
**Figure 9.3.3
Confirmed Bat Roosts
Sheet 3 of 6**

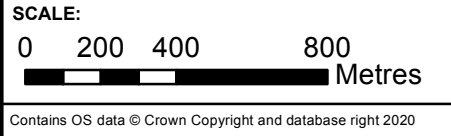
DRAWING STATUS
FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JK	DC	EH
SCALE @ A3 SIZE 1:20,000		DATE 18/01/2023	REVISION B

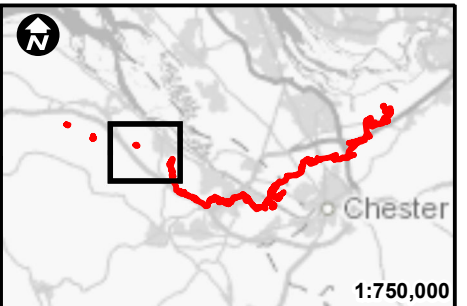
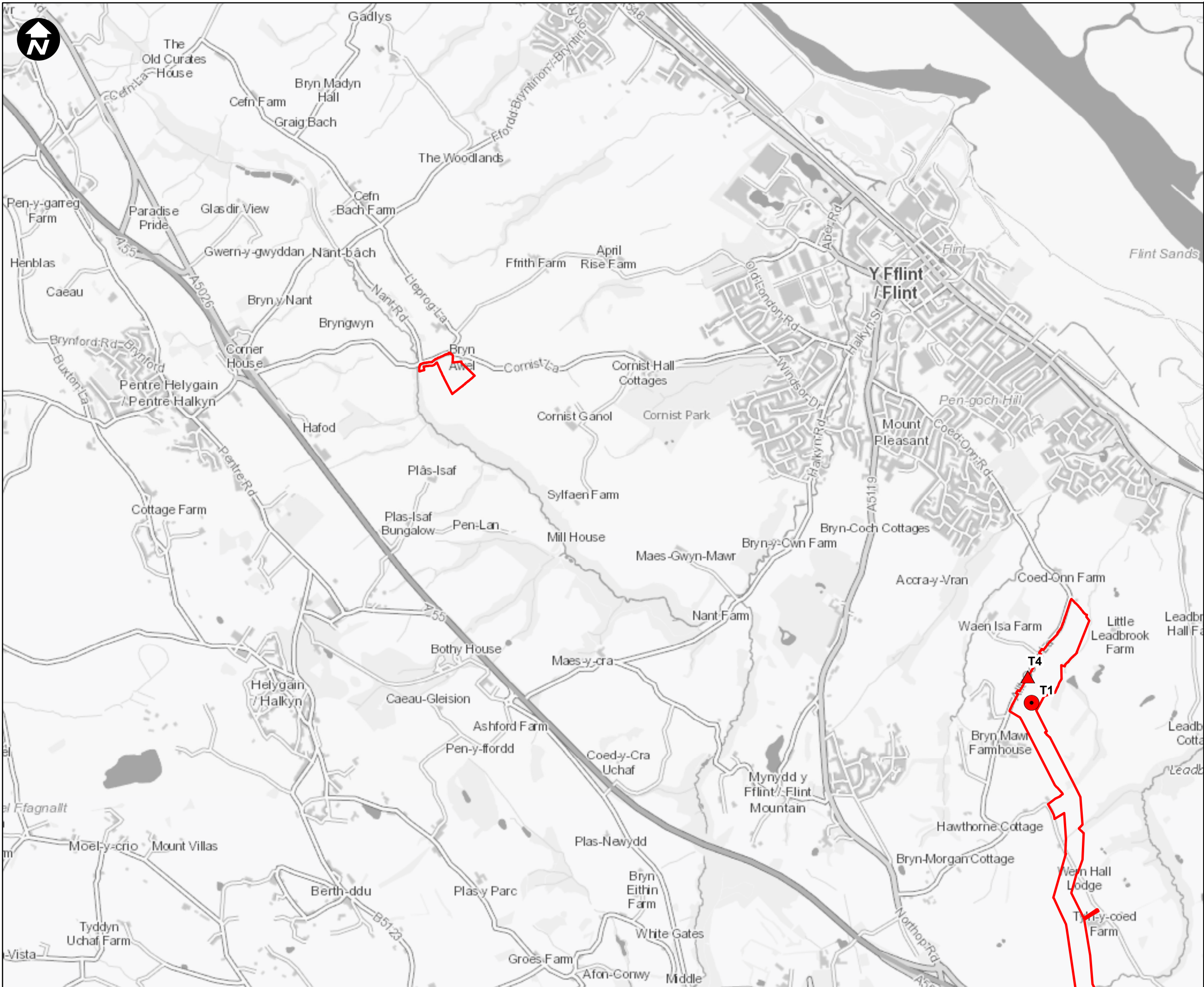
DRAWING NUMBER
EN070007-APP-ES-9.3.3-Sheet 3



- Key:**
- Newbuild Infrastructure Boundary
 - Bat Roosts**
 - Day roost (Tree)
 - Day roost (Building)
 - Potential day roost (Tree)
 - Precautionary Confirmed Roost



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 DCO SUBMISSION			
DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JK	DC	EH
SCALE @ A3 SIZE		DATE	REVISION
1:20,000		18/01/2023	B
DRAWING NUMBER			
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

Contains OS data © Crown Copyright and database right 2020

HyNet North West

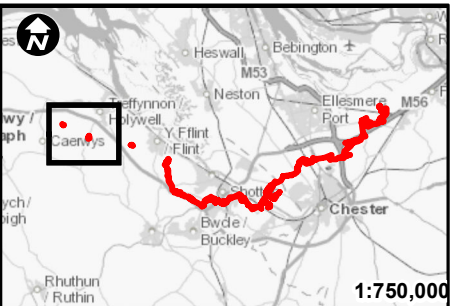
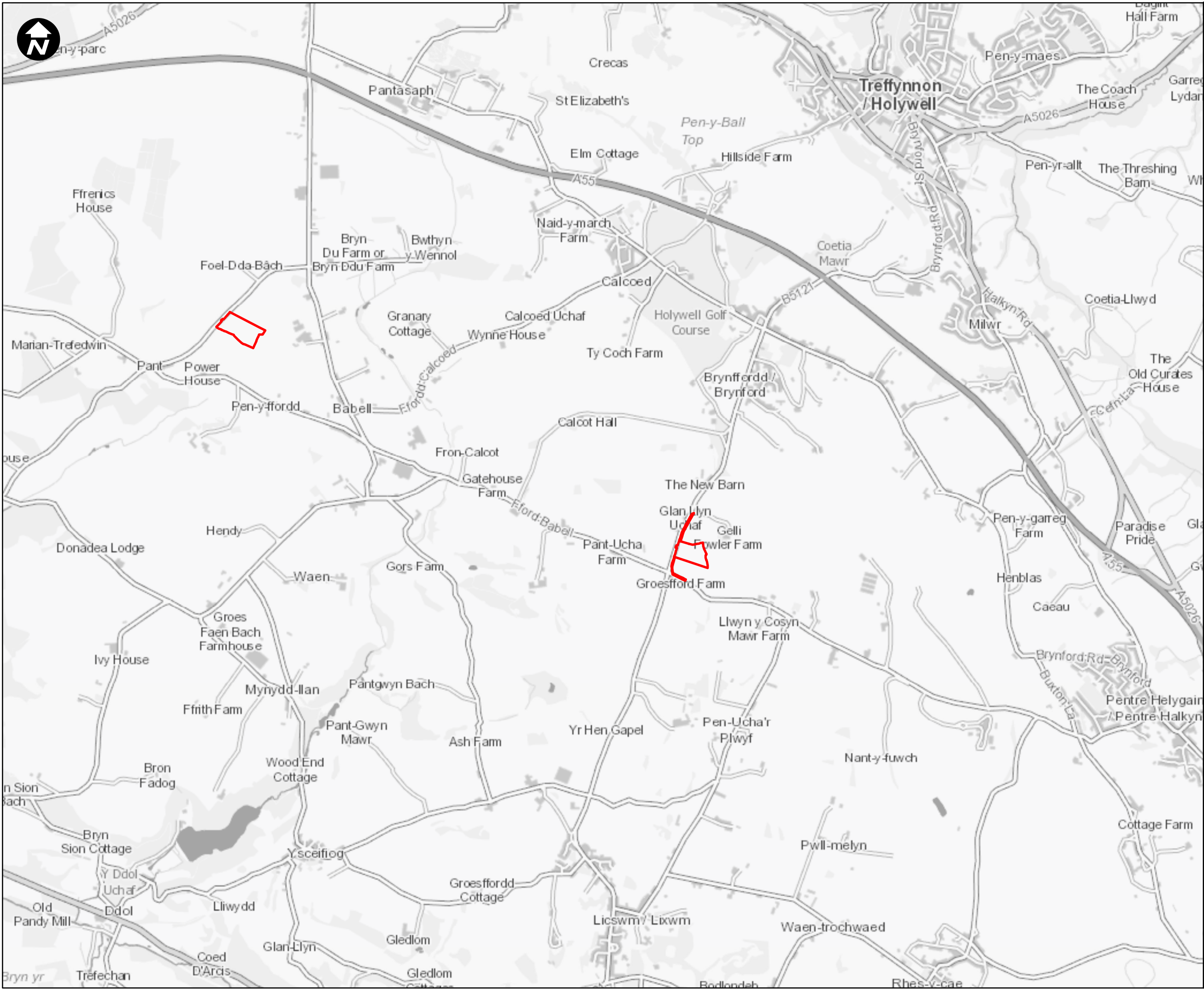
PROJECT TITLE

HyNet Carbon Dioxide Pipeline DCO

DRAWING TITLE

Figure 9.3.3
Confirmed Bat Roosts
Sheet 5 of 6

DRAWING STATUS			
FOR DCO SUBMISSION			
DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JK	DC	EH
SCALE @ A3 SIZE		DATE	REVISION
1:20,000		18/01/2023	B
DRAWING NUMBER			
EN070007-APP-ES-9.3.3-Sheet 5			



Key:

Newbuild Infrastructure Boundary

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 6 of 6

DRAWING STATUS

FOR DCO SUBMISSION

DRAWN	CHECKED	APPROVED	AUTHORISED
DM	JK	DC	EH
SCALE @ A3 SIZE 1:20,000		DATE 18/01/2023	REVISION B

DRAWING NUMBER

EN070007-APP-ES-9.3.3-Sheet 6

Annex B

DESK STUDY RESULT

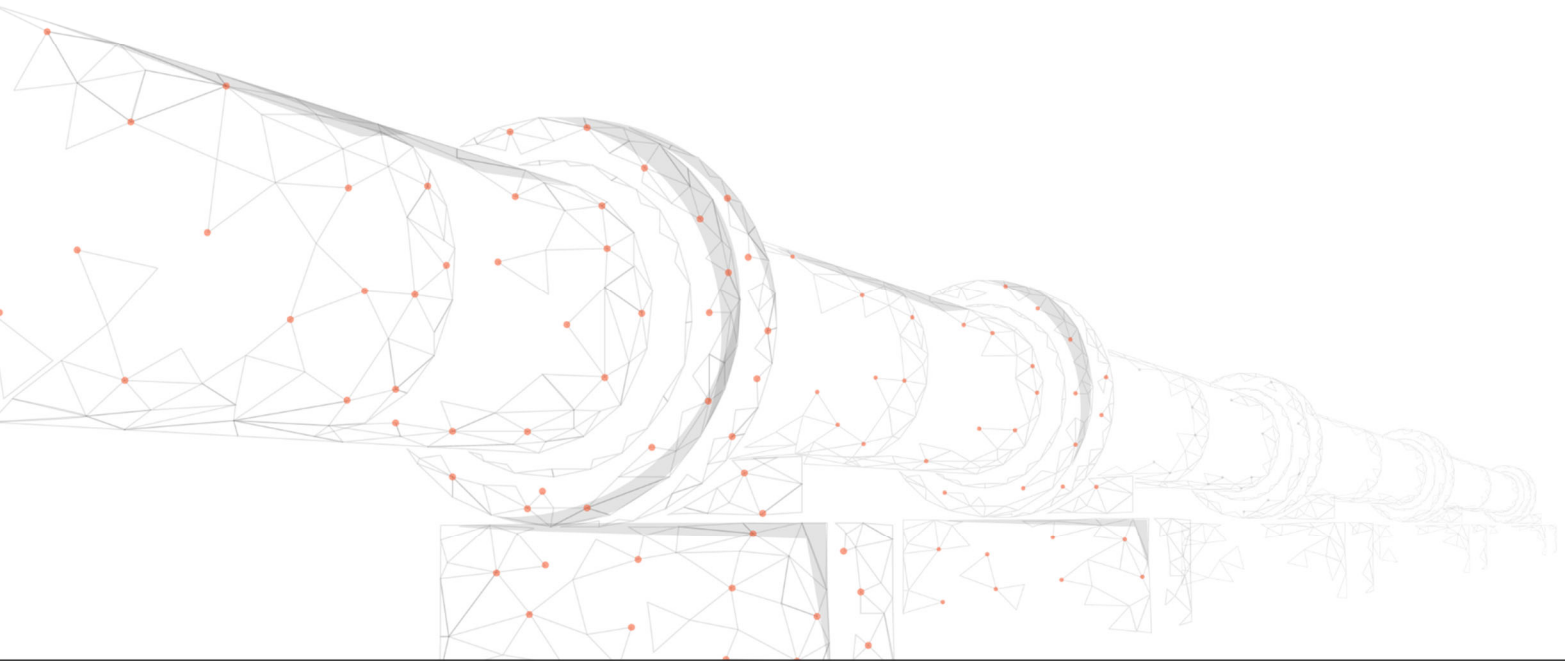


Table 4 - Desk Study Results – Records of Bats within 2km of the Newbuild Infrastructure Boundary

Latin Name	Common Name	Date	Distance from Site	Record Details
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	04/07/2012	0.01km south	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 9
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	30/07/2012	0.01km south	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 11
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	09/08/2017	0.05km west	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	05/07/2017	0.05km west	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	22/08/2017	0.05km west	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	22/08/2017	0.05km west	None
<i>Chiroptera sp.</i>	Unidentified bat	13/08/2012	0.13km west	HT: Detector - heterodyne
<i>Myotis daubentonii</i>	Daubenton's bat	13/08/2012	0.13km west	HT: Detector - heterodyne
<i>Plecotus auritus</i>	Brown long-eared bat	22/08/2017	0.18km west	None
<i>Nyctalus noctula</i>	Noctule	15/06/2013	0.23km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	15/06/2013	0.27km south	None
<i>Chiroptera sp.</i>	Unidentified bat	15/06/2013	0.27km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	30/08/2016	0.31km east	None
<i>Nyctalus noctula</i>	Noctule	30/08/2016	0.31km east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	30/08/2016	0.31km east	None
<i>Rhinolophus hipposideros</i>	Lesser horseshoe bat	06/06/2016	0.34km south-west	Summer day roost in cottage. Emergence survey.
<i>Nyctalus noctula</i>	Noctule	06/06/2016	0.34km south-west	Foraging in area. Emergence survey.
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	06/06/2016	0.34km south-west	Foraging in area. Emergence survey.
<i>Chiroptera sp.</i>	Unidentified bat	05/07/2017	0.34km east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	01/08/2019	0.45km south	Roosting in Buildings
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	01/08/2019	0.45km south	Roosting in Buildings
<i>Rhinolophus hipposideros</i>	Lesser horseshoe bat	01/08/2019	0.45km south	Roosting in Buildings
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	01/05/2012	0.49km north-west	Emergence observation
<i>Plecotus auritus</i>	Brown long-eared bat	01/05/2012	0.49km north-west	Observed in roof
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	16/08/2012	0.53km north	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	13/08/2012	0.53km north	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	06/08/2012	0.53km north	None
<i>Chiroptera sp.</i>	Unidentified bat	06/08/2012	0.53km north	None
<i>Chiroptera sp.</i>	Unidentified bat	13/08/2012	0.53km north	None
<i>Chiroptera sp.</i>	Unidentified bat	16/08/2012	0.53km north	None
<i>Plecotus auratus</i>	Brown long-eared bat	06/08/2012	0.53km north	None
<i>Plecotus auratus</i>	Brown long-eared bat	13/08/2012	0.53km north	None
<i>Plecotus auratus</i>	Brown long-eared bat	16/08/2012	0.53km north	None
<i>Nyctalus noctule</i>	Noctule	06/08/2012	0.53km north	None
<i>Nyctalus noctule</i>	Noctule	16/08/2012	0.53km north	None
<i>Nyctalus noctule</i>	Noctule	13/08/2012	0.53km north	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	13/08/2012	0.53km north	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	16/08/2012	0.53km north	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	06/08/2012	0.53km north	None

Latin Name	Common Name	Date	Distance from Site	Record Details
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	15/06/2013	0.54km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	20/08/2012	0.58km north	None
<i>Plecotus auritus</i>	Brown long-eared bat	20/08/2012	0.58km north	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	20/08/2012	0.58km north	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	13/08/2019	0.59km south-east	Adult. Roost
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	20/07/2014	0.59km north	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	24/06/2014	0.59km north	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	02/07/2014	0.59km north	None
<i>Plecotus auritus</i>	Brown long-eared bat	24/06/2014	0.59km north	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	24/06/2014	0.59km north	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	28/08/2018	0.59km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	04/09/2018	0.59km south	None
<i>Chiroptera sp.</i>	Unidentified bat	04/09/2018	0.59km south	None
<i>Chiroptera sp.</i>	Unidentified bat	16/08/2018	0.59km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	16/08/2018	0.59km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	28/08/2018	0.59km south	None
<i>Nyctalus noctula</i>	Noctule	04/09/2018	0.59km south	None
<i>Nyctalus noctula</i>	Noctule	28/08/2018	0.59km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	16/08/2018	0.59km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	04/09/2018	0.59km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	12/2017-12/2017	0.60km north	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	16/08/2018	0.60km south	None
<i>Nyctalus noctula</i>	Noctule	16/08/2018	0.60km south	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	11/03/2020	0.69km south	Adult. Roost.
<i>Pipistrellus sp.</i>	Pipistrelle sp.	12/03/2020	0.69km south	Adult. Roost.
<i>Pipistrellus sp.</i>	Pipistrelle sp.	08/04/2019	0.69km south	Adult
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	23/06/2017	0.71km south-east	Adult
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	01/07/2017	0.71km south-east	Adult
<i>Nyctalus noctula</i>	Noctule	23/06/2017	0.71km south-east	Adult
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	01/07/2017	0.71km south-east	Adult
<i>Nyctalus noctula</i>	Noctule	12/09/2019	0.73km south-east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	12/09/2019	0.73km south-east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	09/07/2019	0.74km south	Emergence.
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	25/07/2019	0.74km south	Emergence.
<i>Chiroptera sp.</i>	Unidentified bat	25/07/2019	0.74km south	None
<i>Chiroptera sp.</i>	Unidentified bat	09/07/2019	0.74km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	17/07/2019	0.74km south	None
<i>Plecotus auritus</i>	Brown long-eared bat	19/06/2019	0.74km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	25/07/2019	0.74km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	09/07/2019	0.74km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	02/07/2019	0.74km south	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	25/07/2019	0.74km south	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	09/07/2019	0.74km south	None

Latin Name	Common Name	Date	Distance from Site	Record Details
<i>Pipistrellus sp.</i>	Pipistrelle sp.	19/06/2019	0.74km south	None
<i>Chiroptera sp.</i>	Unidentified bat	09/08/2017	0.79km north-west	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	05/07/2017	0.79km north-west	None
<i>Plecotus auratus</i>	Brown long-eared bat	11/03/2020	0.79km south	Adult. Roost.
<i>Chiroptera sp.</i>	Unidentified bat	22/08/2017	0.79km north-west	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	09/08/2017	0.8km north-west	None
<i>Plecotus auratus</i>	Brown long-eared bat	29/05/2019	0.8km south	Emergence
<i>Chiroptera sp.</i>	Unidentified bat	18/06/2019	0.8km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	29/05/2019	0.8km south	None
<i>Plecotus auritus</i>	Brown long-eared bat	02/07/2019	0.8km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	29/05/2019	0.8km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	02/07/2019	0.8km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	18/06/2019	0.8km south	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	18/06/2019	0.8km south	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	29/05/2019	0.8km south	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	02/07/2019	0.8km south	None
<i>Plecotus auritus</i>	Brown long-eared bat	03/04/2019	0.8km south	Adult male
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	06/09/2014	0.83km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	11/08/2016	0.83km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	24/05/2016	0.83km south	None
<i>Plecotus auratus</i>	Brown long-eared bat	06/09/2014	0.83km south	None
<i>Nyctalus noctula</i>	Noctule	06/09/2014	0.83km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	06/09/2014	0.83km south	None
<i>Myotis daubentonii</i>	Daubenton's bat	06/09/2014	0.83km south	None
<i>Plecotus auritus</i>	Brown long-eared bat	16/05/2015-17/05/2015	0.83km south	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	16/05/2015-17/05/2015	0.83km south	None
<i>Myotis nattereri</i>	Natterer's bat	16/05/2015-17/05/2015	0.83km south	None
<i>Myotis mystacinus/brandtii</i>	Whiskered/Brandt's bat	16/05/2015-17/05/2015	0.83km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	16/05/2015-17/05/2015	0.84km south	None
<i>Eptesicus serotinus</i>	Serotine	16/05/2015-17/05/2015	0.84km south	None
<i>Plecotus auritus</i>	Brown long-eared bat	2012	0.86km north	Roost in loft space
<i>Nyctalus noctula</i>	Noctule	16/05/2015-17/05/2015	0.91km south	None
<i>Myotis daubentonii</i>	Daubenton's bat	16/05/2015-17/05/2015	0.91km south	None
<i>Pipistrellus nathusii</i>	Nathusius' pipistrelle	16/05/2015-17/05/2015	0.91km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	18/04/2017	1.03km north-west	Adult
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	04/05/2017	1.03km north-west	Adult
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	18/04/2017	1.03km north-west	Adult
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	04/05/2017	1.03km north-west	Adult
<i>Chiroptera sp.</i>	Unknown bat	18/05/2017	1.1km south-west	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	24/04/2013	1.17km north	Adult
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	24/04/2014	1.17km north	Adult
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	12/07/2013	1.19km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	15/08/2013	1.19km south-east	None

Latin Name	Common Name	Date	Distance from Site	Record Details
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	23/08/2013	1.19km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	11/07/2013	1.19km south-east	None
<i>Nyctalus noctula</i>	Noctule	11/07/2013	1.19km south-east	None
<i>Myotis daubentonii</i>	Daubenton's bat	07/05/2019	1.22km south	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	04/07/2013	1.22km south-east	None
<i>Nyctalus noctula</i>	Noctule	04/07/2013	1.22km south-east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	04/07/2013	1.22km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	15/07/2012 – 17/07/2014	1.26km north-east	HT: Detector – heterodyne. 3 records between noted dates
<i>Pipistrellus sp.</i>	Pipistrelle bat species	15/07/2012 – 29/07/2012	1.26km north-east	HT: Detector – heterodyne. 2 records between noted dates
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	15/07/2012 – 29/07/2012	1.26km north-east	HT: Detector – heterodyne. 2 records between noted dates/
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	19/10/2018	1.44km south	Flying around house at dusk
<i>Pipistrellus sp.</i>	Pipistrelle bat species	18/06/2012	1.44km south-west	Small number of droppings
<i>Pipistrellus sp.</i>	Pipistrelle sp.	22/04/2014	1.48km north	None
<i>Nyctalus noctula</i>	Noctule	08/10/2019	1.69km west	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	07/07/2013	1.73km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	08/07/2013	1.73km south-east	None
<i>Chiroptera sp.</i>	Unidentified bat	08/07/2013	1.73km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	23/07/2013	1.76km south-east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	23/07/2013	1.76km south-east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	07/07/2013	1.76km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	08/10/2019	1.79km west	Organised field trip with students
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	05/05/2014	1.82km north	Air Cadets Hut. Foraging
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	15/07/2012	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 14
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	15/07/2012	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 22
<i>Pipistrellus sp.</i>	Pipistrelle sp.	15/07/2012	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 2
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	29/07/2012	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 1
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	29/07/2012	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 4
<i>Pipistrellus sp.</i>	Pipistrelle sp.	29/07/2012	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 1

Latin Name	Common Name	Date	Distance from Site	Record Details
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	17/07/2014	1.94km north-west	Number of passes counted with the aid of a bat detector along a roughly triangular route within a 1km square: 20
<i>Plecotus auritus</i>	Brown long-eared bat	03/07/2014	1.98km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	17/07/2014	1.98km south-east	None
<i>Nyctalus noctule</i>	Noctule	03/07/2014	1.98km south-east	None
<i>Nyctalus noctula</i>	Noctule	17/07/2014	1.98km south-east	None
<i>Pipistrellus sp.</i>	Pipistrelle sp.	03/07/2014	1.98km south-east	None
<i>Pipistrellus pipistrellus</i>	Common pipistrelle	03/07/2014	1.98km south-east	None
<i>Pipistrellus pygmaeus</i>	Soprano pipistrelle	17/07/2014	1.98km south-east	None
<i>Plecotus auritus</i>	Brown long-eared bat	02/06/2016	1.99km north-west	None

Annex C

STRUCTURES SURVEY RESULTS

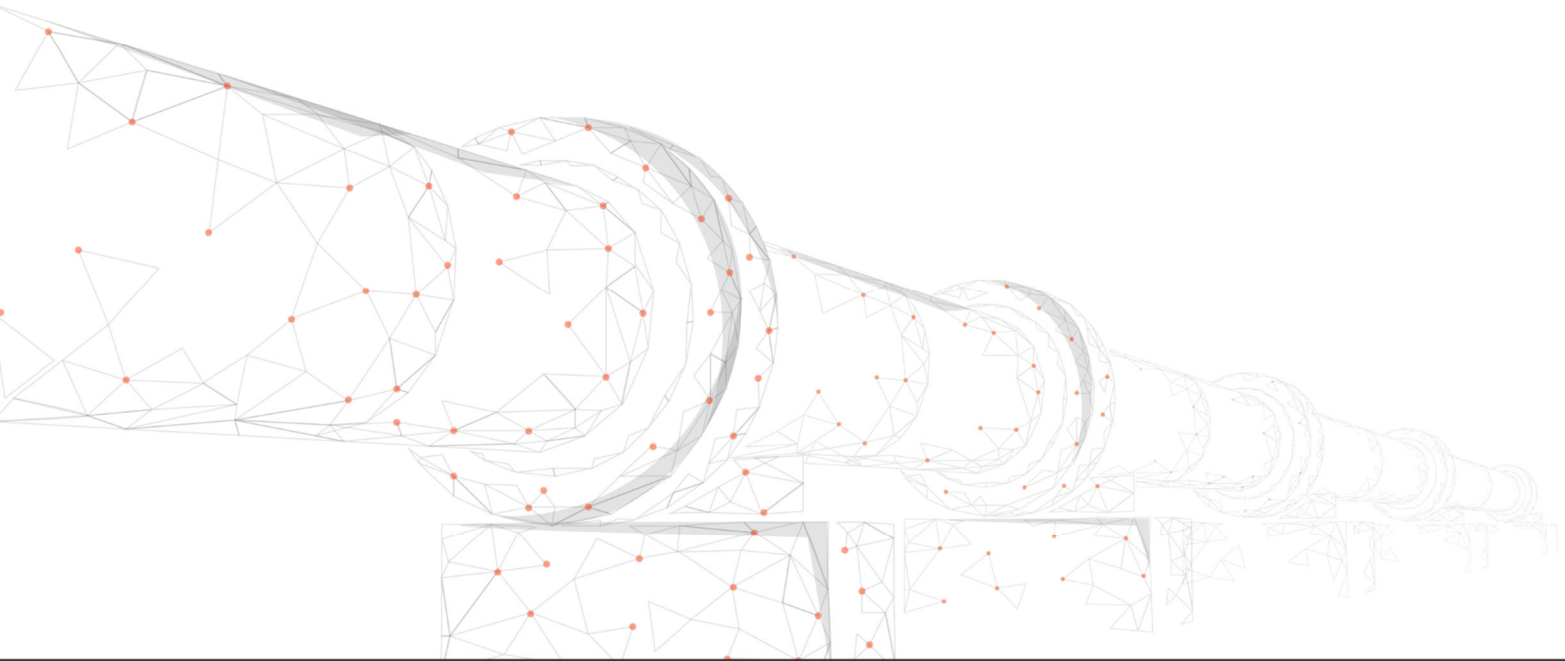


Table 5 - Structures Survey Results

Structure Reference	Grid 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
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

Structure Reference	Grid reference	Structure Type	Suitability Following PRA	Emergence -Survey 1	Emergence/ Re-entry - Survey 2	Emergence/ Re-entry - Survey 3	Final Suitability
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
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
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

Structure Reference	Grid reference	Structure Type	Suitability Following PRA	Emergence -Survey 1	Emergence/ Re-entry - Survey 2	Emergence/ Re-entry - Survey 3	Final Suitability
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

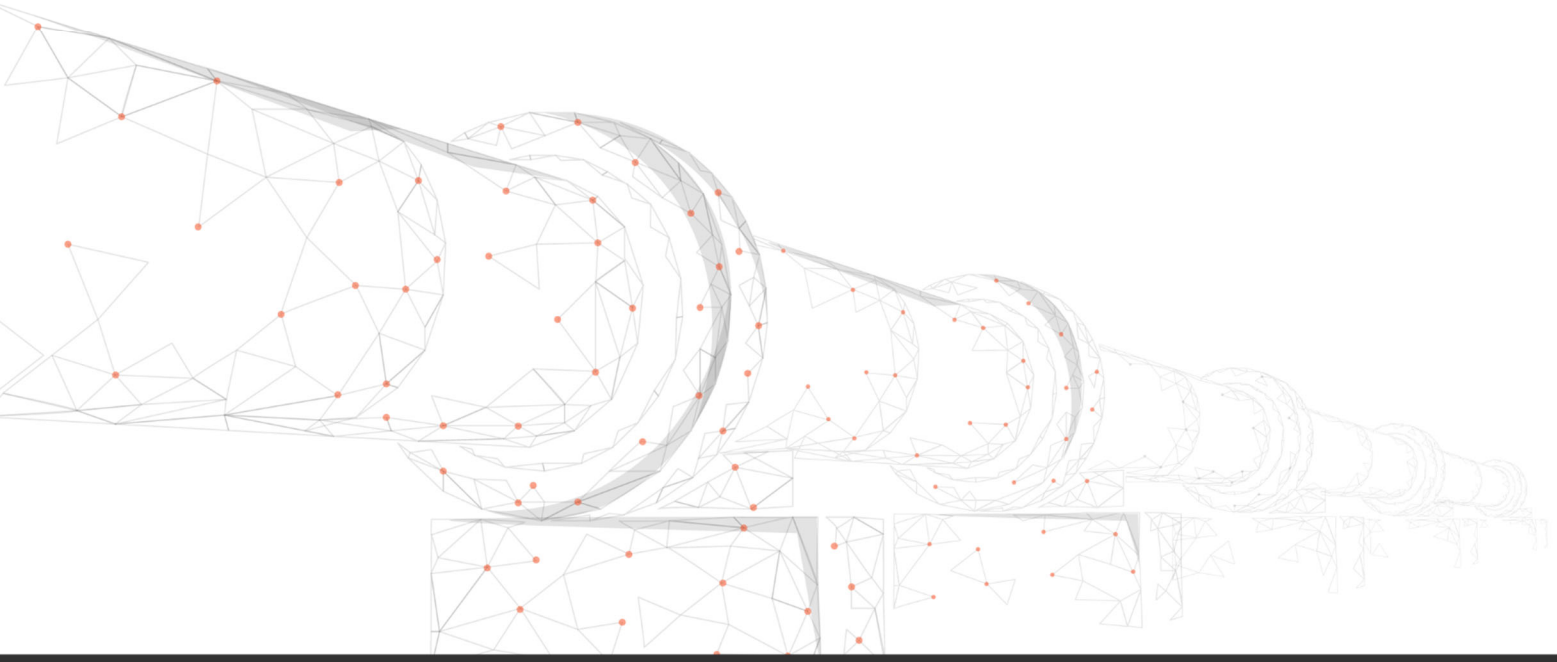


Table 6 - Tree Survey Results

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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	SJ148347 4569	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	04/05/2022	17/05/2022	Not Required	Likely absent - Moderate
BB_T876	SJ147897 4544	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	19/05/2022	07/06/2022	05/07/2022	Likely absent - High
BB_T874	SJ148367 4562	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T1	SJ175137 3246	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T2	SJ175197 3258	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T5	SJ175097 3272	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
PH_T7	SJ175087 3286	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T1	SJ250557 0594	Pedunculate oak <i>Quercus robur</i>	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, where required	Potential Roost - Confirmed
T2	SJ249957 0674	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	30/06/2022	19/07/2022	Not Required	Likely absent - Moderate
T3	SJ250227 0612	Pedunculate oak <i>Quercus robur</i>	Moderate	24/05/2022	Negligible	Not Required	Not Required	Not Required	Negligible
T4	SJ250337 0743	Pedunculate oak <i>Quercus robur</i>	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	SJ249387 0578	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T6	SJ252757 1181	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	02/09/2021	28/06/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T7	SJ253307 1132	Oak sp. <i>Quercus sp.</i>	Moderate	21/07/2021	Low	Not Required	Not Required	Not Required	Low
T8	SJ253477 1113	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	02/09/2021	28/06/2022	Not Required	Likely absent - Moderate
T9	SJ253537 1105	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	03/09/2021	29/06/2022	Not Required	Likely absent - Moderate
T11	SJ275446 7274	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T12	SJ275706 7228	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T13	SJ275916 7158	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T14	SJ276066 7172	Poplar <i>Populus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T15	SJ276376 7134	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T16	SJ276806 7213	Beech <i>Fagus sylvatica</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T17	SJ276806 7207	Beech <i>Fagus sylvatica</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T18	SJ276986 7190	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T19	SJ276546 7217	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T20	SJ277786 7097	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T21	SJ277736 7094	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T22	SJ277456 7069	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T23	SJ277926 7112	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T24	SJ275716 7101	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T25	SJ275806 7105	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T26	SJ275766 7155	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T27	SJ277376 7188	Horse Chestnut <i>Aesculus hippocastanum</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T28	SJ275676 7149	Sycamore <i>Acer pseudoplatanus</i>	High	Unable to be climbed	N/A	No access			Precautionarily assessed as a Potential Roost
T29	SJ254286 8867	Oak sp. <i>Quercus sp.</i>	Moderate	20/09/2021	Moderate	28/06/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T30	SJ254486 8895	Dead tree	Moderate	20/09/2021	Moderate	28/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T31	SJ254296 8918	Oak sp. <i>Quercus sp.</i>	Moderate	20/09/2021	Low	Not Required	Not Required	Not Required	Low
T32	SJ254216 8936	Oak sp. <i>Quercus sp.</i>	Moderate	20/09/2021	Low	Not Required	Not Required	Not Required	Low
T33	SJ257956 7959	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T34	SJ257926 7961	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T35	SJ257786 7968	Oak sp. <i>Quercus sp.</i>	Moderate	18/05/2021	Low	Not Required	Not Required	Not Required	Low
T36	SJ257846 7977	Oak sp. <i>Quercus sp.</i>	Moderate	18/05/2021	High	No access		Not Required – fully searched during tree climb survey	Precautionarily assessed as a Potential Roost
T37	SJ257236 8092	Oak sp. <i>Quercus sp.</i>	Moderate	18/05/2021	Moderate	Not Required – fully searched during tree climb survey	No access	Not Required	Precautionarily assessed as a Potential Roost
T38	SJ329216 6989	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T39	SJ329196 6994	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T40	SJ326076 6952	Oak sp. <i>Quercus sp.</i>	High	18/08//2021	Low	Not Required	Not Required	Not Required	Low
T41	SJ326076 6956	Pedunculate oak <i>Quercus robur</i>	Moderate	18/08//2021	Moderate	14/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T42	SJ326586 6900	Oak sp. <i>Quercus sp.</i>	Moderate	05/08/2021	Moderate	14/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T43	SJ326076 6952	Pedunculate oak <i>Quercus robur</i>	High	18/08/2021	Low	Not Required	Not Required	Not Required	Low
T44	SJ452587 4517	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	07/06/2021	20/07/2021	Not Required	Likely absent - Moderate
T45	SJ333316 6522	Pedunculate oak <i>Quercus robur</i>	Moderate	04/08/2021	Moderate	16/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T46	SJ333446 6537	Pedunculate oak <i>Quercus robur</i>	Moderate	04/08/2021	Low	Not Required	Not Required	Not Required	Low
T47	SJ445067 3287	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	07/09/2021	11/05/2021	Not Required	Likely absent - Moderate
T48	SJ446047 3309	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T49	SJ446277 3329	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	07/09/2021	10/05/2021	16/08/2022	Potential Roost - Confirmed
T50	SJ325806 7255	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T52	SJ353966 7976	Common Beech <i>Fagus sylvatica</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T53	SJ353746 7992	Common Beech <i>Fagus sylvatica</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T54	SJ316246 7256	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T55	SJ316866 7310	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T56	SJ375466 9595	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T57	SJ375686 9596	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	24/05/2022	28/06/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T58	SJ375746 9597	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	25/05/2022	21/07/2022	Not Required	Likely absent - Moderate
T59	SJ375806 9599	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T60	SJ376016 9601	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T61	SJ445627 3273	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T62	SJ445617 3275	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T63	SJ445617 3280	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T64	SJ445547 3274	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T65	SJ445487 3276	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T66	SJ445317 3277	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T67	SJ445367 3276	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T68	SJ445077 3281	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	05/05/2022	14/07/2022	Not Required	Likely absent - Moderate
T69	SJ445267 4936	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T70	SJ445467 4136	Oak sp. <i>Quercus sp.</i>	Moderate	21/09/2021	High	10/05/2022	17/05/22	Not Required – fully searched during tree climb survey	Confirmed Roost
T71	SJ445797 3799	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T72	SJ445857 3788	Oak sp. <i>Quercus sp.</i>	Moderate	20/09/2021	Low	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T73	SJ445597 3790	Oak sp. <i>Quercus sp.</i>	High	Unable to be climbed	N/A	06/10/2021	04/05/2022	05/07/2022	Likely absent - High
T74	SJ445737 3754	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T75	SJ445327 3825	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T76	SJ445977 4079	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	21/06/2022	13/07/2022	Not Required	Likely absent - Moderate
T77	SJ445617 3784	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T81	SJ446337 3893	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	22/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T82	SJ446267 3763	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T84	SJ445787 4003	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	07/10/2021	04/05/2022	22/09/2022	Likely absent - High
T85	SJ446257 4031	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	21/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T86	SJ350396 7340	Sycamore <i>Acer pseudoplatanus</i>	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	SJ319306 7476	Oak sp. <i>Quercus sp.</i>	High	Unable to be climbed	N/A	06/08/2021	19/08/2021	07/06/2022	Likely absent - High
T89	SJ319006 7440	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T90	SJ318726 7451	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T91	SJ318846 7437	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	19/08/2021	07/06/2022	Not Required	Likely absent - Moderate
T92	SJ321296 7463	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T93	SJ321376 7420	Oak sp. <i>Quercus sp.</i>	Moderate	19/08/2021	Moderate	15/06/2022	Not Required – fully searched during tree climb survey	Not Required	Likely absent - Moderate
T94	SJ319116 7383	Oak sp. <i>Quercus sp.</i>	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	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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	SJ316896 7324	Pedunculate oak <i>Quercus robur</i>	Moderate	17/11/2021	Low	12/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T96	SJ317246 7302	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T97	SJ324996 7484	Poplar <i>Populus sp.</i>	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	SJ324856 7471	Lime <i>Tilias sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T99	SJ324296 7562	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	12/08/2021	Not Required	Not Required	Low
T100	SJ324376 7561	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	12/08/2021	Not Required	Not Required	Low
T101	SJ323366 7644	Oak sp. <i>Quercus sp</i>	Low	N/A	N/A	12/08/2021	Not Required	Not Required	Low
T103	SJ433077 1511	Oak sp. <i>Quercus sp.</i>	High	16/06/2021	Low	Not Required	Not Required	Not Required	Low
T104	SJ383217 0530	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T105	SJ383317 0536	Oak sp. <i>Quercus sp.</i>	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	SJ427807 1939	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T109	SJ429747 1998	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	11/05/2022	29/06/2022	Not Required	Likely absent - Moderate
T110	SJ429597 1985	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	11/05/2022	29/06/2022	Not Required	Likely absent - Moderate
T111	SJ429477 1970	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	11/05/2022	29/06/2022	17/08/2022	Confirmed Roost
T112	SJ428977 2781	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T115	SJ371636 9452	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T116	SJ422637 1200	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	08/06/2021	23/06/2021	Not Required	Likely absent - Moderate
T117	SJ422697 1209	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	08/06/2021	23/06/2021	Not Required	Likely absent - Moderate
T118	SJ422707 1224	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	08/06/2021	23/06/2021	Not Required	Likely absent - Moderate
T128	SJ295876 7307	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T129	SJ295846 7340	Pedunculate oak <i>Quercus robur</i>	Moderate	17/01/2021	Low	Not Required	Not Required	Not Required	Low
T131	SJ309326 6816	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T132	SJ312356 7131	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T133	SJ387157 1091	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T134	SJ386507 1096	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T135	SJ386907 1112	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T136	SJ387647 1052	Pedunculate oak <i>Quercus robur</i>	Moderate	10/05/2022	Negligible	Not Required	Not Required	Not Required	Negligible
T137	SJ386577 1071	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	04/08/2022	25/08/2022	Not Required	Likely absent - Moderate
T138	SJ387097 1098	Pedunculate oak <i>Quercus robur</i>	Moderate	10/05/2022	Low	Not Required	Not Required	Not Required	Low
T139	SJ388277 1022	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T140	SJ409107 1345	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T141	SJ409177 1333	Unknown	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T142	SJ409247 1326	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T143	SJ409427 1321	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T144	SJ402217 1143	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	23/06/2022	05/07/2022	Not Required	Likely absent - Moderate
T145	SJ404887 1197	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	23/06/2022	05/07/2022	Not Required	Likely absent - Moderate
T146	SJ411327 1409	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T147	SJ411407 1395	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	18/05/2022	07/07/2022	Not Required	Likely absent - Moderate
T148	SJ411417 1394	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	17/05/2022	06/07/2022	Not Required	Likely absent - Moderate
T149	SJ411447 1389	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	17/05/2022	06/07/2022	Not Required	Likely absent - Moderate
T150	SJ411527 1373	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T151	SJ411777 1337	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T152	SJ411777 1335	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	17/05/2022	06/07/2022	Not Required	Likely absent - Moderate
T153	SJ411847 1327	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T154	SJ409597 1321	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T155	SJ409487 1351	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T156	SJ409577 1354	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T157	SJ409657 1360	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T158	SJ350276 7322	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T159	SJ349946 7263	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	10/06/2021	15/07/2021	23/08/2021	Confirmed Roost
T160	SJ348986 7139	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T161	SJ348986 7139	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T162	SJ399937 1051	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T163	SJ399997 1053	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T164	SJ400017 1056	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	18/05/2022	07/07/2022	Not Required	Likely absent - Moderate
T165	SJ400067 1056	Ash <i>Fraxinus excelsior</i>	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, where required	Precautionarily assessed as a Potential Roost
T166	SJ396907 1028	Willow sp. <i>Salix sp.</i>	Moderate	Unable to be climbed	N/A	02/08/2021	18/05/2022	15/08/2022	Likely absent – Moderate
T167	SJ396667 1022	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	29/06/2021	03/08/2021	Not Required	Likely absent - Moderate
T168	SJ396607 1022	Oak sp. <i>Quercus sp.</i>	High	Unable to be climbed	N/A	02/08/2021	12/07/2022	04/08/2022	Likely absent - High
T169	SJ396397 1023	Oak sp. <i>Quercus sp.</i>	Moderate	20/07/2021	Moderate	02/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T170	SJ396307 1014	Oak sp. <i>Quercus sp.</i>	Moderate	20/07/2021	Moderate	02/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T171	SJ396087 0957	Oak sp. <i>Quercus sp.</i>	Moderate	20/07/2021	Moderate	03/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T172	SJ394597 0842	Dead Tree	Moderate	Unable to be climbed	N/A	03/08/2021	19/05/2022	Not Required	Likely absent - Moderate
T173	SJ394477 0845	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	03/08/2021	18/05/2022	Not Required	Likely absent - Moderate
T174	SJ394237 0860	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	03/08/2021	18/05/2022	Not Required	Likely absent - Moderate
T175	SJ394117 0866	Dead Tree	Moderate	Unable to be climbed	N/A	04/08/2021	19/05/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T176	SJ381216 9806	Pedunculate oak <i>Quercus robur</i>	Moderate	25/20/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T177	SJ381196 9816	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T178	SJ380716 9834	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T179	SJ380476 9849	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T180	SJ380406 9855	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T181	SJ380366 9857	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T182	SJ380326 9859	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T183	SJ380196 9853	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T184	SJ380956 9818	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T185	SJ379436 9677	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T186	SJ379396 9675	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T187	SJ379626 9689	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T188	SJ379126 9713	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T189	SJ378866 9753	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T190	SJ303046 7008	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	15/06/2022	29/07/2022	15/08/2022	Confirmed Roost
T191	SJ300326 6833	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T192	SJ382567 0599	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T193	SJ383247 0722	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	12/08/2021	23/09/2021	Not Required	Likely absent - Moderate
T194	SJ383287 0769	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T195	SJ382827 0794	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T196	SJ382717 0808	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T197	SJ382687 0812	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	19/05/2022	14/07/2022	Not Required	Likely absent - Moderate
T198	SJ464467 5312	Oak sp. <i>Quercus sp.</i>	High	Unable to be climbed	N/A	24/05/2021	26/07/2021	22/09/2021	Likely absent - High
T199	SJ464767 5311	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T200	SJ465367 5378	Oak sp. <i>Quercus sp.</i>	Moderate	15/06/2021	Moderate	26/07/2021	22/09/2021	Not Required - fully searched during tree climb survey	Potential Roost - Confirmed
T201	SJ465477 5386	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	24/05/2021	27/07/2021	Not Required	Likely absent - Moderate
T202	SJ465567 5395	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T203	SJ465737 5413	Dead Tree	Moderate	Unable to be climbed	N/A	25/05/2021	27/07/2021	Not Required	Likely absent - Moderate
T204	SJ465917 5383	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	14/06/2021	28/07/2021	Not Required	Likely absent - Moderate
T205	SJ465997 5378	Oak sp. <i>Quercus sp.</i>	Moderate	15/06/2021	Moderate	26/07/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T206	SJ466137 5369	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	25/05/2021	28/07/2021	Not Required	Likely absent - Moderate
T207	SJ463687 5060	Oak sp. <i>Quercus sp.</i>	Moderate	15/06/2021	Low	Not Required	Not Required	Not Required	Low
T209	SJ356816 8507	Poplar sp. <i>Populus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T210	SJ356906 8513	Poplar sp. <i>Populus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T211	SJ356936 8516	Poplar sp. <i>Populus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T212	SJ357056 8528	Poplar sp. <i>Populus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T213	SJ357146 8534	Poplar sp. <i>Populus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T214	SJ359446 8918	Willow sp. <i>Salix sp.</i>	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	SJ359626 8910	Willow sp. <i>Salix sp.</i>	Moderate	Unable to be climbed	N/A	04/08/2021	08/06/2022	Not Required	N/A – Tree has fallen down
T216	SJ359746 8903	Willow sp. <i>Salix sp.</i>	Moderate	18/10/2021	Low	04/08/2021	Not Required	Not Required	Low
T217	SJ360136 8891	Willow sp. <i>Salix sp.</i>	Moderate	18/10/2021	Low	04/08/2021	Not Required	Not Required	Low
T218	SJ360356 8883	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	04/08/2021	Not Required	Not Required	Low
T219	SJ360766 8868	Willow sp. <i>Salix sp.</i>	High	Unable to be climbed	N/A	04/08/2021	10/05/2022	03/08/2022	Likely absent - High
T220	SJ360816 8866	Willow sp. <i>Salix sp.</i>	Moderate	Unable to be climbed	N/A	04/08/2021	03/08/2022	22/08/2022	Confirmed Roost
T221	SJ360866 8871	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T222	SJ360966 8861	Willow sp. <i>Salix sp.</i>	Moderate	Unable to be climbed	N/A	08/06/2022	19/07/2022	Not Required	Likely absent - Moderate
T223	SJ391817 0826	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	07/07/2022	21/07/2022	Not Required	Likely absent - Moderate
T225	SJ368886 9515	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	03/08/2022	22/08/2022	Not Required	Likely absent - Moderate
T226	SJ368876 9517	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T227	SJ369226 9493	Ash <i>Fraxinus excelsior</i>	Moderate	23/09/2021	Low	Not Required	Not Required	Not Required	Low
T228	SJ369026 9443	Pedunculate oak <i>Quercus robur</i>	Moderate	23/09/2021	Moderate	08/06/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T229	SJ370016 9421	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T230	SJ370906 9515	Pedunculate oak <i>Quercus robur</i>	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	SJ373796 9465	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T232	SJ373806 9545	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T233	SJ373346 9550	Dead tree	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T234	SJ373256 9555	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	29/09/2021	13/07/2022	04/08/2022	Confirmed Roost
T235	SJ373056 9554	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T236	SJ372536 9554	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T237	SJ372296 9556	Pedunculate oak <i>Quercus robur</i>	Moderate	22/09/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T238	SJ372336 9460	Pedunculate oak <i>Quercus robur</i>	High	Unable to be climbed	N/A	13/07/2022	02/08/2022	23/08/2022	Confirmed Roost
T239	SJ264716 7649	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T240	SJ263906 7716	Oak sp. <i>Quercus sp.</i>	Moderate	18/10/2021	Low	11/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T241	SJ263816 7714	Oak sp. <i>Quercus sp.</i>	Moderate	18/10/2021	Low	11/08/2021 – downgraded to low following survey after detailed inspection of features	Not Required	Not Required	Low
T242	SJ264886 7765	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T245	SJ454237 4425	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T247	SJ457417 4619	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T248	SJ456717 4584	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	30/06/2021	19/07/2021	Not Required	Likely absent - Moderate
T249	SJ366936 9328	Ash <i>Fraxinus excelsior</i>	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T250	SJ367306 9336	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T251	SJ356106 7377	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T252	SJ440467 3034	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T253	SJ440427 3054	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T254	SJ440377 3069	Willow sp. <i>Salix sp.</i>	High	Unable to be climbed	N/A	10/05/2022	04/08/2022	24/08/2022	Likely absent - High
T255	SJ440417 3076	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T257	SJ353846 7999.	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T258	SJ354046 7985	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T261	SJ412377 1291	Oak sp. <i>Quercus sp.</i>	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	SJ413387 1479	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T265	SJ440857 2928	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	10/05/2022	No access	Not Required	Precautionarily assessed as a Potential Roost
T267	SJ461487 4651	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	13/08/2021	28/09/2021	Not Required	Likely absent - Moderate
T269	SJ354266 7969	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T271	SJ265326 7710	Oak sp. <i>Quercus sp.</i>	Moderate	07/02/2022	Low	Not Required	Not Required	Not Required	Low
T272	SJ265216 7611	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	16/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T273	SJ265016 7621	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	16/06/2022	12/07/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T274	SJ266816 7560	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	16/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T275	SJ440867 2897	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	10/08/2021	11/05/2022	Not Required	Likely absent - Moderate
T276	SJ440877 2922	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	10/08/2021	12/05/2022	Not Required	Likely absent - Moderate
T277	SJ346796 6968	Sycamore <i>Acer pseudoplatanus</i>	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
T278	SJ346616 6969	Willow sp. <i>Salix sp.</i>	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	SJ346536 6971	Willow sp. <i>Salix sp.</i>	Moderate	20/10/2021	Moderate	09/08/2021	13/07/2022	Not Required	Likely absent - Moderate
T280	SJ346616 6982	Dead Tree	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T281	SJ349306 6719	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T282	SJ350946 6604	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T283	SJ351046 6596	Sycamore <i>Acer pseudoplatanus</i>	High	Unable to be climbed	N/A	13/07/2022	04/08/2022	24/08/2022	Potential roost - Confirmed
T284	SJ351156 6588	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	12/07/2022	25/08/2022	Not Required	Likely absent - Moderate
T285	SJ298716 7047	Oak sp. <i>Quercus sp.</i>	Moderate	05/08/2021	Low	Not Required	Not Required	Not Required	Low
T286	SJ298196 7207	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	14/06/2022	13/07/2022	Not Required	Likely absent - Moderate
T287	SJ251337 0417	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T288	SJ252597 0138	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	23/08/2021	30/06/2022	Not Required	Likely absent - Moderate
T289	SJ251547 0396	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T290	SJ252327 0066	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T291	SJ252747 0131	Beech <i>Fagus sylvatica</i>	Moderate	22/07/2021	Low	Not Required	Not Required	Not Required	Low
T292	SJ336716 6315	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	22/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T293	SJ339006 6310	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	22/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T294	SJ336966 6264	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T295	SJ381487 0320	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	11/08/2021	23/09/2021	Not Required	Likely absent - Moderate
T296	SJ382027 0373	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	11/08/2021	29/09/2021	Not Required	Likely absent - Moderate
T297	SJ381437 0498	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	11/08/2021	19/05/2022	Not Required	Likely absent - Moderate
T298	SJ413617 1036	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T300	SJ414157 1084	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T301	SJ414207 1085	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T302	SJ414327 1093	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	13/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T303	SJ414397 1100	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T304	SJ414707 1126	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	13/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T305	SJ414827 1141	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T306	SJ414957 1154	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T307	SJ415057 1162	Pedunculate oak <i>Quercus robur</i>	Moderate	06/05/2022	Low	Not Required	Not Required	Not Required	Low
T308	SJ415127 1167	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T309	SJ415237 1175	Pedunculate oak <i>Quercus robur</i>	Moderate	06/05/2022	Moderate	14/06/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T310	SJ417417 1032	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T311	SJ415977 1035	Sycamore <i>Acer pseudoplatanus</i>	Moderate	04/05/2022	Low	Not Required	Not Required	Not Required	Low
T315	SJ419707 1032	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T316	SJ419587 1045	Pedunculate oak <i>Quercus robur</i>	Moderate	05/05/2022	Low	Not Required	Not Required	Not Required	Low
T317	SJ419637 1057	Sycamore <i>Acer pseudoplatanus</i>	Moderate	N/A	N/A	15/06/2022	14/07/2022	Not Required	Likely absent - Moderate
T318	SJ419447 1083	Sycamore <i>Acer pseudoplatanus</i>	High	05/05/2022	High	13/07/2022	02/08/2022	23/08/2022	Likely absent - High
T319	SJ419347 1100	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T320	SJ419197 1122	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T321	SJ418967 1132	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	13/07/2022	04/08/2022	23/08/2022	Confirmed Roost
T322	SJ419017 1137	Sycamore <i>Acer pseudoplatanus</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T324	SJ443387 3221	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	10/05/2022	14/07/2022	17/08/2022	Likely absent - High

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T325	SJ430117 2033	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	10/08/2021	23/06/2022	13/07/2022	Potential Roost - Confirmed
T326	SJ430297 2052	Ash <i>Fraxinus excelsior</i>	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	SJ430427 2065	Ash <i>Fraxinus excelsior</i>	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
T328	SJ430577 2074	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T329	SJ430807 2091	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	10/08/2021	12/05/2022	Not Required	Likely absent - Moderate
T330	SJ430917 2101	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T331	SJ431337 2147	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	10/08/2021	11/05/2022	Not Required	Likely absent - Moderate
T332	SJ431567 2166	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	10/08/2021	10/05/2022	Not Required	Likely absent - Moderate
T334	SJ353846 7999	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T335	SJ354046 7985	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T336	SJ253036 9100	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	08/09/2021	29/06/2022	Not Required	Likely absent - Moderate
T337	SJ253116 9057	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T338	SJ400587 1149	Oak sp. <i>Quercus sp.</i>	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	SJ402467 1210	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	14/07/2021	12/08/2021	Not Required	Likely absent - Moderate
T340	SJ402307 1177	Ash <i>Fraxinus excelsior</i>	High	Unable to be climbed	N/A	14/07/2021	12/08/2021	21/09/2021	Likely absent - High
T341	SJ460877 4696	Pedunculate oak <i>Quercus robur</i>	High	18/08/2021	Low	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T343	SJ459257 4682	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T344	SJ458977 4634	Oak sp. <i>Quercus sp.</i>	Moderate	15/06/2021	Low	Not Required	Not Required	Not Required	Low
T345	SJ458727 4586	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	09/08/2021	29/09/2021	Not Required	Likely absent - Moderate
T346	SJ457247 4549	Oak sp. <i>Quercus sp.</i>	Moderate	15/06/2021	Low	Not Required	Not Required	Not Required	Low
T349	SJ453887 4643	Cherry sp. <i>prunus sp.</i>	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	SJ325896 7048	Oak sp. <i>Quercus sp.</i>	Moderate	10/02/2022	Moderate	09/06/2022	06/07/2022	Not Required	Likely absent - Moderate
T351	SJ380227 0212	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T352	SJ381197 0210	Pedunculate oak <i>Quercus robur</i>	High	10/05/2022	Low	Not Required	Not Required	Not Required	Low
T355	SJ445737 3538	Sycamore <i>Acer pseudoplatanus</i>	Moderate	16/06/2021	Moderate	07/09/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T356	SJ447247 3618	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T357	SJ447127 3630	Oak sp. <i>Quercus sp.</i>	Moderate	16/06/2021	Low	Not Required	Not Required	Not Required	Low
T358	SJ446977 3645	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	30/06/2021	07/09/2021	Not Required	Likely absent - Moderate
T359	SJ445537 3671	Oak sp. <i>Quercus sp.</i>	Moderate	16/06/2021	Moderate	07/09/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T360	SJ330396 6753	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T361	SJ377066 9615	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T362	SJ376746 9609	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T363	SJ376556 9606	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T364	SJ377436 9576	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	07/06/2022	13/07/2022	Not Required	Likely absent - Moderate
T365	SJ374146 9565	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	07/06/2022	12/07/2022	16/08/2022	Confirmed Roost
T366	SJ304596 6948	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T367	SJ301506 6969	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T368	SJ423687 1261	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T369	SJ424987 1280	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T370	SJ425447 1277	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T371	SJ425517 1201	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	10/05/2022	19/07/2022	22/09/2022	Confirmed Roost
T373	SJ295196 7363	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T374	SJ295106 7369	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T375	SJ295026 7376	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T376	SJ291506 7207	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T377	SJ293556 7158	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	No access		Not Required	Precautionarily assessed as a Potential Roost
T378	SJ306606 6748	Alder <i>Alnus glutinosa</i>	Moderate	Unable to be climbed	N/A	22/06/2022	12/07/2022	Not Required	Likely absent - Moderate
T379	SJ288006 6502	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T380	SJ288396 6465	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T381	SJ286126 6518	Oak sp. <i>Quercus sp.</i>	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T382	SJ284386 6544	Dead tree	Moderate	Unable to be climbed	N/A	03/09/2021	16/06/2022	N/A	Likely absent - Moderate
T383	SJ284656 6553	Dead tree	High	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T384	SJ284626 6571	Oak sp. <i>Quercus sp.</i>	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T385	SJ284246 6644	Oak sp. <i>Quercus sp.</i>	Moderate	21/07/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T386	SJ283606 6738	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T387	SJ282786 6712	Oak sp. <i>Quercus sp.</i>	High	21/07/2021	High	17/08/2021	22/09/2021	Not required - fully searched during tree climb survey	Likely absent - High
T388	SJ282846 6700	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T389	SJ281216 6873	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T390	SJ281096 6867	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T391	SJ281096 6864	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T392	SJ281066 6861	Alder <i>Alnus glutinosa</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T393	SJ280706 6800	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	16/06/2022	29/07/2022	Not Required	Likely absent - Moderate
T398	SJ286326 6483	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T399	SJ286426 6486	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T400	SJ286456 6426	Hawthorn with Elder tree <i>Crataegus sp.</i> , / <i>Sambucus nigra</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T401	SJ286226 6406	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	09/06/2022	19/07/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T402	SJ286006 6447	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	14/06/2022	19/07/2022	Not Required	Likely absent - Moderate
T403	SJ285246 6459	Pedunculate oak <i>Quercus robur</i>	Moderate	Unable to be climbed	N/A	28/07/2022	20/09/2022	Not Required	Likely absent - Moderate
T404	SJ285496 6459	Pedunculate oak <i>Quercus robur</i>	Moderate	24/05/2022	Low	Not Required	Not Required	Not Required	Low
T406	SJ256616 8532	Oak sp. <i>Quercus sp.</i>	Moderate	17/01/2021	Low	Not Required	Not Required	Not Required	Low
T407	SJ255946 8629	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T408	SJ255486 8635	Oak sp. <i>Quercus sp.</i>	Moderate	25/10/2021	Low	Not Required	Not Required	Not Required	Low
T409	SJ255716 8533	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T410	SJ255556 8550	Oak sp. <i>Quercus sp.</i>	Moderate	25/10/2021	Low	Not Required	Not Required	Not Required	Low
T411	SJ255436 8561	Pedunculate oak <i>Quercus robur</i>	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	SJ255356 8571	Oak sp. <i>Quercus sp.</i>	Moderate	25/20/2021	Low	Not Required	Not Required	Not Required	Low
T414	SJ256646 8345	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T415	SJ272936 7412	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T416	SJ256996 8270	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T417	SJ267486 7585	Oak sp. <i>Quercus sp.</i>	Moderate	17/06/2021	Moderate	24/08/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T418	SJ267786 7603	Oak sp. <i>Quercus sp.</i>	Moderate	17/06/2021	Negligible	Not Required	Not Required	Not Required	Negligible

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T419	SJ263696 7724	Dead tree	High	No access	N/A	No access			Precautionarily assessed as a Potential Roost
T420	SJ263276 7725	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T421	SJ263146 7706	Ash <i>Fraxinus excelsior</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T422	SJ263416 7694	Dead Tree	High	No access	N/A	No access			Precautionarily assessed as a Potential Roost
T423	SJ263306 7633	Ash <i>Fraxinus excelsior</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T424	SJ263416 7648	Alder <i>Alnus glutinosa</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T425	SJ263756 7723	Dead tree	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T426	SJ263266 7697	Oak sp. <i>Quercus sp.</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T427	SJ263296 7648	Ash <i>Fraxinus excelsior</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T428	SJ263586 7657	Silver Birch <i>Betula pendula</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T429	SJ263156 7684	Pedunculate oak <i>Quercus robur</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T430	SJ263096 7716	Pedunculate oak <i>Quercus robur</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T431	SJ263096 7718	Pedunculate oak <i>Quercus robur</i>	Moderate	No access	N/A	No access		Not required	Precautionarily assessed as a Potential Roost
T432	SJ277376 7188	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T433	SJ278706 6883	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T434	SJ278146 6923	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	21/06/2022	05/07/2022	Not Required	Likely absent - Moderate

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T435	SJ278406 6909	Willow sp. <i>Salix sp.</i>	Moderate	Unable to be climbed	N/A	21/06/2022	No Access	Not Required	Precautionarily assessed as a Potential Roost
T436	SJ449147 3372	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T438	SJ448107 3491	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	15/06/2021	15/07/2021	Not Required	Likely absent - Moderate
T440	SJ253566 9848	Sycamore <i>Acer pseudoplatanus</i>	Moderate	03/08/2021	Low	Not Required	Not Required	Not Required	Low
T441	SJ253506 9852	Dead Tree	Moderate	21/09/2021	Low	Not Required	Not Required	Not Required	Low
T443	SJ256346 8420	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T444	SJ256296 8448	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T445	SJ256166 8468	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T446	SJ256316 8507	Pedunculate oak <i>Quercus robur</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T447	SJ433127 2310	Unknown	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T448	SJ427777 1644	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T449	SJ427387 1626	Ash <i>Fraxinus excelsior</i>	High	19/08/2021	High	12/05/2022	27/07/2022	Not Required - fully searched during tree climb survey	Likely absent - High
T450	SJ427197 1620	Oak sp. <i>Quercus sp.</i>	Moderate	19/08/2021	Low	Not Required	Not Required	Not Required	Low
T451	SJ426447 1386	Oak sp. <i>Quercus sp.</i>	Moderate	19/08/2021	Moderate	12/05/2022	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T452	SJ257116 8124	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	30/06/2021	15/07/2021	Not Required	Likely absent - Moderate
T453	SJ382117 0360	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	24/05/2022	20/07/2022	Not Required	Likely absent - Moderate
T454	SJ381897 0342	Oak sp. <i>Quercus sp.</i>	Moderate	Unable to be climbed	N/A	24/05/2022	20/07/2022	Not Required	Likely absent - Moderate
T455	SJ381677 0324	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Tree ID or Tag No.	Grid reference	Tree Species	Suitability Following PRA	Tree climb Survey Undertaken (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
T456	SJ269676 7426	Oak sp. <i>Quercus sp.</i>	Moderate	19/08/2021	Moderate	07/10/2021	Not Required - fully searched during tree climb survey	Not Required	Likely absent - Moderate
T457	SJ269406 7413	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T458	SJ269176 7425	Willow sp. <i>Salix sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T459	SJ269816 7447	Ash <i>Fraxinus excelsior</i>	Moderate	19/08/2021	Negligible	Not Required	Not Required	Not Required	Negligible
T460	SJ269896 7453	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T461	SJ270536 7438	Dead tree	Moderate	Unable to be climbed	N/A	08/09/2021	22/06/2022	Not Required	Likely absent - Moderate
T462	SJ270156 7442	Ash <i>Fraxinus excelsior</i>	Moderate	Unable to be climbed	N/A	08/09/2021	15/06/2022	Not Required	Likely absent - Moderate
T464	SJ307916 6911	Sycamore <i>Acer pseudoplatanus</i>	Moderate	Unable to be climbed	N/A	15/06/2022	29/07/2022	Not Required	Likely absent - Moderate
T475	SJ252537 1101	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low
T480	SJ446237 3727	Oak sp. <i>Quercus sp.</i>	Low	N/A	N/A	Not Required	Not Required	Not Required	Low

Annex E

CONFIRMED BAT ROOSTS

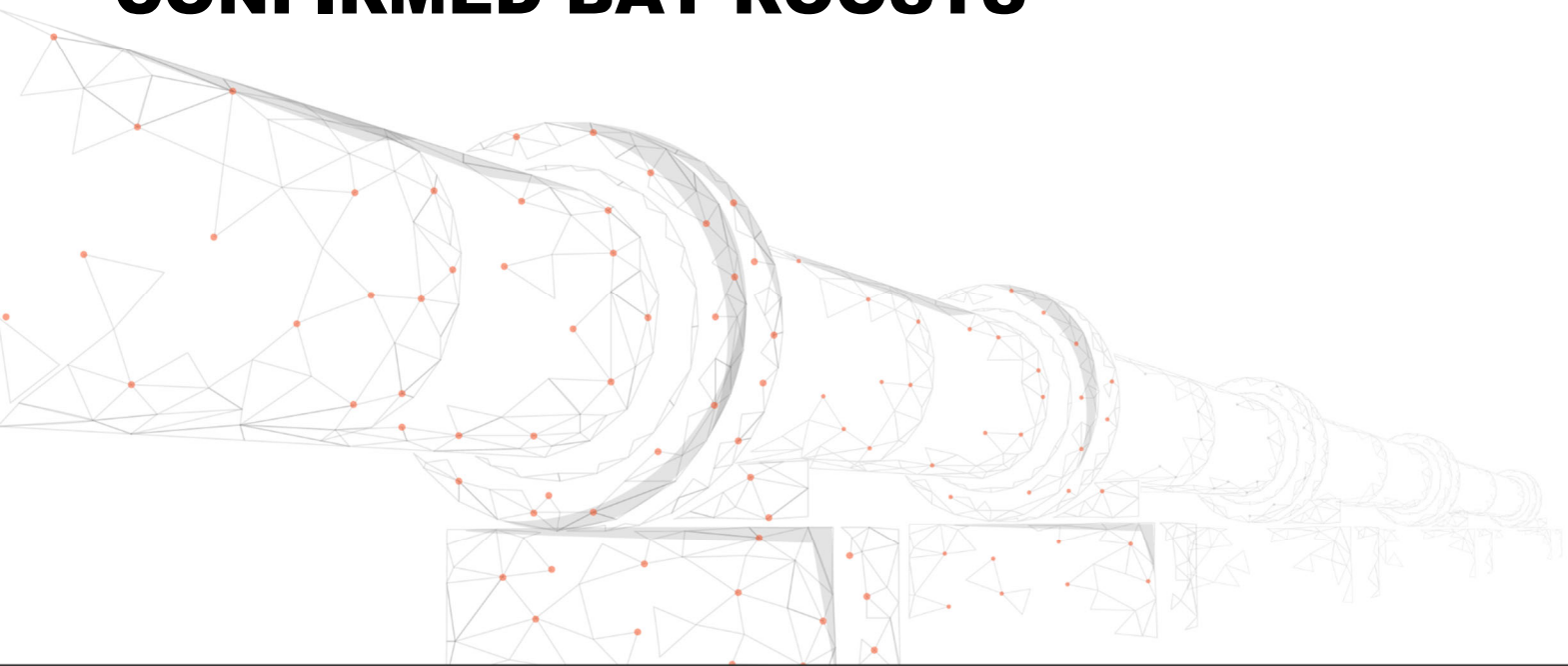


Table 7 - Confirmed Bat Roosts

Method	Feature 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 fascia 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/ 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 <i>Myotis</i> 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

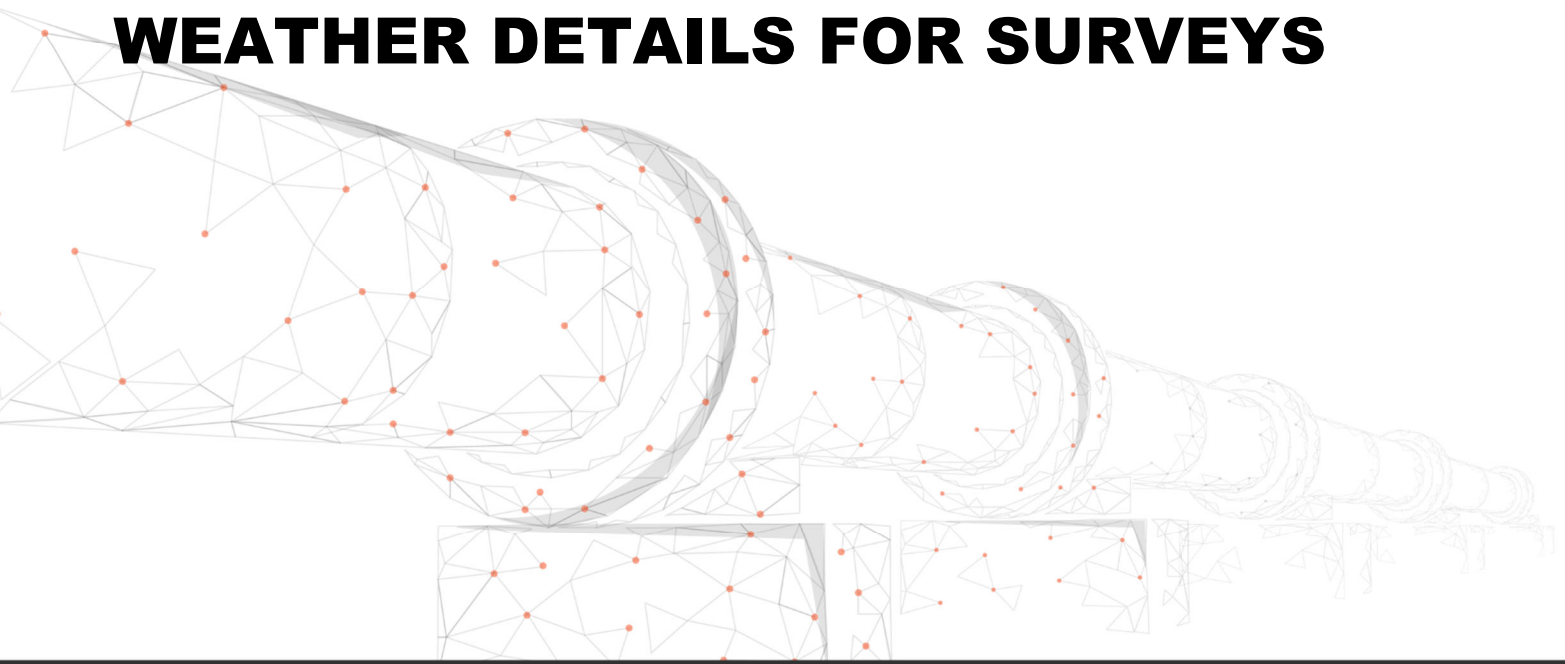


Table 8 - Structure Dusk Emergence and Dawn Re-entry Survey Weather Details

Structure Reference	Survey No.	Dusk/Dawn	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	13 11	2 2	2 3	0 0
B68	1 – 24/05/2022	Dusk	14 11	1 0	2 1	0 0
B79	1 – 18/08/2022	Dawn	15 15	2 2	7 8	0 0
B82	1 – 26/05/2022	Dawn	11 12	1 1	6 7	0 0
B97	1 – 26/05/2022	Dusk	15 12	2 1	2 4	0 0
	2 – 09/06/2022	Dawn	15 15	4 4	5 5	0 0
	3 – 23/06/2022	Dawn	12 10	0 0	0 0	0 0
B113	1 – 18/08/2021	Dusk	16 14	1 1	8 8	0 0
	2 – 25/05/2022	Dawn	11 11	3 2	8 8	0 0
	3 – 08/06/2022	Dusk	15 15	2 2	2 4	0 0
B133	1 – 25/05/2022	Dusk	15 12	2 1	3 3	0 0
	2 – 09/06/2022	Dawn	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	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 used?
BB_T875	1 – 04/05/2022	Dusk	11 10	1 1	8 8	0 0	No
	2 – 17/05/2022	Dawn	13 13	2 2	7 6	0 0	No
BB_T876	1 – 19/05/2022	Dawn	10 10	2 1	8 0	0 0	No
	2 – 07/06/2022	Dawn	13 13	0 0	8 6	0 0	No
	3 – 05/07/2022	Dusk	16 16	1 2	8 8	0 0	No
T1	1 – 30/06/2022	Dusk	14 12	2 2	4 6	0 0	No
	2 – 29/07/2022	Dawn	15 15	0 0	8 8	0 1	No
T2	1 – 30/06/2022	Dusk	14 13	3 1	7 3	0 0	No
	2 – 19/07/2022	Dawn	20 22	0 1	5 4	0 0	No
T3	1 – 30/06/2021	Dusk	14 13	3 1	7 3	0 0	No
T4	1 – 30/06/2022	Dawn	12 12	1 1	8 7	1 0	No
	2 – 19/07/2022	Dusk	26 22	0 3	1 8	0 0	No
T6	1 – 02/09/2021	Dusk	17 15	1 1	1 1	0 0	No
	2 – 28/06/2022	Dawn	13 13	2 2	8 6	0 0	No
T8	1 – 02/09/2021	Dusk	18 15	1 1	1 1	0 0	No
	2 – 28/06/2022	Dawn	13 13	2 3	8 7	0 0	No
T9	1 – 03/09/2021	Dawn	14 14	2 3	0 1	0 0	Yes
	2 – 29/06/2022	Dusk	16 14	2 2	6 8	0 1	No
T29	1 – 28/06/2022	Dusk	15 14	2 1	8 8	1 0	No
T30	1 – 28/06/2022	Dusk	15 14	3 3	8 8	0 1	No
T41	1 – 14/06/2022	Dusk	15 13	1 1	1 1	0 0	No
T42	1 – 14/06/2022	Dusk	15 12	0 0	0 0	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T44	1 – 07/06/2021	Dusk	16 15	0 0	1 2	0 0	No
	2 – 20/07/2021	Dawn	17 17	0 0	1 4	0 0	No
T45	1 – 16/06/2022	Dusk	17 15	2 2	6 6	0 0	No
T47	1 – 07/09/2021	Dusk	26 22	0 0	0 0	0 0	No
	2 – 11/05/2022	Dawn	12 12	3 3	7 8	0 1	No
T49	1 – 07/09/2021	Dusk	26 22	1 1	0 0	0 0	No
	2 – 10/05/2022	Dawn	13 12	1 1	7 7	0 0	No
	3 – 16/08/2022	Dusk	19 17	1 2	7 7	0 0	No
T57	1 – 24/05/2022	Dawn	10 10	2 2	6 6	0 0	No
	2 – 28/06/2022	Dusk	13 14	2 2	8 8	1 1	No
T58	1 – 25/05/2022	Dusk	14 13	1 1	2 2	0 0	No
	2 – 21/07/2022	Dawn	16 15	3 3	6 7	0 0	No
T68	1 – 05/05/2022	Dusk	15 13	2 5	7 7	0 0	No
	2 – 14/07/2022	Dawn	12 13	2 2	5 7	0 0	No
T70	10/05/2022	Climb as visit	N/A	N/A	N/A	N/A	N/A
	17/05/22	Dawn	12 11	1 1	1 1	0 0	No
T73	06/10/2021	Dusk	14 14	1 1	8 8	1 0	Yes
	04/05/2022	Dusk	12 11	3 4	8 8	0 0	No
	05/07/2022	Dawn	14 13	2 1	7 2	0 0	No
T76	21/06/2022	Dusk	17 15	4 3	0 0	0 0	No
	13/07/2022	Dawn	17 16	3 3	7 7	0 0	No
T81	22/06/2022	Dusk	20 16	2 1	1 0	0 0	No
	14/07/2022	Dawn	12 13	1 2	7 7	0 0	No
T84	07/10/2021	Dawn	15 14	1 1	7 5	0 0	Yes

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
	04/05/2022	Dusk	12 11	2 2	8 8	0 0	No
	22/09/2022	Dawn	12 12	2 3	7 5	0 0	No
T85	21/06/2022	Dusk	18 15	4 3	0 0	0 0	No
	12/07/2022	Dawn	20 19	2 2	8 8	0 0	No
T87	1 – 16/06/2021	Dusk	18 14	5 1	8 8	0 0	No
	2 – 21/07/2021	Dawn	14 15	0 0	0 0	0 0	No
	3 – 23/09/2021	Dusk	17 15	3 1	4 3	0 0	Yes
T88	1 – 06/08/2021	Dusk	17 12	4 4	5 6	0 0	No
	2 – 19/08/2021	Dusk	17 15	1 1	6 7	0 0	No
	3 – 07/06/2022	Dawn	11 12	1 1	8 8	0 0	No
T91	1 – 19/08/2021	Dusk	17 15	1 1	6 7	0 0	No
	2 – 07/06/2022	Dawn	12 12	1 1	8 7	0 0	No
T93	1 – 15/06/2022	Dusk	15 13	2 1	1 1	0 0	No
T94	1 – 19/08/2021	Dusk	17 15	1 1	6 7	0 0	No
	2 – 14/06/2022	Dawn	9 8	2 1	3 3	0 0	No
	3 – 06/07/2022	Dusk	18 17	4 4	8 8	0 0	No
T97	1 – 12/08/2021	Dusk	18 17	2 3	6 8	0 0	No
T99	1 - 12/08/2021	Dusk	18 17	2 3	6 8	0 0	No
T100	1 - 12/08/2021	Dusk	18 17	2 3	6 8	0 0	No
T101	1 - 12/08/2021	Dusk	18 17	2 3	6 8	0 0	No
T102	1 – 16/06/2021	Dawn	14 11	0 0	1 6	0 0	No
	2 – 21/07/2021	Dusk	23 20	1 1	0 0	0 0	No
	3 – 17/08/2021	Dusk	16 16	3 4	8 8	0 2	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T105	1 – 05/10/2021	Dusk	13 12	6 6	2 4	0 0	No
T109	1 – 11/05/2022	Dusk	12 11	0 0	4 3	0 0	No
	2 – 29/06/2022	Dawn	13 13	1 1	8 9	1 1	No
T110	1 – 11/05/2022	Dusk	12 12	5 5	2 3	0 0	No
	2 – 29/06/2022	Dawn	13 13	3 2	7 7	0 0	No
T111	1 – 11/05/2022	Dusk	13 11	1 1	2 1	0 0	No
	2 – 29/06/202	Dawn	14 13	0 0	7 8	1 2	No
	3 – 17/08/2022	Dawn	15 15	2 2	8 8	1 1	No
T116	1 – 08/06/2021	Dusk	22 15	1 1	2 1	0 0	No
	2 – 23/06/2021	Dawn	9 7	1 1	0 0	0 0	No
T117	1 – 08/06/2021	Dusk	18 16	1 1	0 0	0 0	No
	2 – 23/06/2021	Dawn	9 10	1 1	5 5	0 0	No
T118	1 – 08/06/2021	Dusk	16 12	1 1	0 0	0 0	No
	2 – 23/06/2021	Dawn	8 8	0 0	0 0	0 0	No
T137	1 – 04/08/2022	Dawn	15 15	2 3	7 7	0 0	No
	2 – 25/08/2022	Dusk	17 15	2 2	3 1	0 0	No
T144	1 – 23/06/2022	Dawn	10 11	2 1	0 0	0 0	No
	2 – 05/07/2022	Dusk	16 16	0 0	7 8	0 0	No
T145	1 – 23/06/2022	Dawn	12 11	1 1	1 0	0 0	No
	2 – 05/07/2022	Dusk	16 16	1 1	7 8	0 0	No
T147	1 – 18/05/2022	Dusk	14 13	4 4	7 7	1 0	No
	2 – 07/07/2022	Dawn	14 14	4 4	8 8	0 0	No
T148	1 – 17/05/2022	Dusk	15 13	3 1	5 1	1 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
	2 – 06/07/2022	Dawn	16 16	1 2	8 8	0 0	No
T149	1 – 17/05/2022	Dusk	15 13	3 4	5 4	1 0	No
	2 – 06/07/2022	Dawn	16 15	2 4	7 8	0 0	No
T152	1 – 17/05/2022	Dusk	17 14	4 2	5 4	0 0	No
	2 – 06/07/2022	Dawn	16 15	4 4	8 8	0 0	No
T159	1 – 10/06/2021	Dawn	18 17	0 1	7 7	0 0	No
	2 – 15/07/2021	Dusk	20 13	1 1	0 0	0 0	No
	3 – 23/08/2021	Dusk	17 18	3 2	4 4	0 0	No
T164	1 - 18/05/2022	Dusk	14 13	4 3	8 4	0 0	No
	2 - 07/07/2022	Dawn	15 14	4 3	8 8	1 0	No
T165	1 - 18/05/2022	Dusk	16 13	3 4	8 7	1 0	No
	2 - 07/07/2022	Dawn	14 14	3 3	8 8	1 0	No
T166	1 - 02/08/2021	Dusk	13 13	2 2	8 8	0 0	No
	2 – 18/05/2022	Dawn	11 10	1 1	2 1	0 0	No
	3 – 15/08/2022	Dusk	19 18	1 1	7 8	1 0	No
T167	1 – 29/06/21	Dusk	17 16	1 1	6 8	0 0	No
	2 – 03/08/2021	Dawn	10 8	1 1	8 8	0 0	No
T168	1 - 02/08/2021	Dusk	14 13	2 2	8 8	0 0	No
	2 – 12/07/2022	Dusk	22 20	2 1	6 6	0 0	No
	3 – 04/08/2022	Dawn	16 15	1 1	7 3	0 0	No
T169	1 - 02/08/2021	Dusk	14 13	2 2	8 8	0 0	No
T170	1 - 02/08/2021	Dusk	14 13	2 2	8 8	0 0	No
T171	1 - 03/08/2021	Dusk	17 16	2 2	3 6	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T172	1 - 03/08/2021	Dusk	17 16	2 2	3 6	0 0	No
	2 – 19/05/2022	Dawn	10 9	1 1	5 4	0 0	No
T173	1 - 03/08/2021	Dusk	17 16	2 2	3 6	0 0	No
	2 – 18/05/2022	Dawn	11 10	1 1	0 1	0 0	No
T174	1 - 03/08/2021	Dusk	17 16	2 2	3 6	0 0	No
	2 – 18/05/2022	Dawn	11 10	1 1	0 1	0 0	No
T175	1 - 04/08/2021	Dawn	11 11	1 1	3 2	0 0	No
	2 – 19/05/2022	Dusk	15 13	1 1	7 7	0 0	No
T190	1 – 15/06/2022	Dusk	15 13	2 2	1 1	0 0	No
	2 – 29/07/2022	Dawn	15 14	1 1	8 8	0 0	No
	3 – 15/08/2022	Dusk	18 17	1 0	7 7	1 0	No
T193	1 – 12/08/2021	Dusk	18 18	3 3	7 8	0 0	No
	2 – 23/09/2021	Dawn	17 17	0 0	8 8	0 1	Yes
T197	1 – 19/05/2022	Dawn	10 9	3 2	5 3	0 0	No
	2 – 14/07/2022	Dusk	16 14	2 2	3 1	0 0	No
T198	1 – 24/05/2021	Dusk	11 10	2 1	8 8	0 0	No
	2 – 26/07/2021	Dusk	18 17	0 0	3 3	0 0	No
	3 – 22/09/2021	Dawn	10 9	1 1	4 5	0 0	No
T200	1 – 26/07/2021	Dusk	17 16	1 1	1 1	0 0	No
	2 – 22/09/2021	Dawn	11 9	1 1	1 1	0 0	Yes
T201	1 – 24/05/2021	Dusk	11 11	3 2	4 7	0 0	No
	2 – 27/07/2021	Dawn	16 15	0 0	8 8	0 0	No
T203	1 – 25/05/2021	Dusk	11 11	2 1	8 7	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
	2 – 27/07/2021	Dawn	15 15	1 1	7 1	0 0	No
T204	1 – 14/06/2021	Dusk	15 13	0 0	0 0	0 0	No
	2 – 28/07/2021	Dawn	20 18	4 2	8 8	1 0	No
T205	1 – 26/07/2021	Dusk	20 17	2 3	6 7	0 0	No
T206	1 – 25/05/2021	Dusk	13 13	4 4	8 8	0 0	No
	2 – 28/07/2021	Dawn	16 15	3 2	8 8	1 0	No
T214	1 – 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
T215	1 – 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
	2 – 08/06/2022	Dawn	14 14	2 1	7 6	0 0	No
T216	1 - 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
T217	1 – 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
T218	1 – 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
T219	1 – 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
	2 – 10/05/2022	Climb as visit	N/A	N/A	N/A	N/A	N/A
	3 – 03/08/2022	Dawn	18 17	3 2	5 4	0 0	No
T220	1 – 04/08/2021	Dusk	18 17	1 1	6 7	0 0	No
	2 – 03/08/2022	Dawn	18 17	3 2	3 4	0 0	No
	3 – 22/08/2022	Dusk	20 17	0 0	5 7	0 0	No
T222	1 – 08/06/2022	Dusk	15 14	1 1	2 3	0 0	No
	2 – 19/07/2022	Dawn	23 21	0 0	1 1	0 0	No
T223	1 – 07/07/2022	Dawn	17 15	2 1	3 1	0 0	No
	2 – 21/07/2022	Dusk	15 15	3 3	8 8	0 0	No
T225	1 – 03/08/2022	Dawn	18 17	4 4	2 2	0 0	No
	2 – 22/08/2022	Dusk	18 16	2 1	4 4	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T228	1 – 08/06/2022	Dusk	16 13	2 1	2 4	0 0	No
T230	1 – 03/08/2022	Dawn	17 15	3 or 4 3 or 4	1 1	0 0	No
	2 – 25/08/2022	Dusk	16 13	2 2	1 1	0 0	No
T234	1 – 29/09/2021	Dusk	12 10	0 0	2 5	0 0	No
	2 – 13/07/2022	Dusk	15 14	2 0	2 0	0 0	No
	3 – 04/08/22	Dawn	15 15	2 2	8 6	0 0	No
T238	1 – 13/07/2022	Dawn	17 15	4 3	7 6	0 0	No
	2 – 02/08/2022	Dusk	21 20	3 3	6 6	0 0	No
	3 – 23/08/2022	Dusk	20 21	0 0	7 3	1 0	No
T240	1 – 11/08/2021	Dusk	18 16	1 1	1 1	0 0	No
T241	1 – 11/08/2021	Dusk	18 16	1 1	1 1	0 0	No
T248	1 – 30/06/2021	Dawn	15 13	1 1	4 4	0 0	No
	2 – 19/07/2021	Dusk	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
	2 – 04/08/2022	Dawn	14 15	3 3	6 7	0 0	No
	3 – 24/08/2022	Dusk	16 15	1 1	6 ?	0 0	No
T255	Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A
T261	1 – 02/09/2021	Dusk	18 16	0 0	2 0	0 0	No
T265	1 – 10/05/2022	Dusk	13 13	2 2	8 8	0 0	No
T267	1 – 13/08/2021	Dusk	19 16	3 2	5 6	0 0	No
	2 – 28/09/2021	Dawn	11 11	2 2	5 8	0 0	No
T272	1 – 16/06/2022	Dawn	8 9	1 1	0 0	0 0	No
	2 – 12/07/2022	Dusk	20 10	1 2	6 7	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T273	1 – 16/06/2022	Dusk	19 18	1 1	7 8	0 0	No
	2 – 12/07/2022	Dusk	22 19	1 2	4 6	0 0	No
T274	1 – 16/06/2022	Dawn	9 8	1 2	1 2	0 0	No
	2 – 12/07/2022	Dusk	21 19	2 2	1 7	0 0	No
T275	10/08/2021	Dusk	17 16	1 1	2 2	0 0	No
	11/05/2022	Dawn	12 11	1 1	5 5	0 1	No
T276	10/08/2021	Dusk	17 16	1 1	2 2	0 0	No
	12/05/2022	Dawn	8 8	1 0	1 0	0 0	No
T277	1 – 09/08/2021	Dawn	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
T278	1 – 09/08/2021	Dawn	13 12	1 1	8 8	0 0	No
	2 – 20/10/2021 Climb as visit	N/A	N/A	N/A	N/A	N/A	N/A
T279	1 – 09/08/2021	Dawn	13 12	1 1	8 8	0 0	No
	2 – 13/07/2022	Dusk	17 14	1 1	2 1	0 0	No
T283	1 – 13/07/2022	Dawn	17 16	3 4	8 4	0 0	No
	2 – 04/08/2022	Dusk	17 15	2 2	2 3	0 0	No
	3 – 24/08/2022	Dusk	17 16	0 0	6 7	0 0	No
T284	1 – 12/07/2022	Dusk	22 19	2 2	4 4	0 0	No
	2 – 25/08/2022	Dawn	15 15	2 2	8 4	0 0	No
T286	1 – 14/06/2022	Dawn	9 8	1 1	0 1	0 0	No
	2 – 13/07/2022	Dusk	17 14	2 2	2 1	0 0	No
T288	1 – 23/08/2021	Dusk	20 18	1 1	3 4	0 0	No
	2 – 30/06/2022	Dawn	12 11	0 0	8 8	1 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T292	1 – 22/06/2022	Dawn	13 12	2 1	1 2	0 0	No
	2 – 14/07/2022	Dusk	16 14	3 0	3 3	0 0	No
T293	1 – 22/06/2022	Dawn	13 13	1 1	0 1	0 0	No
	2 – 14/07/2022	Dusk	17 14	2 1	3 2	0 0	No
T295	1 – 11/08/2021	Dawn	14 12	2 3	8 7	0 0	No
	2 – 23/09/2021	Dusk	16 16	2 1	5 8	0 0	Yes
T296	1 – 11/08/2021	Dawn	13 13	1 1	2 1	0 0	No
	2 – 29/09/2021	Dusk	12 9	2 0	6 5	0 0	Yes
T297	1 – 11/08/2021	Dawn	13 13	1 1	2 1	0 0	No
	2 – 19/05/2022	Dusk	15 13	3 3	4 7	0 0	No
T302	1 – 13/06/2022	Dusk	14 12	0 0	1 1	0 0	No
	2 – 14/07/2022	Dawn	12 13	2 2	7 8	0 0	No
T304	1 – 13/06/2022	Dusk	14 12	0 0	1 1	0 0	No
	2 – 14/07/2022	Dawn	12 13	2 2	8 7	0 0	No
T309	1 – 14/06/2022	Dusk	15 12	0 0	1 0	0 0	No
T317	1 – 15/06/2022	Dusk	16 13	0 0	0 0	0 0	No
	2 – 14/07/2022	Dawn	13 13	0 1	8 7	0 0	No
T318	1 – 13/07/2022	Dawn	17 16	1 2	8 8	1 0	No
	2 – 02/08/2022	Dusk	22 20	4 3	6 6	0 0	No
	3 – 23/08/2022	Dusk	20 19	2 1	8 7	0 0	No
T321	1 – 13/07/2022	Dawn	17 16	1 2	7 7	0 0	No
	2 – 04/08/2022	Dusk	15 13	1 1	1 2	0 0	No
	3 – 23/08/2022	Dusk	20 19	1 1	6 4	1 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T324	1 – 10/05/2022	Dusk	14 13	2 2	3 5	0 0	No
	2 - 14/07/2022	Dawn	12 13	1 2	7 7	0 0	No
	3 - 17/08/2022	Dusk	18 16	1 1	8 8	0 0	No
T325	1 – 10/08/2021	Dusk	17 15	1 1	7 7	0 0	No
	2 – 23/06/2022	Dawn	12 12	1 1	1 1	0 0	No
	3 – 13/07/2022	Dusk	16 ?	1 ?	2 ?	0 ?	No
T327	1 – 10/08/2021	Dusk	17 15	1 1	7 7	0 0	No
	2 - 12/05/2022	Dawn	9 8	1 1	1 1	0 0	No
T329	1 – 10/08/2021	Dusk	17 15	1 1	7 7	0 0	No
	2 - 12/05/2022	Dawn	9 9	1 1	1 1	0 0	No
T331	1 – 10/08/2021	Dusk	17 15	1 1	7 7	0 0	No
	2 – 11/05/2022	Dawn	12 11	2 2	2 3	0 2	No
T332	1 – 10/08/2021	Dusk	17 15	1 1	7 7	0 0	No
	2 – 10/05/2022	Dawn	13 12	2 2	2 2	0 0	No
T336	1 – 08/09/2021	Dawn	16 14	0 0	0 0	0 0	No
	2 – 29/06/2022	Dusk	15 14	1 1	4 8	0 3	No
T338	1 – 08/09/2021	Dawn	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
	2 – 17/08/2021	Climb as visit	N/A	N/A	N/A	N/A	N/A
T339	1 – 14/07/2021	Dusk	18 15	1 1	0 0	0 0	No
	2 – 12/08/2021	Dawn	11 11	2 3	7 7	0 0	No
T340	1 – 14/07/2021	Dusk	17 15	0 1	0 1	0 0	No
	2 – 12/08/2021	Dawn	11 11	2 3	7 7	0 0	No
	3 – 21/09/2021	Dusk	16 14	0 0	7 8	0 0	Yes

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T345	1 – 09/08/2021	Dusk	17 15	2 2	6 7	0 0	No
	2 – 29/09/2021	Dawn	12 11	2 2	8 8	1 0	No
T349	1 – 09/08/2021	Dusk	17 15	2 2	6 7	0 0	No
	2 – 06/10/2021	Dawn	12 11	5 5	4 3	0 0	No
T350	1 – 09/06/2022	Dawn	11 11	2 2	1 2	0 0	No
	2 – 06/07/2022	Dusk	18 16	4 4	8 8	0 0	No
T355	1 – 07/09/2021	Dawn	15 13	0 0	8 8	0 0	Yes
T358	1 – 30/06/2021	Dusk	15 15	1 1	3 2	0 0	No
	2 – 07/09/2021	Dawn	12 12	1 1	8 3	0 0	No
T359	1 – 07/09/2021	Dawn	12 12	0 0	8 8	0 0	No
T364	1 – 07/06/2022	Dusk	16 16	2 2	8 8	1 0	No
	2 – 13/07/2022	Dawn	20 18	2 2	8 8	0 0	No
T365	1 – 07/06/2022	Dusk	13 16	3 2	8 8	1 0	No
	2 – 12/07/2022	Dawn	20 20	2 2	8 8	0 0	No
	3 – 16/08/2022	Dawn	16 17	3 2	8 8	0 0	No
T371	1 – 10/05/2022	Dusk	13 13	2 2	2 2	0 0	No
	2- 19/07/2022	Dawn	22 22	1 2	2 2	0 0	No
	3- 22/09/2022	Dusk	14 14	0 0	7 7	1 0	No
T378	1 – 22/06/2022	Dusk	19 16	1 1	1 1	0 0	No
	2- 12/07/2022	Dawn	20 21	1 2	7 7	0 0	No
T382	1 – 03/09/2021	Dawn	14 14	1 1	8 8	0 0	No
	2 – 16/06/2022	Dawn	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
	2 - 22/09/2021	Dusk	18 14	3 1	6 1	0 0	Yes

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
T393	1 – 16/06/2022	Dusk	19 19	1 2	6 7	0 0	No
	2 – 29/07/2022	Dawn	14 15	1 1	8 8	0 0	No
T401	1 – 09/06/2022	Dawn	10 9	2 1	1 2	0 0	No
	2 – 19/07/2022	Dusk	24 20	1 2	2 2	0 0	No
T402	1 – 14/06/2022	Dawn	7 7	1 1	1 2	0 0	No
	2 – 19/07/2022	Dusk	22 21	0 0	2 2	0 0	No
T403	1 – 28/07/2022	Dawn	13 13	1 1	8 8	0 0	No
	2 – 20/09/2022	Dusk	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
	2 – 28/06/2022	Dawn	12 12	1 0	7 7	0 0	No
T417	1 – 24/08/2021	Dusk	20 16	0 0	4 4	0 0	No
T434	1 – 21/06/2022	Dawn	9 9	2 2	4 3	0 0	No
	2 – 05/07/2022	Dusk	15 15	1 0	8 8	0 0	No
T435	1 – 21/06/2022	Dawn	7 7	1 1	2 2	0 0	No
T437	1 – 15/06/2021	Dusk	19 17	0 0	1 2	0 0	No
	2 – 15/07/2021	Dawn	17 18	2 2	4 8	0 0	No
T438	1 – 15/06/2021	Dusk	21 17	1 1	0 0	0 0	No
	2 – 15/07/2021	Dawn	19 19	1 1	8 8	0 0	No
T449	1 – 12/05/2022	Dusk	13 12	3 3	5 8	0 0	No
	2 - 27/07/2022	Dawn	11 10	1 1	2 2	0 0	No
T451	1 – 12/05/2022	Dusk	12 12	2 3	7 8	0 0	No
T452	1 - 30/06/2021	Dusk	16 13	0 0	1 7	0 0	No
	2 - 15/07/2021	Dawn	17 16	3 4	4 8	0 0	No
T453	1 -24/05/2022	Dusk	14 12	2 2	2 5	0 0	No

Tree ID or Tag No.	Survey No.	Dusk/Dawn	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 used?
	2 -20/07/2022	Dawn	18 17	3 4	5 6	0 0	No
T454	1 -24/05/2022	Dusk	14 11	3 1	1 2	0 0	No
	2 -20/07/2022	Dawn	18 17	3 3	7 7	0 0	No
T456	1 – 07/10/2021	Dawn	14 14	1 2	6 7	0 0	No
T461	1 – 08/09/2021	Dusk	23 21	0 1	6 5	0 0	No
	2 – 22/06/2022	Dawn	12 14	2 1	0 0	0 0	No
T462	1 – 08/09/2021	Dusk	24 19	0 0	7 7	0 0	No
	2 – 15/06/2022	Dawn	10 8.5	1 1	1 1	0 0	No
T464	1 – 15/06/2022	Dusk	16 14	1 1	1 1	0 0	No
	2 – 29/07/2022	Dawn	15 15	1 1	7 8	0 1	No

Annex G

BATS STRUCTURE AND TREES PHOTO SUPPLEMENT

