# The Sizewell C Project

## 9.17 Bat Roost Surveys in Trees - Main Development Site

Revision: 2.0
Applicable Regulation: Regulation 5(2)(q)
PINS Reference Number: EN010012

June 2021

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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# 1 SUMMARY

1.1.1 This document provides the results of the 2021 bat tree inspection surveys conducted on the Sizewell C main development site in 2021. It provides the detail required to inform the required European Protected Species Licences (EPSL).

## 1.2 Receptor Status 2021 Overview

1.2.1 Bat tree inspections were undertaken on high and moderate potential trees previously identified in 2020 within the proposed vegetation removal zones of the main development site. An additional 36 newly identified trees were inspected; some of these were identified due to changes in proposed vegetation removal, some were inspected whilst surveying nearby trees and some new features were identified whilst conducting the aerial surveys. The inspections comprised the use of an endoscope from the ground or aerially inspected using a ladder or climbing equipment.

1.2.2 The results are summarised in **Table 1.1** below.

**Table 1.1: Summary of trees with bat roost suitability identified and updated in 2021, within vegetation removal zones of the main development site.**

| Number of trees with identified bat roost suitability in 2021 | | | | |
|---|---|---|---|---|
| **Low** | **Moderate** | **High** | **Confirmed Roost** | **Total** |
| 30 | 47 | 12 | 2 | 124 |

# 2 OVERVIEW

## 2.1 The Aims of the 2021 Surveys

2.1.1 The aim of the 2021 bat surveys was to inform the required European Protected Species Licence (EPSL) to permit development to proceed.

2.1.2 Detailed bat tree roost inspection surveys were also undertaken on the Additional Development Sites. They were undertaken using the same methodology as the main development site surveys outlined in this report. The surveys for the Additional Development Sites have been reported separately (Ref.1).

# 3 METHODS

3.1.1 The 2021 surveys consisted of detailed inspections of trees that were previously assessed through ground level tree assessments. The 2021 surveys comprised the use of an endoscope from ground or ladder and climbing assessments to assess the suitability of potential roosting features. Some additional ground level tree assessments were undertaken in 2021 and were then further informed by subsequent survey using an endoscope from ground, ladder or with climbing equipment.

3.1.2 Previous survey results within the **2020 Bat Tree Inspection Report** [AS-021]. were reviewed, and cross referenced with the proposed vegetation clearance plan to determine which trees with roosting bat potential were located within the proposed vegetation removal zones of the main development site.

3.1.3 Trees identified during ground-level roost assessments as having high or moderate roosting potential within the site were assessed internally for their suitability to support roosting bats. In accordance with standard bat survey methodology (Ref. 2) trees were assigned a level of roost suitability as set out in **Table 3.1** below.

**Table 3.1 Potential bat roost suitability criteria**

| Suitability | Description |
|---|---|
| Negligible | Negligible habitat features on site likely to be used by roosting bats. |
| Low | A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity or hibernation).<br>A tree of sufficient size and age to contain potential roost features but with none seen from the ground or features seen with only very limited roosting potential. |
| Moderate | A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments in this table are made irrespective of species conservation |

| Suitability | Description |
|---|---|
| | status, which is established after presence is confirmed). |
| High | A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat. |

3.1.4 The surveys were undertaken between January and April 2021, when broadleaved tree foliage was absent, and consisted of checks of features on trees with the use of ladders and endoscopes, where possible.

3.1.5 Where roost features were not reachable by other means, trees were climbed. Tree species, direct evidence of bats and a detailed description of potential features, such as diameter, height and aspect were recorded. Two qualified tree climbers (trained to the City & Guilds NPTC Level 2 Award in Tree Climbing and Aerial Rescue standard) accessed trees using a ladder or harness and ropes to carry out a detailed internal inspection of Potential Roost Features (PRFs) identified from ground level during ground level roost assessments. At least one of the tree climbers was a competent ecologist and a Natural England Class 2 bat licence holder, which allows the lawful use of a torch/endoscope to potentially disturb roosting bats. The inspections were aided by using torches, mirrors and endoscopes to verify features' suitability, compile information on their dimensions and to search for evidence of bats.

# 4 LIMITATIONS

4.1.1 A number of trees were unable to be climbed during the 2021 surveys due to tree health, a lack of safe access points or safe access to the tree itself; these trees have been identified separately in **Table 6 - Appendix B**.

4.1.2 As the primary purpose of the aerial surveys was to determine the roost resource, where trees could not be climbed a precautionary assessment of the roost value was retained based on ground level inspections.

4.1.3 Due to the transitional nature of bat roosts, surveys undertaken to establish the nature of use by bats at any point in time do not exclude the potential for trees to be occupied in the future.

4.1.4 The survey results presented here document the findings at the time of each survey, however, any tree may gain/lose potential to tree-roosting bats as

trees are dynamic living organisms and may change as a result of weather conditions, decay, disease etc.. For example, eight trees previously identified as having moderate bat roost suitability in Goose Hill Plantation were reassessed and no suitable features were identified.

# 5 RESULTS

## 5.1 Previous Survey/ Data Analysis

5.1.1 In 2020 the ground level tree assessments identified a total of 322 trees with low, moderate or high potential for roosting bats. One tree was identified as a confirmed roost.

5.1.2 These trees surveyed in 2020 contained an identified 626 PRFs. The results of the ground level tree assessments are summarised in **Table 5.1** below and detailed within the **2020 Bat Tree Inspection Report** [AS-021]. Of these, 238 trees were considered to be of high or moderate potential, including the confirmed roost. Following comparison with the proposed vegetation removal zones, a total of 96 trees of either high or moderate bat roost suitability including the previously confirmed roost were identified as requiring removal and therefore were included in further survey work in 2021.

**Table 5.1: Summary of results of ground-level tree assessments conducted in 2020. The details of these surveys and the study area are presented in the 2020 Bat Tree Inspection Report.**

| Woodland | Tree Roost Potential | | | | |
|---|---|---|---|---|---|
| | Low | Moderate | High | Confirmed Roost | Total |
| Kenton Hills (area along the northern track) | 7 | 46 | 13 | **0** | **66** |
| Goose Hill Plantation | 21 | 104 | 7 | **0** | **132** |
| Fiscal Policy | 48 | 24 | 2 | **0** | **74** |
| Additional Features | 9 | 33 | 8 | **1** | **51** |

| Woodland | Tree Roost Potential | | | | |
|---|---|---|---|---|---|
| | Low | Moderate | High | Confirmed Roost | Total |
| (Hedgerows and scattered trees) | | | | | |
| Total | **85** | **207** | **30** | **1** | **323** |

## 5.2 2021 Field Survey

5.2.1 In 2021 a total of 132 trees were identified for further survey – these were trees of high or moderate suitability which are located within the proposed vegetation removal zones. These comprised the above-mentioned 96 trees from the 2020 surveys plus an additional 36 trees surveyed during additional ground level tree assessments and incidental field surveys in 2021. This included four trees that were identified for further survey following a winter ground level tree assessment of broadleaved trees previously categorised as having low suitability in summer, to ensure no PRFs were obscured by dense foliage; these were re-assessed as moderate.

5.2.2 Of the 132 trees, 35 trees were unable to be further assessed due to being inaccessible or unsafe to climb either as a result of tree health, a lack of safe access points or safe access to the tree itself; in several cases this was identified at the ground level tree assessment stage and alternative surveys will be fulfilled as required in 2021. Details of these trees are highlighted in **Appendix B**. A single tree was unable to be surveyed further as it supported a barn owl (*Tyto alba*) nest. For these trees, their bat roost suitability remains the same as identified in 2020 pending further survey and they are included in the summary below.

5.2.3 Of these 97 trees, eight trees previously identified as having moderate bat roost suitability in Goose Hill Plantation were reassessed and no suitable features were identified.

5.2.4 Therefore, a total of 89 trees assessed from the ground as having high and moderate bat roost suitability were subject to aerial survey in 2021, following the methodology outlined in **Section 1** above. These 89 trees, in addition to the 35 which will require alternative survey methodology, are proposed for removal within the vegetation removal zones. A summary of tree roost potential for each area is provided in **Table 5.2** below. The results are provided in full in **Table 6 – Appendix B** and shown on **Figure 1**.

**Table 5.2: Summary of tree roost potential in 2021**

| Woodland | Tree Roost Potential | | | | | |
|---|---|---|---|---|---|---|
| | Negligible | Low | Moderate | High | Confirmed Roost | Total |
| Kenton Hills (area along the northern track) | 0 | 0 | 2 | 0 | **0** | **2** |
| Goose Hill Plantation | 37 | 17 | 14 | 1 | **1** | **70** |
| Fiscal Policy | 2 | 4 | 6 | 0 | **0** | **12** |
| Additional Features (Hedgerows and scattered trees) | 4 | 10 | 24 | 9 | **1** | **48** |
| Total | **43** | **31** | **46** | **10** | **2** | **132** |

5.2.5 One new confirmed bat roost, was identified during the aerial inspection surveys, located within a field boundary to the north of Goose Hill Plantation, whilst a confirmed roost identified in 2020 within the Additional Features[1] was revisited and the tree confirmed to still support a roost. A total of two confirmed bat roosts have now been identified within the main development site, as follows:

- Tree AF24 – single soprano pipistrelle (*Pipistrellus pygmaeus*) day roost within hazard beam; droppings previously identified within alternative PRF on tree;
- Tree G136 – Natterer's bat (*Myotis nattereri*) hibernation roost within flute in stem.

5.2.6 The trees identified as having high bat roost suitability within the proposed vegetation removal zones were predominantly located within the Additional Features of the main development site, limited to field boundaries and scattered trees outside of the main woodland blocks. The high potential trees

[1] Additional Features are defined as hedgerows or trees not encompassed by woodland blocks.

were located in isolated clusters of trees which also comprised moderate and low potential trees, or on the margins of more extensive homogenous areas of (predominately plantation) woodland. After the 2021 surveys, the overall bat roost suitability of a large number of trees was downgraded as a result of more detailed aerial inspections; full details are presented in Appendix B.

# 6 DISCUSSION

6.1.1 Surveys in 2021 identified two confirmed roosts of differing species within the main development site and outlining the presence of trees with high and moderate suitability to support roosting bats that are within the proposed vegetation removal zones.

6.1.2 Two confirmed roosts, a single soprano pipistrelle transitional roost and a Myotis hibernation roost, were identified within the Additional Features and Goose Hill Plantation areas of the main development site respectively. It should be noted that because tree roosts are highly transitional (a strategy thought to reduce parasitism and predation in tree roosting bats (Ref. 3)), the likelihood of roost detection in trees in comparison to other structures is reduced. The surveys also resulted in multiple trees being downgraded with regard to overall tree potential due to features being less suitable or unsuitable when inspected aerially in close proximity.

6.1.3 Ten trees with high bat roost suitability and 46 trees with moderate bat roost suitability were also identified following the 2021 surveys; this is a total of 56 high and moderate potential trees within the proposed vegetation removal zones in comparison with 96 identified following previous surveys. The total number of trees considered to be of low and negligible potential proposed to be removed has increased to 31 and 43, respectively, due to the reasons detailed above.

6.1.4 Trees of high, moderate and low potential have the potential to support the following tree roosting species, which have been recorded within the main development site through activity and static detector surveys; common pipistrelle (*Pipistrellus pipstrellus*), soprano pipistrelle, Nathusius' pipistrelle (*Pipistrellus nathusii*), serotine (*Eptesicus serotinus*), barbastelle (*Barbastella barbastellus*), *Myotis* sp., and *Nyctalus* sp.

6.1.5 Due to the transitional nature of tree roost use, it is assumed that a proportion of potential roosts may be used by roosting bats concurrently, demonstrated by a roost having been confirmed in two separate PRFs located within the same tree (AF24). Therefore, where proposed vegetation removal is likely to remove potential roost clusters, in locations such as north of Kenton Hills car park and the boundary features to the north of Goose Hill Plantation, the

effect on the local bat population is likely to be greater than locations where a single potential roost resource in being lost.

6.1.6 The surveys conducted to date are considered sufficient to inform the status of the roost resource within the woodlands and trees surveyed. This information will inform a proposed Organisational Licence in relation to impacts to bats, an approach that has previously been discussed with Natural England. However, it will be necessary to safeguard individual bats during vegetation removal through further targeted survey to be completed during the enabling and construction phase.

6.1.7 After project approval, the following surveys will be undertaken prior to removal of trees, during the development of the scheme:

- Further inspection and/or dusk emergence/ dawn re-entry surveys, on trees identified in this report where the inspection was constrained and all trees assessed as having moderate or high potential.
- Pre-felling surveys for any tree where suitable features have been identified to confirm absence of bat presence.
- For low roost potential trees, removal will follow best practice at the time of tree removal which may include soft/sectional felling.

6.1.8 The timing of these surveys will be dependent on the phasing of the development and the surveys will be conducted according to the prescriptions of the applicable bat licence, and as close to tree removal for each phase as is practicable.

6.1.9 Surveys undertaken to establish the nature of use at any point in time do not exclude the potential for trees to be occupied in the future. In the event that a tree to be felled is found to be occupied by a roosting bat, licensing and mitigation procedures would be followed.

# 7 CONCLUSION

7.1.1 A total of 124 trees, which are currently proposed for removal, were surveyed in 2021 for their bat roost potential resulting in 12 high potential trees and 47 moderate potential trees. Two confirmed active roosts were identified within the main development site vegetation removal zones. These data in addition to information on further surveys and mitigation will be incorporated into an Organisational Licence for bats to ensure no direct mortality and the favourable conservation status of these species.

# REFERENCES

1. Sizewell C. 2021. Associated Development Site Tree Roost Inspection Report.

2. Collins. 2016. Bat Surveys for Professional Ecologists: Good Practice Guidelines. 3rd edition. London: The Bat Conservation Trust.

3. D. Russo. L. Cistrone. G.Jones and S. Mazzoleni. 2004. Roost selection by barbastelle bats (*Barbastella barbastellus*) in beech woodlands of central Italy: Consequences for conservation. Biological Conservation, 117. 73-81.

# APPENDIX A: FIGURES

## Figure 1: main development site Bat Tree Roost Inspection Results 2021

KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

**TREES SURVEYED WITHIN VEGETATION REMOVAL ZONES**

- HIGH POTENTIAL
- MODERATE POTENTIAL
- LOW POTENTIAL
- CONFIRMED ROOST
- NEGLIGIBLE POTENTIAL
- PLANNED VEGETATION REMOVAL
- SIZEWELL MARSHES SSSI (UNABLE TO ACCESS FOR GLTA/AERIAL INSPECTIONS)

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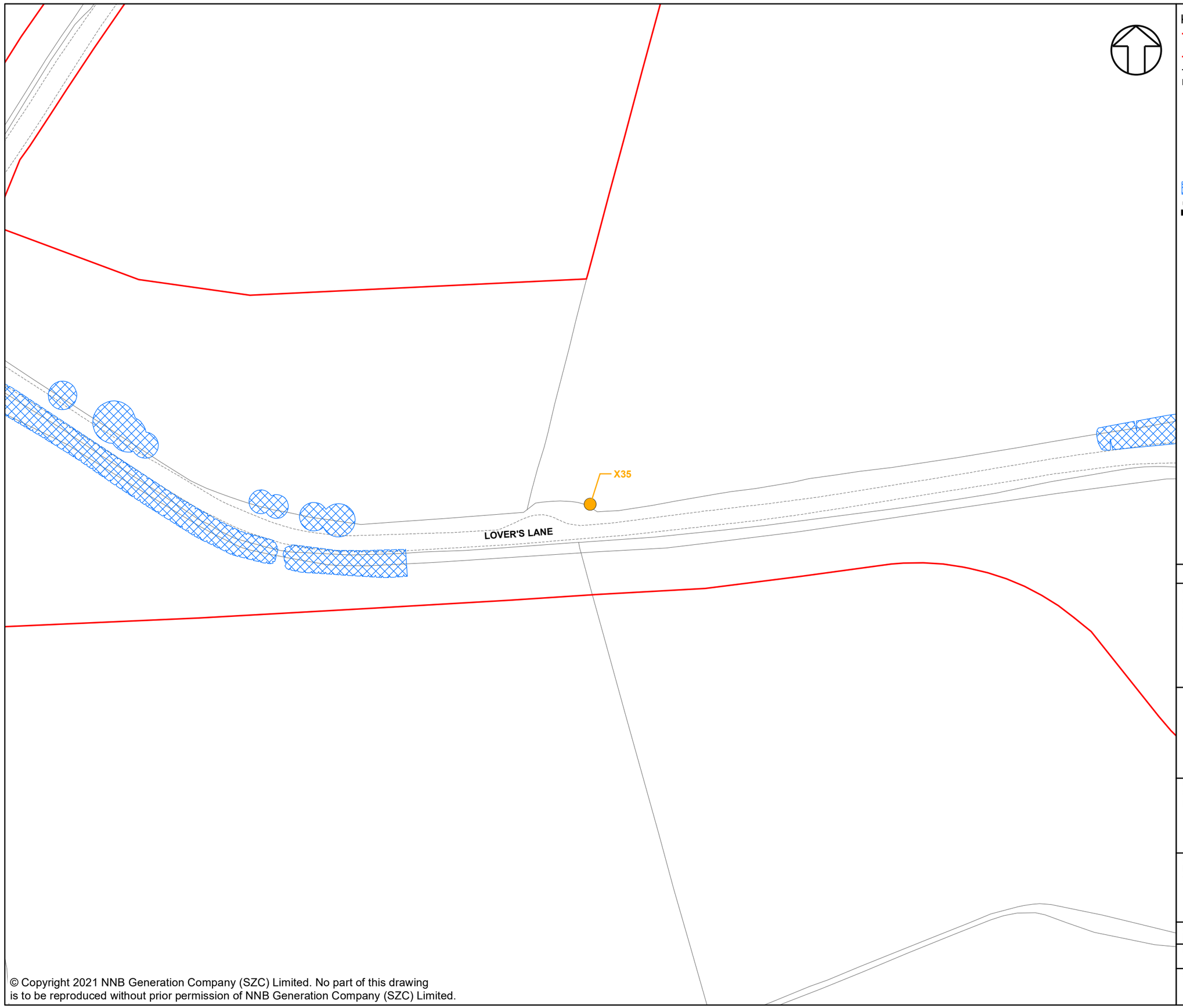


KEY

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PLANNED VEGETATION REMOVAL

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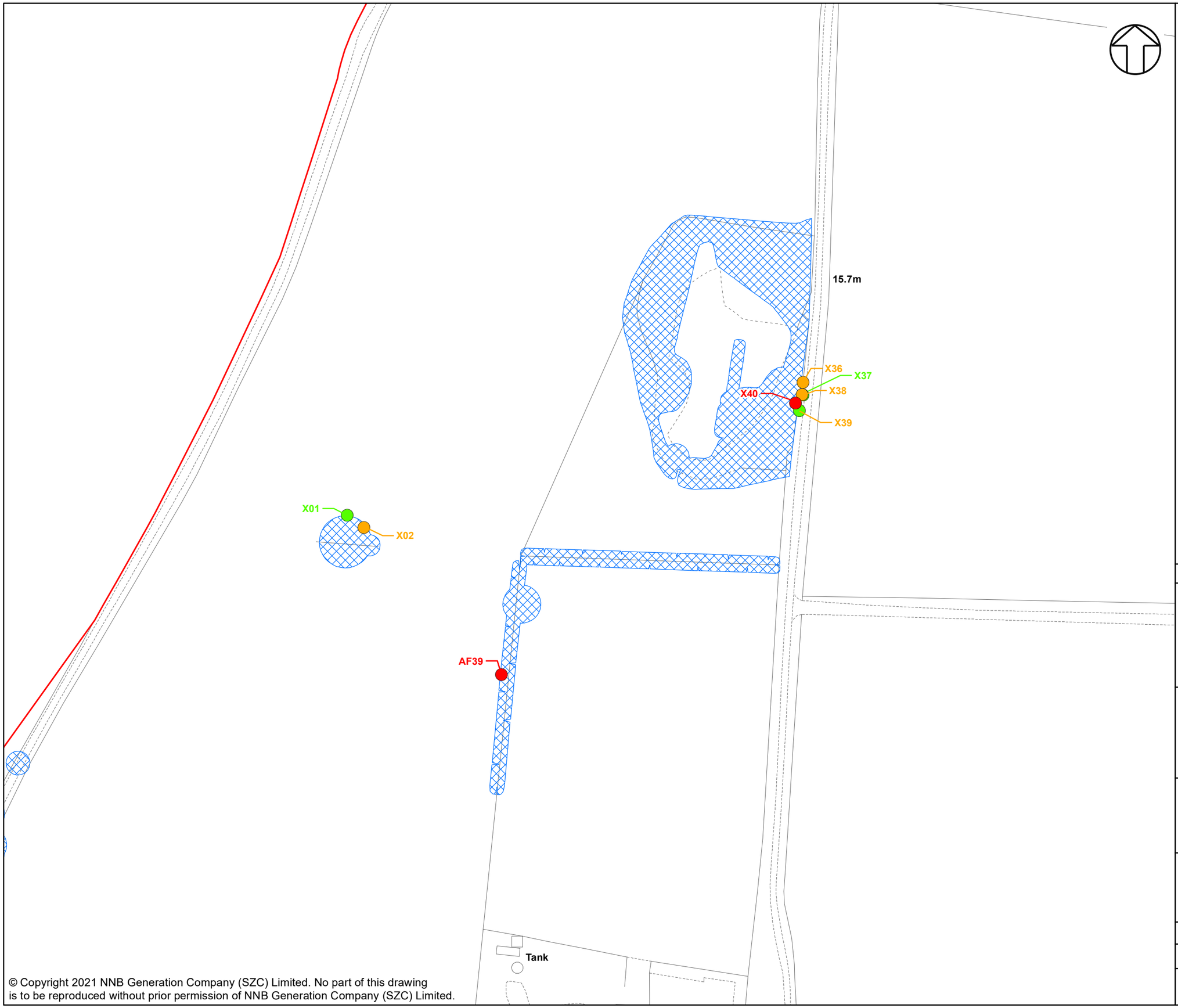


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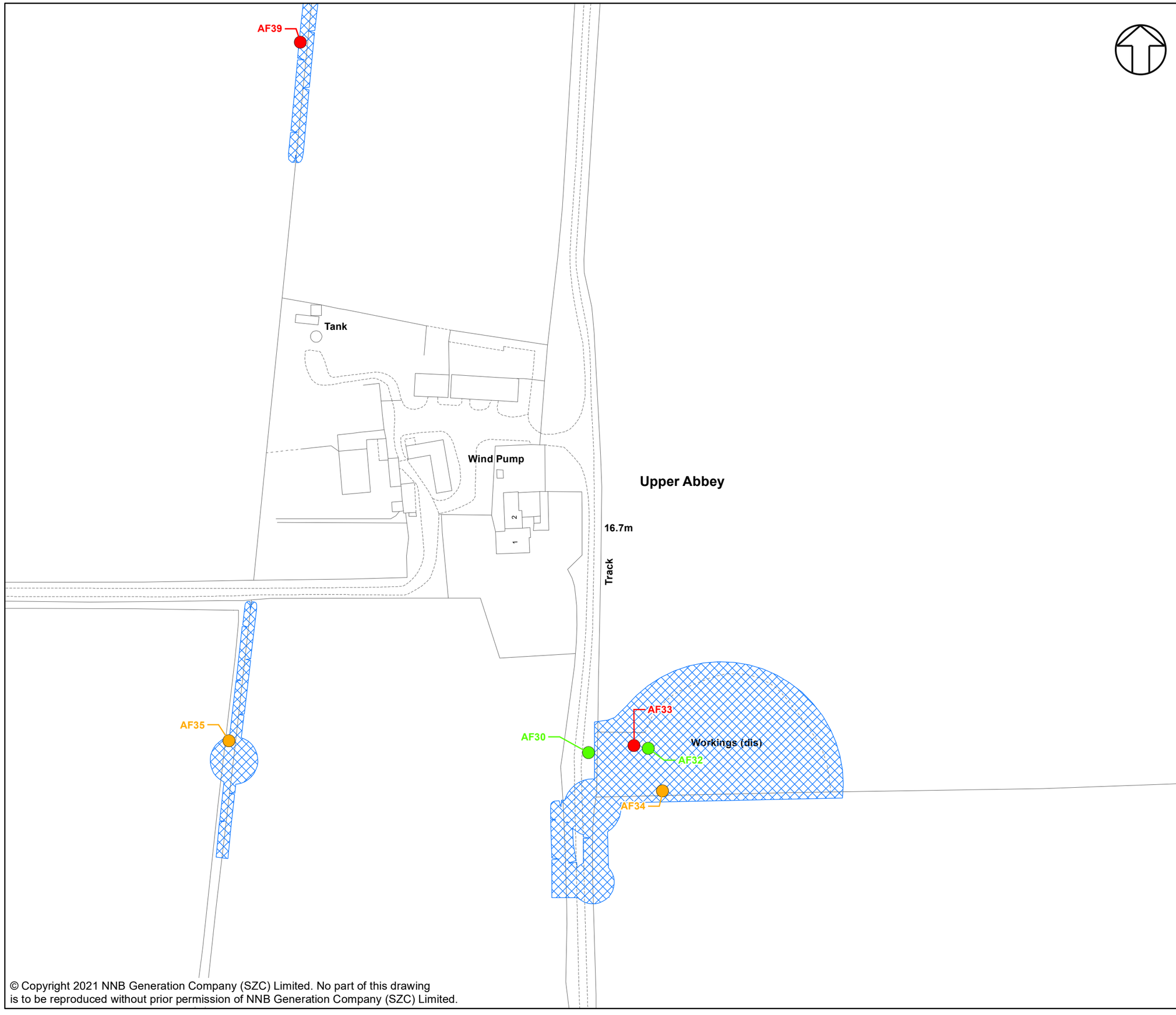


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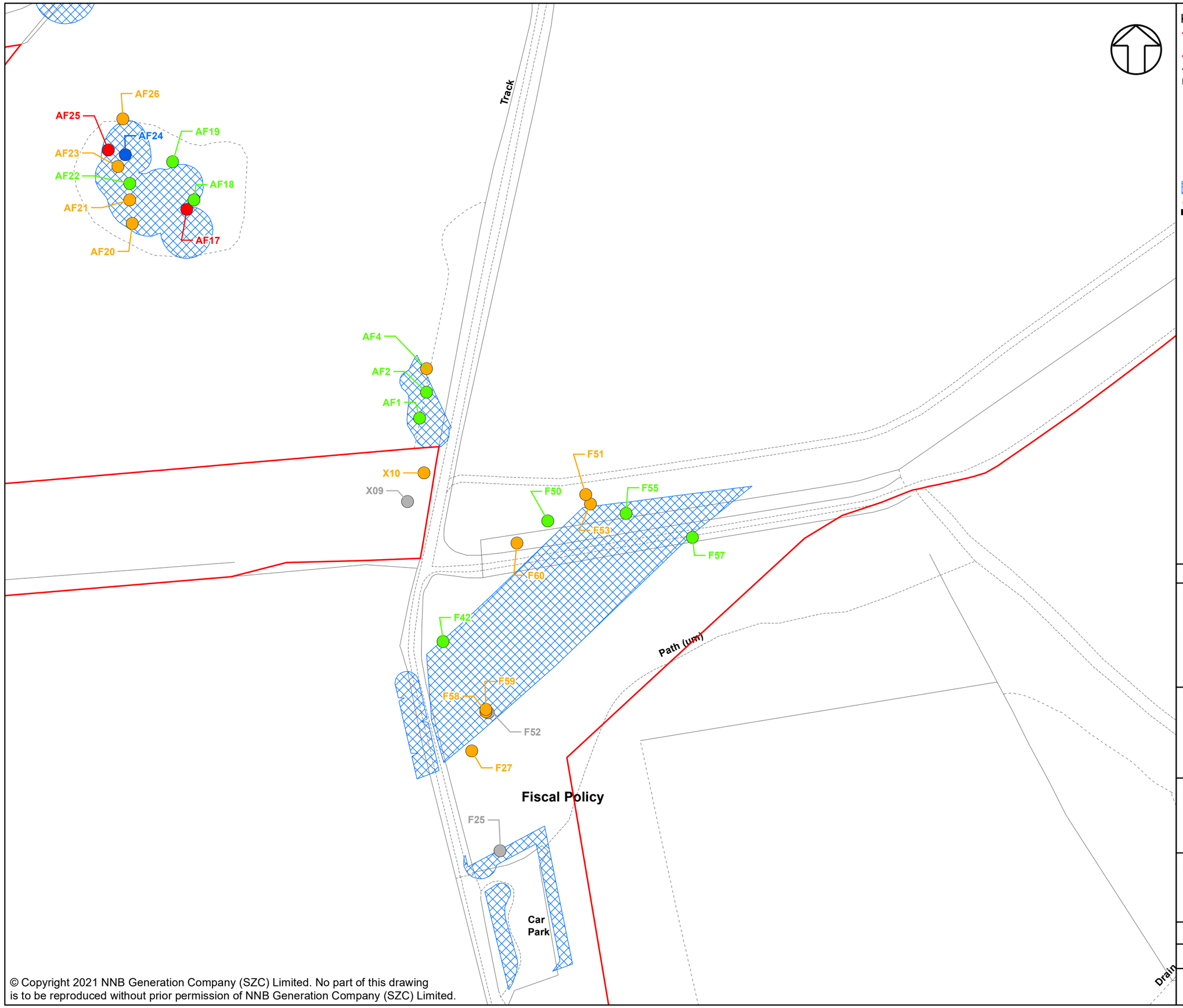


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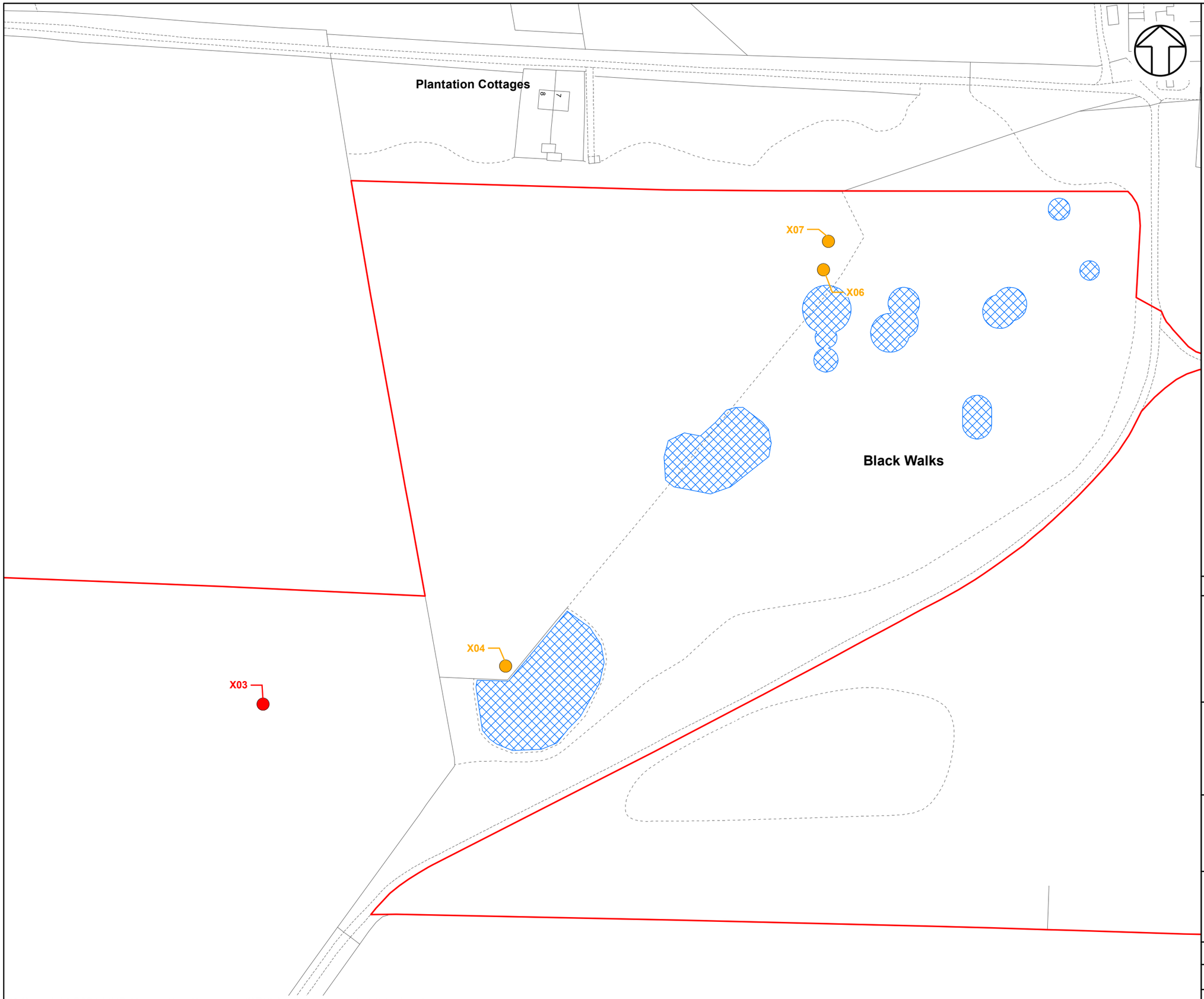


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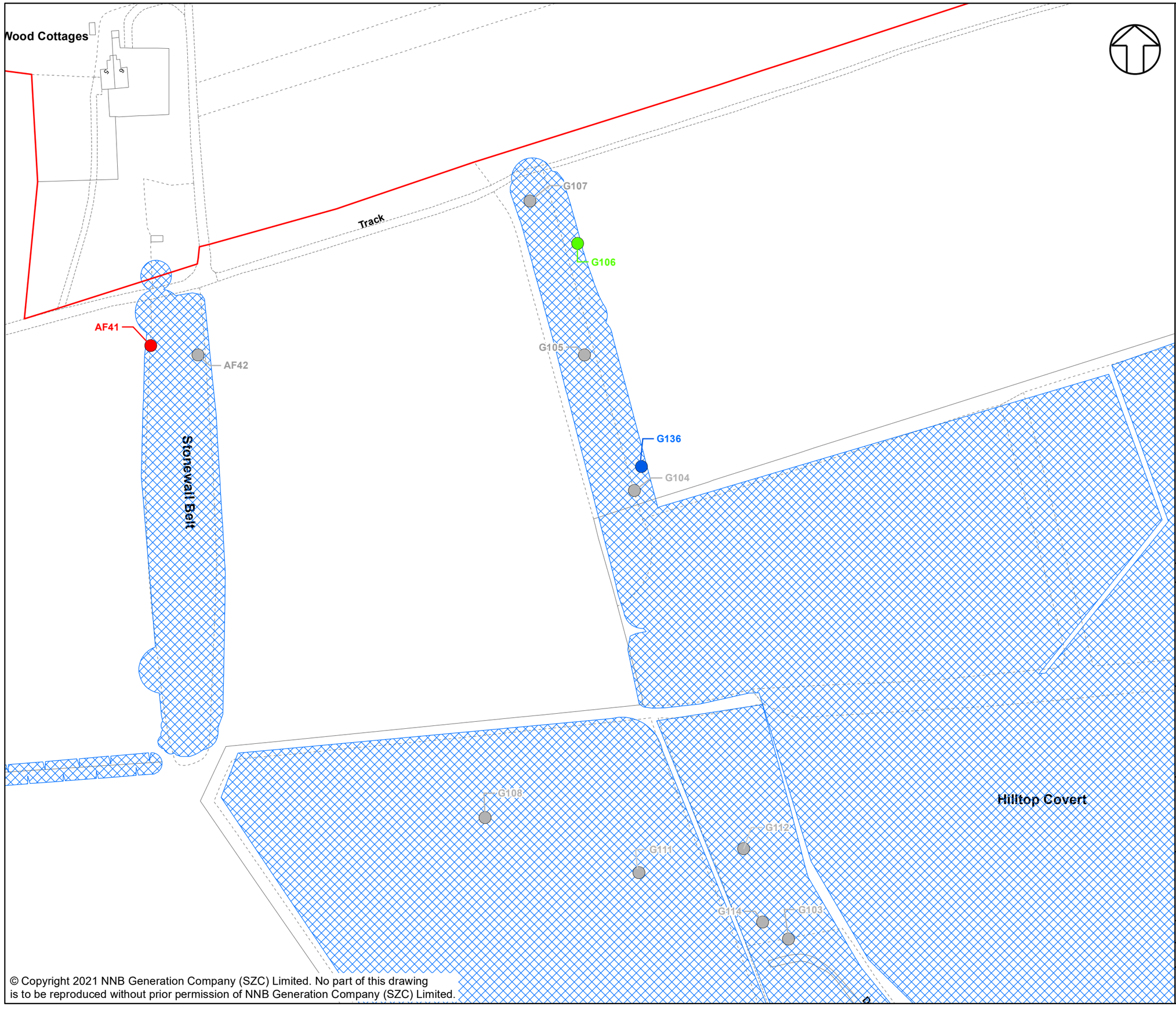


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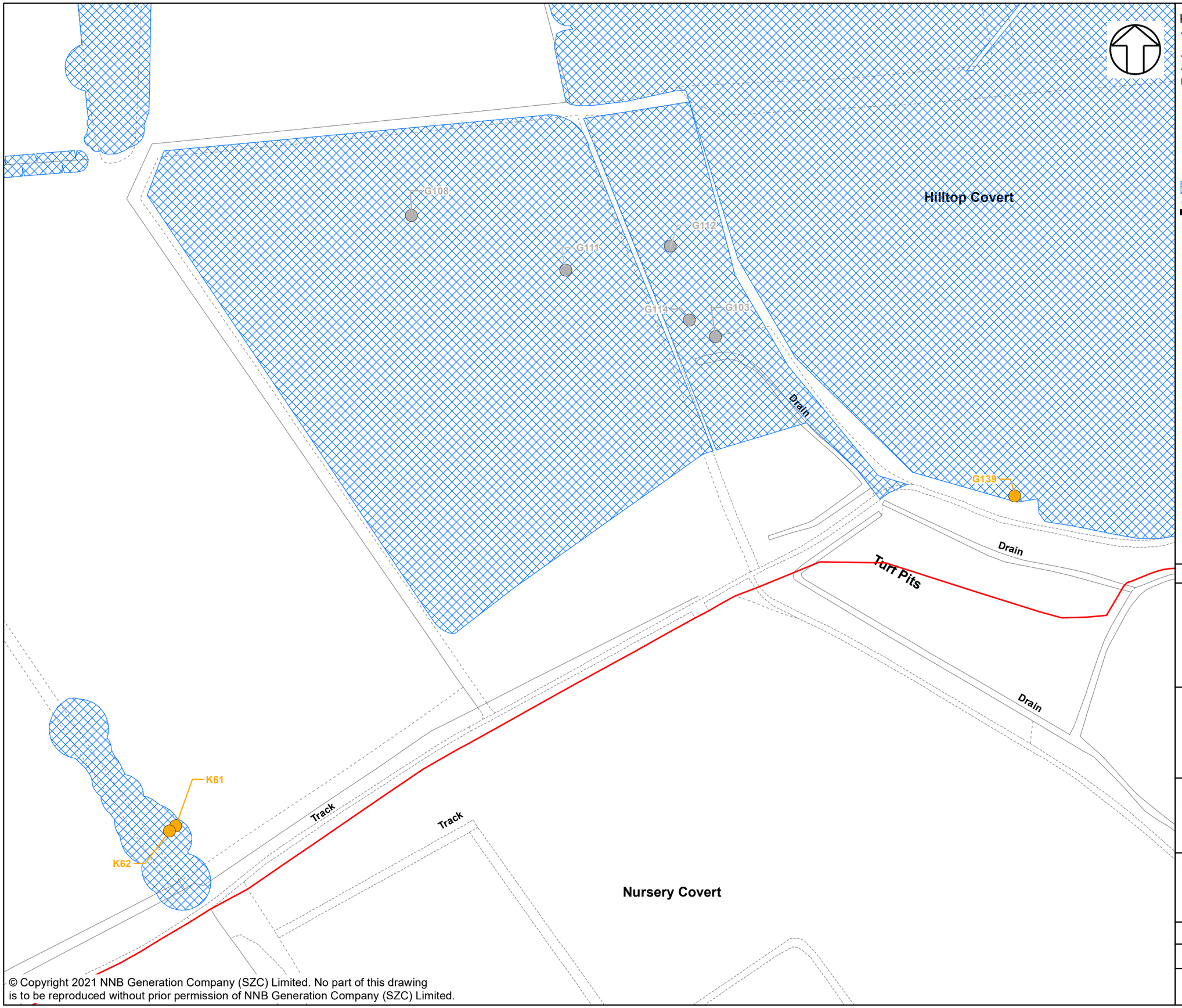


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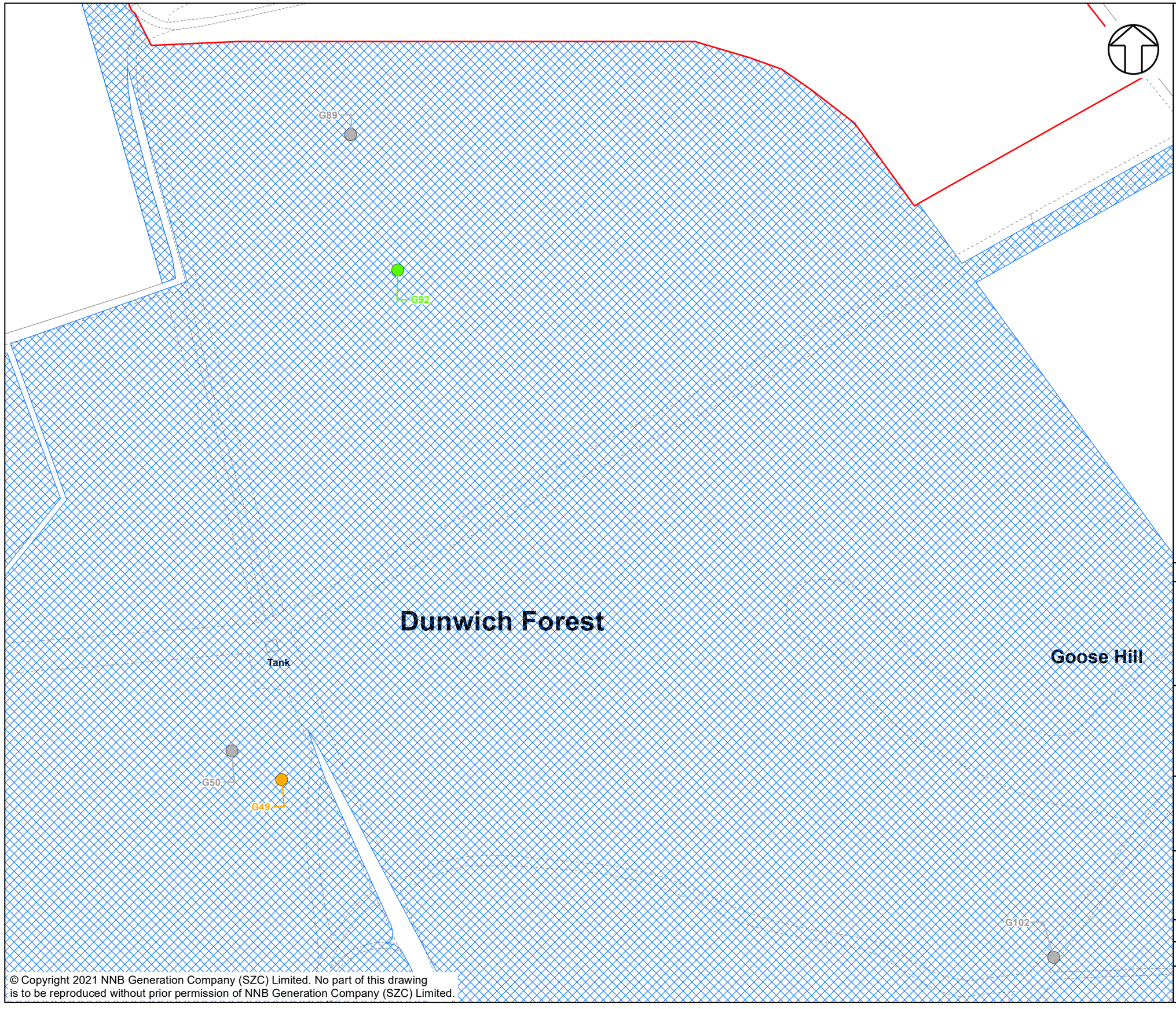


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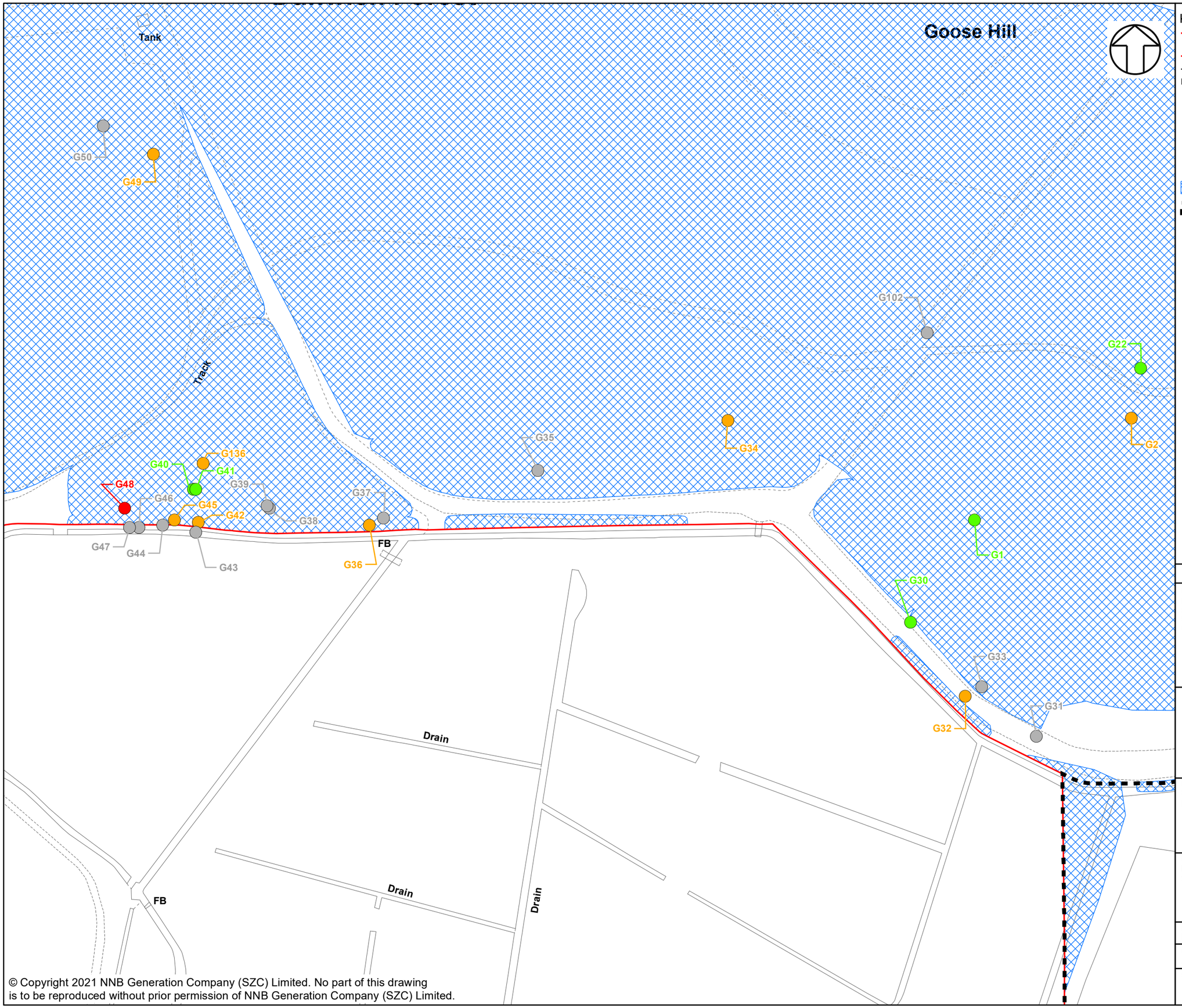


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FIGURE 1

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| JUNE 2021 | Y.G. | 1:1,500 @A3 | DRAFT |

SCALE BAR
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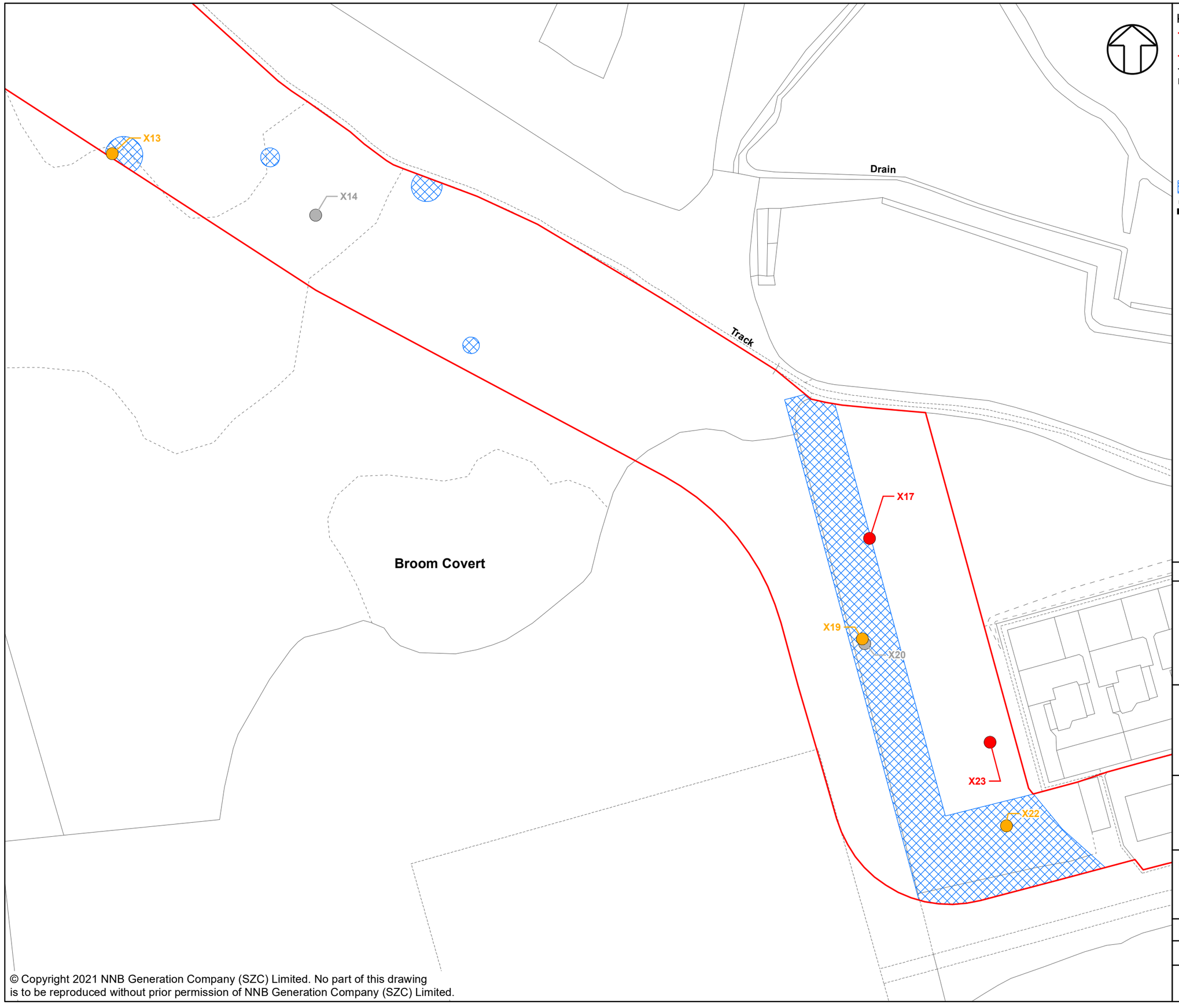


KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

**TREES SURVEYED WITHIN VEGETATION REMOVAL ZONES**

- HIGH POTENTIAL
- MODERATE POTENTIAL
- LOW POTENTIAL
- CONFIRMED ROOST
- NEGLIGIBLE POTENTIAL
- PLANNED VEGETATION REMOVAL
- SIZEWELL MARSHES SSSI (UNABLE TO ACCESS FOR GLTA/AERIAL INSPECTIONS)

NOT PROTECTIVELY MARKED



SizewellC
Doing the power of good for Britain
EDF CGN

DOCUMENT:
SIZEWELL C
MAIN DEVELOPMENT SITE
TREE ROOST INSPECTION REPORT 2021

DRAWING TITLE:
BAT ROOST INSPECTION RESULTS 2021
SHEET 11 OF 14

DRAWING NO:
FIGURE 1

| DATE: | DRAWN: | SCALE : | REV: |
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| JUNE 2021 | Y.G. | 1:1,500 @A3 | DRAFT |

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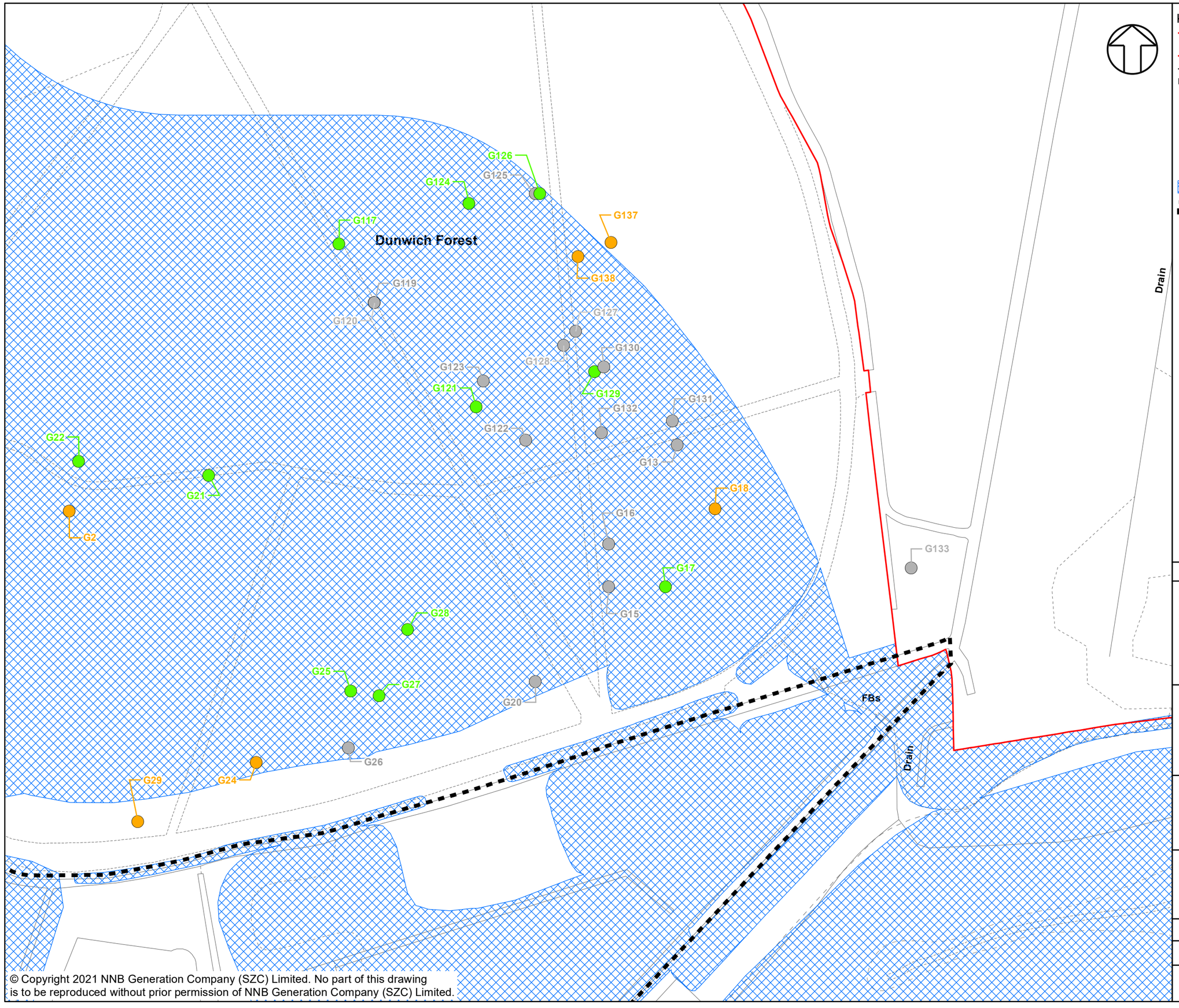


KEY

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DRAWING TITLE:
BAT ROOST INSPECTION RESULTS 2021
SHEET 12 OF 14

DRAWING NO:
FIGURE 1

| DATE: | DRAWN: | SCALE : | REV: |
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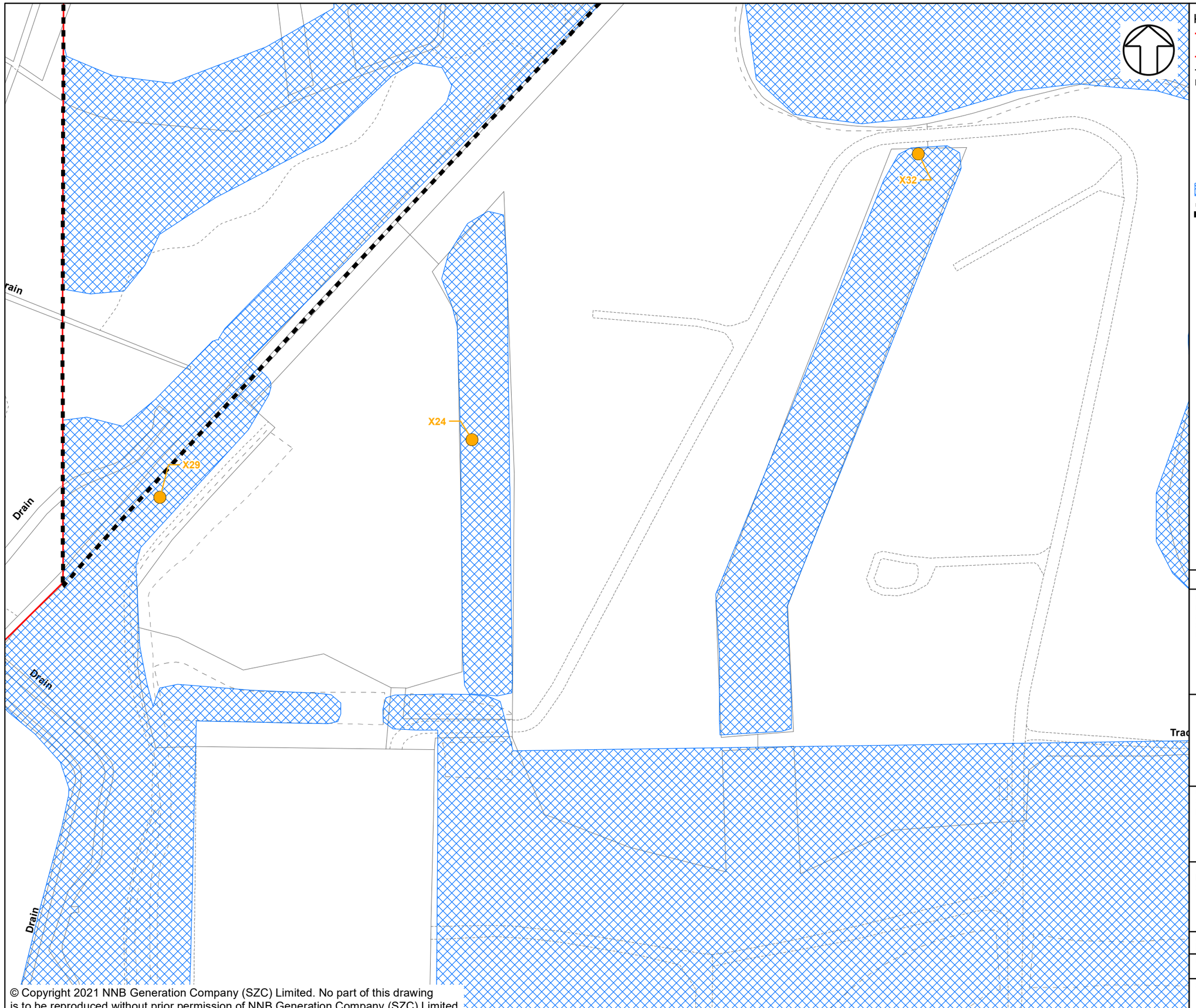


KEY

- SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY
- DEMARCATION LINE

**TREES SURVEYED WITHIN VEGETATION REMOVAL ZONES**

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BAT ROOST INSPECTION RESULTS 2021
SHEET 13 OF 14

DRAWING NO:
FIGURE 1

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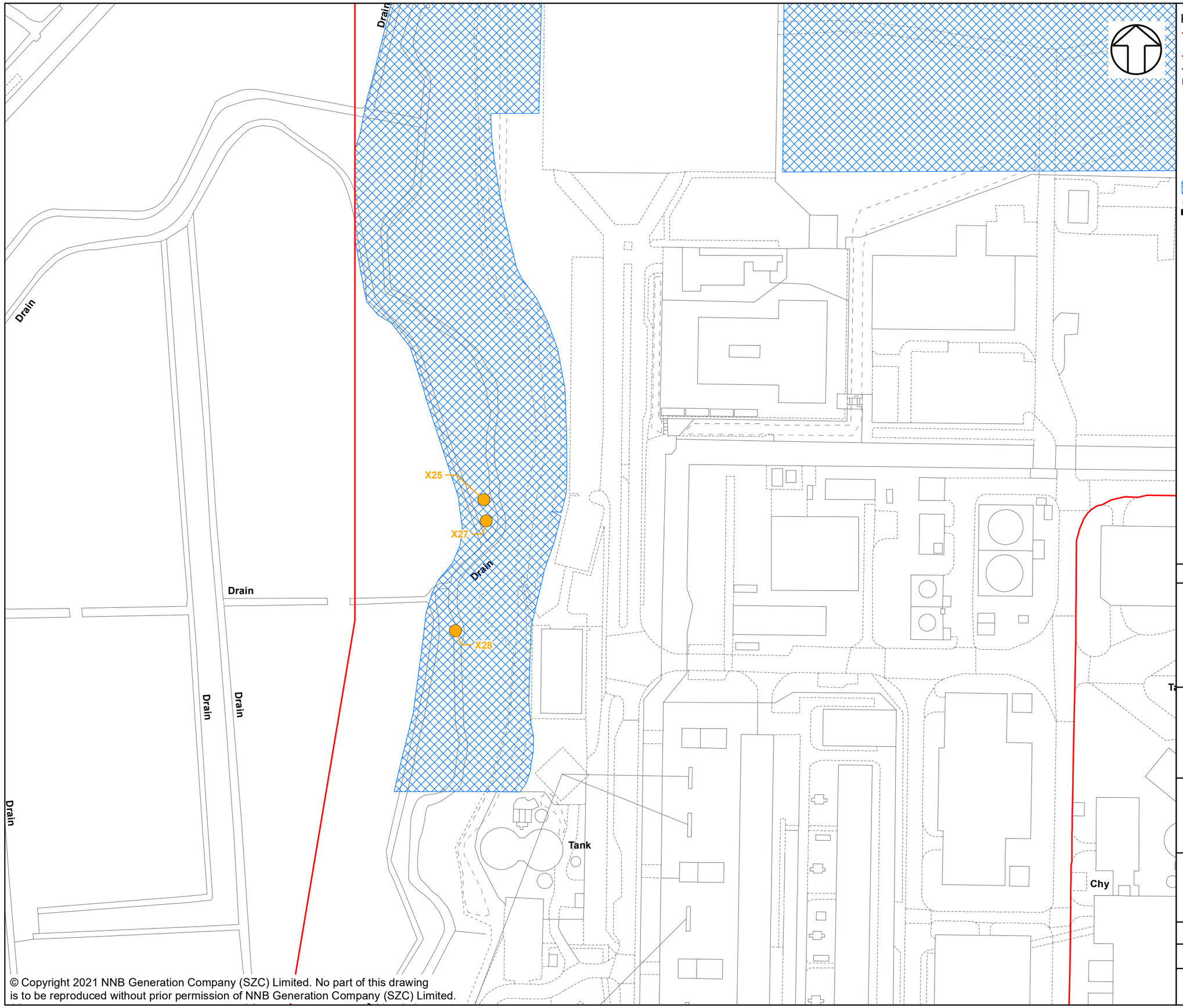


KEY

SIZEWELL C MAIN DEVELOPMENT SITE BOUNDARY

DEMARCATION LINE

**TREES SURVEYED WITHIN VEGETATION REMOVAL ZONES**

- HIGH POTENTIAL
- MODERATE POTENTIAL
- LOW POTENTIAL
- CONFIRMED ROOST
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BAT ROOST INSPECTION RESULTS 2021
SHEET 14 OF 14

DRAWING NO:
FIGURE 1

| DATE: | DRAWN: | SCALE : | REV: |
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| JUNE 2021 | Y.G. | 1:1,500 @A3 | DRAFT |

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# APPENDIX B: TREE INSPECTION RAW DATA

**Table 1: Results of 2021 bat tree roost inspections of moderate and high potential trees within the vegetation removal zones of the main development site**

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| K61 | Pedunculate Oak, Mature, 1.2m diameter, 22m high, Single stem | Pruning Cut, between 2m - 4m, South, Stem - X4 pruning cuts | Moderate | High | Endoscope from ground | No entrance or internal crevice/cavity | Negligible | Moderate | None |
| | | Knot Hole, 2m, North-West, Stem | Moderate | | Endoscope from ground | External: 12cm high, 10cm wide, Internal: 20cmx20cmx20cm, Smooth substrate, Point, Open to predators - Multi chambered feature, open entrance | Moderate | | |
| | | Transverse Snap, 5.5m, South, Limb | Moderate | | Climbing | No entrance or internal crevice/cavity | Negligible | | |
| | | Hazard Beam, 5m, South, Limb | Moderate | | Climbing | No entrance or internal crevice/cavity | Negligible | | |
| | | Impact Shatter, 3.5m - 4m, North-East, Stem - X2 impact shatter, one north east one south west | Moderate | | Climbing | No entrance or internal crevice/cavity | Negligible | | |
| K62 | Pedunculate Oak, Mature, 1.3m diameter, 20m high, Single stem | Pruning Cut, 2.5m, South-East, Stem - X2 pruning cuts. Gaps between bark. | Moderate | High | Climbing | Negligible, no crevices or cavities | Negligible | Moderate | None |
| | | Lifting Bark, 2.5m - 10m, East, Stem - Loose bark is present on the east side of two main stems. | High | | Climbing | No crevices or cavities behind - either too open or too narrow, however peeling bark is v changeable | Low | | |
| | | Impact Shatter, 8m, East, Limb - Fairly exposed. Pointing upwards | Moderate | | Climbing | No PRF within shatter | Negligible | | |
| | | Hazard Beam, 5m, South, Limb - Hazard beam on limb pointing west. | Moderate | | Climbing | External: 3cm, 20cm, Internal: 3cm, 20cm, 10cm. Jagged, Wedge - Multiple fissure cracks with day roost potential | Moderate | | |
| | | Knot Hole, 10m, West, Limb - Small knot hole visible from west side of tree | Moderate | | Climbing | No crevice or chamber - superficial entrance | Negligible | | |
| | | Impact Shatter, 3m - 17m, South, Limb - A number of impact shatters (>10) all around tree at various heights. | Moderate | | Climbing | All negligible with no crevices extending in | Negligible | | |
| G1 | Pine, Mature, 30cm diameter, 25m high, Single stem | Compression Fork, 13m, South-East, Stem | Moderate | Moderate | Ground with binoculars | Can see back of crevice, could support single bat as day roost | Low | Low | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| G2# | Pine, Mature, 40cm diameter, 25m high, Single stem | Compression Fork, 12m, North, Stem | Moderate | Moderate | Ground with binoculars | Unable to climb | Moderate | Moderate | Unable to survey further |
| G13 | Pine Semi-Mature, 40cm diameter, 25m high, Single stem | Compression Fork, 7m, North, Stem - Small cavity at top of compression fork | Moderate | Moderate | Climbing | No entrance or internal crevice/cavity | Negligible | Negligible | None |
| G15 | Pine, Semi-Mature, 30cm diameter, 25m high, Single stem, | Compression Fork, 7m, West, Stem | Moderate | Moderate | Ground with binoculars | No cavity, v wide entrance. Less than low potential based on surrounding woodland. | Negligible | Negligible | None |
| G16 | Pine, Semi-Mature, 30cm diameter, 25m high, Single stem | Compression Fork, 18m, South, Stem | Moderate | Moderate | Ground with binoculars | No cavity or crevice | Negligible | Negligible | None |
| G17 | Pine, Semi-Mature, 30cm diameter, 20m high, Single stem | Impact Shatter, 16m, West, Limb - Broken limb has rot on the inside. | Moderate | Moderate | Ground with binoculars | No upwards cavity, may have cavity downwards - very limited potential for bats | Low | Low | None |
| G18# | Pine, Semi-Mature, 30cm diameter, 25m high, Single stem | Compression Fork, 14m, South-West, Stem, Cavity hole at bottom of compression fork | Moderate | Moderate | Ground with binoculars | Potential for cavity at base | Moderate | Moderate | Unable to survey further |
| G20 | Pine, Semi-Mature, 30cm diameter, 25m high, Single stem | Compression Fork, 13m, East, Stem - Cavity hole at bottom of open compression fork. | Moderate | Moderate | Ground with binoculars | No cavity or crevice, looks very wet | Negligible | Negligible | None |
| G21 | Pine, Semi-Mature, 50cm diameter, 25m high, Single stem | Compression Fork, 4m, North-East, Stem, Cavity hole at bottom of open compression fork. | Moderate | Moderate | Endoscope from ladder | Dry, Wedge - Open wedge in compression fork, crevice at base. Two features with crevices with potential for day roost. | Low | Low | None |
| G22 | Pine, Semi-Mature, 85cm diameter, 25m | Impact Shatter, 10m, East, Limb - Limb is shattered laterally to around 50cm from stem | Moderate | Moderate | Climbing | Open wedge could be used as day roost | Low | Low | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | high, Single stem | Impact Shatter, 9m, South-East, Limb - Large limb shattered | Moderate | | | No PRF | Negligible | | |
| | | Transverse Snap, 17m, North-East, Limb - Just above first prf. Limb has snapped and is hanging vertically down leaving potential cavities behind | Low | | | No PRF | Negligible | | |
| | | Transverse Snap, 18m, South-East, Limb - Limb is pointing south west but PRF facing south east | Low | | | | Low | | |
| | | Impact Shatter,11m, South-East, Limb - Limb is above and in between the first 2 PRF | Low | | | No PRF | Negligible | | |
| | | Tear Outs, 10m, West, Stem - Not likely to be a PRF but cannot rule out from the ground | Low | | | No PRF | Negligible | | |
| G24# | Pine, Semi-Mature, 40cm diameter, 25m high, Single stem | Compression Fork, 10m, West, Stem | Moderate | Moderate | Ground with binoculars | Potential split and cavity | Moderate | Moderate | Unable to survey further |
| G25 | Pine, Semi-Mature, 40cm diameter, 25m high, Single stem | Compression Fork, 12m, South, Stem - Looks like a small hole in split | Moderate | Moderate | Ground with binoculars | Potential very narrow gap between stems; single bat | Low | Low | None |
| G26 | Pine, Semi-Mature, 40cm diameter, 25m high, Single stem | Compression Fork, 12m, North-West, Stem - Looks like a small hole in split | Moderate | Moderate | Ground with binoculars | No crevice or gap between fork | Negligible | Negligible | None |
| G27 | Pine, Semi-Mature, 40cm diameter, 25m high, Single stem | Compression Fork, 16m, South, Stem - Debris within split | Moderate | Moderate | Ground with binoculars | Potential narrow gap between two stems; cavity unlikely, potential to support single bat | Low | Low | None |
| G28 | Pine, Semi-Mature, 40cm diameter, 25m | Compression Fork, 16m, South, Stem - Small hole at bottom of fork | Moderate | Moderate | Ground with binoculars | Dark area visible below fork | Low | Low | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | high, Single stem | | | | | | | | |
| G29 | Oak, Semi-Mature, 80cm diameter, 15m high, Single | Impact Shatter, 5m, South-East, Limb - On south east facing limb | Moderate | High | Endoscope from ladder | Internal: 1.5cm, 4cm, 5cm. Smooth, Dry, Point. | Moderate | Moderate | None |
| | | Impact Shatter, 1.5m, South-West, Limb - On south west facing limb | Moderate | | Endoscope from ground | External: 4cm, 5cm, Internal: 3cm, 4cm, 7cm. Smooth, Dry, Point - Various fescue splits where a pip could squeeze into, day roost only | Low | | |
| | | Subsistence Split, 1m, South-West, Limb, On south west facing limb | Moderate | | Endoscope from ground | No PRF | Negligible | | |
| | | Subsistence Split, 6m, North-West, Limb - On south west facing limb | Moderate | | Climbing | No PRF | Negligible | | |
| | | Transverse Snap, 5m, South-West, Limb - On south west facing limb | Moderate | | Climbing | External: 1cm, 8cm, Internal: 1cm, 8cm, 4cm. Smooth, Dry, Wedge, Day roost only | Low | | |
| | | Impact Shatter, 7m, South-East, Limb - On south east facing limb | Moderate | | Climbing | No PRF | Negligible | | |
| | | Tear Outs, 10m, South, Limb - On south east facing limb | Moderate | | Climbing | No clear drop zone, can't access from climbing also hard for a bat to access | Low | | |
| | | Tear Outs, 8m, South, Stem | Moderate | | Climbing | No PRF | Negligible | | |
| G30 | Pine, Semi-Mature, 60cm diameter, 20m high, Single | Welds, 8m, West, Stem | Moderate | Moderate | Ground assessment binoculars | Welds were well sealed, filled with debris - potential for conditions to change if debris moves hence low not neg. | Low | Low | None |
| G31 | Silver birch, Semi-Mature, 50cm diameter, 15m high, Single stem | Knot Hole, 2.5m, West, Stem - 2x knot holes next to each other, one facing south one facing south east | Moderate | Moderate | Endoscope from ground | No internal features to both knotholes | Negligible | Negligible | None |
| | | Tear Outs, 8m, East, Stem, Long vertical tear out with hole at top | Moderate | | | | Negligible | | |
| G32 | Dead, 10cm diameter, 10m high, Single stem | Impact Shatter, 6m, South, Stem – Long vertical split down dead stem | Moderate | Moderate | Ground assessment binoculars | Stem split considered negligible - feature is hollow cavity behind plate, facing west above last limb | Moderate | Moderate | Unable to climb due to tree health but no limitation considered to overall potential assessment |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| G33 | Dead, 10cm diameter, 10m high, Single stem | Impact Shatter, 4m, South, Stem – Long vertical split down dead stem | Moderate | Moderate | Ground assessment | Split is too narrow to support bats along whole length | Negligible | Negligible | None |
| G34# | Pine, Semi-Mature, 30cm diameter, 15m high, Single stem | Compression Fork, 10m, North, Stem - Hole at bottom of compression fork | Moderate | Moderate | Unable to fully assess | | Moderate | Moderate | Unable to survey further |
| G35 | Pine, Mature, 70cm diameter, 20m high, Single stem | Welds, 7m, South, Stem | Moderate | Moderate | Ground assessment | Welds inspected with binoculars - completely sealed with no sign of decay to create cavities or crevices | Negligible | Negligible | None |
| G36# | Alder, Mature, 60cm diameter, 8m high, Multi | Lifting Bark, 2m, South-East, Limb - Lifting bark on branch over water | Moderate | Moderate | Unable to climb | Too wet along ditch, unable to access for further survey | Moderate | Moderate | Unable to survey further |
| G37 | Alder, Mature, 60cm diameter, 10m high, Single stem | Impact Shatter, 2m, South-East, Limb - Impact shatter decayed on limb | Moderate | Moderate | Endoscope from ground | Able to visually assess - no PRF, only superficial decay | Negligible | Negligible | None |
| G38 | Alder, Mature, 60cm diameter, 10m high, Multi | Impact Shatter, 2m, North-West, Limb - Impact shatter decayed on limb | Moderate | Moderate | Endoscope from ground | No PRF - looks to have decayed further as there is no entrance or crevice | Negligible | Negligible | None |
| G39 | Mature, 80cm diameter, 20m high, Single stem | Knot Hole, 10m, South-East, Stem | Moderate | Moderate | Binoculars from ground | Feature is superficial - does not lead to a suitable roost feature. | Negligible | Negligible | None |
| G40 | Alder, Semi-Mature, 40cm diameter, 20m high, Multi | Lifting Bark, 2.5m, North, Limb | Moderate | Moderate | Endoscope from ground | No bark plates with crevices, flaking off | Negligible | Low | None |
| | | Knot Hole, 2.4m, North, Limb - Just below the loose bark around snap | Moderate | | Endoscope from ground | External: 4cm, 4cm, Internal: 6cm, 6cm, 1.5m. Bumpy, Damp, Dome, Extends in to hollow stem, very open entrance and water running through | Low | | |
| | | Impact Shatter, 2.2m, North, Stem - Gaps within snap | Moderate | | Endoscope from ground | No cavities or crevices, all open splits | Negligible | | |
| G41 | Alder, Semi-Mature, 40cm diameter, 18m high, Multi | Transverse Snap, 1m, South, Stem, One of the stems has fallen exposing a large cavity running through the centre. | Moderate | Moderate | Endoscope from ground | External: 5cm, 3cm, Internal: 10cm, 10cm, 30cm. Ragged, Dry, Dome, Mouse nest within. Very open entrance, no crevice | Low | Low | None |
| G42# | Alder, Mature, 50cm diameter, 18Multi | Knot Hole, 10m, North-East, Stem - Rotten branch still remaining in knothole. | Moderate | Moderate | Unable to climb | No suitable access points to climb, too high for ladder - emergence/re-entry | Moderate | Moderate | Unable to survey further |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | | Potential cavity at the bottom | | | | | | | |
| G43 | Alder, Mature, 50cm diameter, 20m high, Multi | Tear Outs, 6m, North, Stem - Fairly hidden. Located on the stem which overhangs the ditch. Hole at the top of the tear | Moderate | Moderate | Endoscope from ladder | External: 10cm, 5cm. No internal cavity or crevice | Negligible | Negligible | None |
| G44 | Alder, Semi-Mature, 15cm diameter, 20m high, Multi | Knot Hole, 4m, East, Stem - X2 knotholes on thinner stem. | Moderate | Moderate | Endoscope from ground | Both knotholes are superficial | Negligible | Negligible | None |
| G45 | Alder, Semi-Mature, 15cm diameter, 20m high, Multi | Knot Hole, 6m, South-West, Stem - Knothole on stem leaning away from the ditch | Moderate | Moderate | Endoscope from ladder | Superficial feature, no crevices or cavities - hits internal wood | Negligible | Negligible | None |
| | | Lifting Bark, 5m, South, Stem - Dead branch overhanging ditch with lifting bark and a number of cavities. | Moderate | | Unable to climb and access | Unable to access due to being over water - flooded at time of survey | Moderate | Moderate | Unable to survey further |
| G46 | Alder, Semi-Mature, 15cm diameter, 17m high, Multi stem | Transverse Snap, 6m, North-West, Stem - Stem which grows towards the east has snapped halfway up. | Moderate | Moderate | Ground assessment | Snapped limb has broken further - exposed upwards and is negligible | Negligible | Negligible | None |
| G47 | Alder, Semi-Mature, 30cm diameter, 15m high, Multi stem | Impact Shatter, 2m, North, Limb - Dead limb which is hollow. Cannot see all the way into cavity. | Moderate | Moderate | Endoscope from ground | Hollow limb far too open for roosting bats, contains bird nesting material | Negligible | Negligible | None |
| G48 | Pine, Mature, 80cm diameter, 25m high, Single stem | Lighting Strike, 4m, North-East, Stem - Rotting deadwood and lifting bark in centre of stem. | Moderate | Moderate | Endoscope from ladder | External: 15cm, 10cm, Internal: 50cm, 20cm, 15cm. Bumpy, Damp, Point - Highest entrance leads upwards within stem approx. 50cm | High | High | None |
| G49 | Pine, Mature, 1.1m diameter, 23m high, Single stem | Dessication Fissure, 5m, North-East, Limb - Dead broken limb has large lateral fissure. | Moderate | Moderate | Endoscope with ladder | External: 15cm, 5cm. Other features unsuitable - superficial. | Negligible | Negligible | None |
| | | Tear Outs, 5m, North, Stem - Tear out in main stem. Exposed and likely to have no cavity. | Low | | Endoscope with ladder | No PRF | Negligible | | |
| G50 | Pine, Mature, 1m diameter, 25m high, Single stem | Lifting Bark, 4m, West, Stem, Loose bark inside tear out. Tear out doesn't appear to have cavities. | Moderate | Moderate | Ground assessment | Additional ground assessment re-classified both features as negligible. | Negligible | Negligible | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | | Hazard Beam, 19m, North, Limb - Snapped limb | Moderate | | | Additional ground assessment re-classified both features as negligible. | Negligible | | |
| G89 | Pine, Semi-Mature, 60cm diameter, 25m high, Single stem | Impact Shatter, 12m, North-West, Limb | Moderate | Moderate | Ground assessment | Further ground assessment reclassified impact shatter as negligible | Negligible | Negligible | None |
| G92 | Pine, Dead, 60cm diameter, 5m high, Single stem | Woodpecker hole, 4m - 5m, West, Stem | Moderate | Moderate | Endoscope from ladder | Woodpecker hole is negligible, lifting bark at 4m west is low. | Low | Low | None |
| G102 | Semi mature, 0.4m diameter, 14m high, Multi stem | Tear Outs, 4m, South-West, Stem - Inspected on a back tracking survey, cavity does extend upwards however cannot see to end. Cavity between dead and living tissue | Moderate | Moderate | Endoscope from ladder | No PRF | Negligible | Negligible | None |
| G103 | Semi-mature, 0.2m diameter, 10m high, Multi stem | Hazard Beam, 2m, South-West, Stem - Cavity extends upwards although can't see to end. Need endoscope with small head. | Moderate | Moderate | Ground assessment | No PRF | Negligible | Negligible | None |
| G104 | Semi-mature, 0.4m diameter, 4m high, Single stem | Wounds, 1.5m, North-East, Stem - Cavity in dead stem from 1.5-3m high, fully enclosed at top and complex as dead heart wood still present. Cannot see all aspects of cavity. Endoscope from ground with small head endoscope | Moderate | Moderate | Endoscope from ground | No PRFs | Negligible | Negligible | None |
| G105 | Pine, Mature, 0.6m diameter, 20m high, Single stem | Wound, 6m, South, Limb - Cavity in limb which looks like it extends in. Limb extends to southwest | Moderate | Moderate | Climbing | No cavities or crevices within deadwood, woodlice | Negligible | Negligible | None |
| G106 | Dying, 0.2m diameter, 3.5m high, Single stem | Lifting Bark, 0.5-3.5m, Stem - On all aspects of tree | Low | Moderate | Endoscope from ground | Peeling bark offers few crevices or bark plates but may change over time | Low | Low | None |
| | | Wound, 1-3.5m, Stem - Hollow main stem which extends up and down, exposed but areas with potential | Moderate | | Endoscope from ground | Completely hollow stem, open at top to elements - overly spacious inside | Negligible | | |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| G107 | Holm oak, Semi mature, 0.25m diameter, 10m high, Single stem | Wound, 2m, Stem, Cavity extends 15cm where dead limb meets main stem | Moderate | Moderate | Endoscope from ground | No PRF - cavity is open at each end and too exposed for bats, very loose bark has probably degraded over time | Negligible | Negligible | None |
| G108 | Pine, Dead | Hollowed out with potential cavity leading up. Starts at base on N side. | Moderate | Moderate | Ground with binoculars | No PRFs | Negligible | Negligible | None |
| G111 | Pine | | Moderate | Moderate | Ground with binoculars | No PRFs | Negligible | Negligible | None |
| G112 | Pine | | Moderate | Moderate | Ground with binoculars | No PRFs | Negligible | Negligible | None |
| G114 | Pine | | Moderate | Moderate | Ground with binoculars | No PRFs | Negligible | Negligible | None |
| G117 | Pine, Semi mature, 0.3m diameter, 15m high, Single stem | Compression Fork, 7m, north-West, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground assessment | Potential for cavity | Low | Low | None |
| G119 | Pine, Semi mature, 0.4m diameter, 15m high, Single stem | Compression Fork, 7m, East, Stem - Compression fork with potential cavity | Moderate | Moderate | Climbing | No cavities | Negligible | Negligible | None |
| G120 | Pine, Semi mature, 0.4m diameter, 15m high, Single stem | Compression Fork, 7m, North-East, Stem, Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | Negligible from ground - no crevices or cavities | Negligible | Negligible | None |
| G121 | Pine, Semi mature, 0.25m diameter, 18m high, Single stem | Compression Fork, 8m, East, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | Potential crevice visible from ground | Low | Low | None |
| G122 | Pine, Semi mature, 0.25m diameter, 18m high, Single stem | Compression Fork, 6m, East, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | No cavity or crevice at base | Negligible | Negligible | None |
| G123 | Pine, Semi mature, 0.4m diameter, 18m | Compression Fork, 3m, North east, Stem - | Moderate | Moderate | Endoscope from ladder | Depression at base of compression fork, no crevice or cavity for a bat - too open | Negligible | Negligible | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | high, Single stem | Compression fork with potential cavity | | | | | | | |
| G124 | Pine, Semi mature, 0.75m diameter, 20m high, Single stem | Compression Fork, 2m, North, Stem - Compression fork with potential cavity | Moderate | Moderate | Endoscope from ground | External: 4cm, 2cm, Internal: 4cm depth. Wedge - Low potential for pipistrelle summer day roost | Low | Low | None |
| | | Compression Fork, 4m, North east, Stem - Compression fork with potential cavity | Moderate | Moderate | Endoscope from ladder | No crevices | Negligible | | |
| G125 | Pine, Semi mature, 0.5m diameter, 20m high, Single stem | Compression Fork, 5m, North-west, Stem - Compression fork with potential cavity | Moderate | Moderate | Endoscope from ladder | No crevices | Negligible | Negligible | None |
| G126 | Pine, Semi mature, 0.5m diameter, 24m high, Single stem | Compression Fork, 10m, North-west, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground assessment with binoculars | Potential cavity at base facing north east | Low | Low | None |
| G127 | Pine, Semi mature, 0.4m diameter, 22m high, Single stem | Compression Fork, 9m, South, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | No PRFs | Negligible | Negligible | None |
| G128 | Pine, Semi mature, 0.4m diameter, 22m high, Single stem | Compression Fork, 12m, East, Stem - Compression fork with potential cavity | Moderate | Moderate | Negligible | Negligible | Negligible | Negligible | None |
| G129 | Pine, Semi mature, 0.3m diameter, 22m high, Single stem | Compression Fork, 12m, East, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | Potential cavity | Low | Low | None |
| G130 | Pine, Semi mature, 0.3m diameter, 20m high, Single stem | Compression Fork, 10m, South east, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | No openings or crevices | Negligible | Negligible | None |
| G131 | Pine, Semi mature, 0.5m diameter, 24m high, Single stem | Compression Fork, 7m, South, Stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | No openings or crevices | Negligible | Negligible | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| G132 | Pine, mature, 0.5m diameter, 24m high, single stem | compression fork, 13m, south east, stem - Compression fork with potential cavity | Moderate | Moderate | Ground with binoculars | Very open wedge visible, unsuitable conditions for even a single bat | Negligible | Negligible | None |
| G133 | Pine, Mature, 0.5m diameter, 24m high, Single stem | Compression fork, 10m, South, Stem - Compression fork with potential cavity | Moderate | Moderate | Negligible | Negligible | Negligible | Negligible | None |
| G134 | Silver birch, Semi mature 0.4m diameter,15m high, Single stem | Split stem, East, Stem - Stem split at base - cavity inside | Moderate | Moderate | Endoscope from ground | External: 30cm, 4cm, Internal: 30cm, 4cm, 20cm. Jagged, Dry, Wedge, Suitable hibernation roost | Moderate | Moderate | None |
| G135# | Silver birch, Semi mature, 0.3m diameter, 15m high, Single stem | Transverse snap, 5m, West, Stem, Cavity runs up east facing limb | Moderate | Moderate | Unable to climb due to tree health. | | Moderate | Moderate | Unable to survey further. |
| G136 | Elm, Semi mature, 0.2m diameter, 5m high, Single stem, | Flute, 1m, North, Stem - Cavity runs upwards in stem | Confirmed roost | Confirmed roost | Endoscope from ground | External: 12cm, 4cm, Internal: 15cm, 3cm, 3cm. Rough, Dry, Point - Myotis – Natterer's. | Confirmed roost | Confirmed roost | None |
| G137# | Pine, Dead, 0.35m diameter, 9m high, Single stem | Woodpecker hole, 8m, North west, Stem, Multiple woodpecker holes on stem, one larger hole high on stem | Moderate | Moderate | Unable to climb due to tree health. | | Moderate | Moderate | Unable to survey further |
| G138# | Pine, Dead, 0.4m diameter, 3m high, Single stem | Tear out, 2.5m, South, Stem - Top of stem is torn off, crevice running down on south - suitable summer roost for 2/3 pips. | Moderate | Moderate | Unable to climb due to tree health. | | Moderate | Moderate | Unable to survey further |
| G139# | Pine, Dead, 0.6m diameter, 6m high, Single stem | Plate, 4.5m, West, Stem - All features located on standing dead pine - on edge of track, lightning strike | Moderate | Moderate | Unable to climb due to tree health. | | Moderate | Moderate | Unable to survey further |
| | | Linear crack, 1-5m, West, Stem - All features located on standing dead pine - on edge of track, lightning strike | Moderate | | | | Moderate | | |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
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| | | Lifting bark, 0-5m, North, Stem - All features located on standing dead pine - on edge of track, lightning strike | Moderate | | | | Moderate | | |
| F25 | Black pine | Lifting Bark, 1-6m, South-East, Stem - At least 6 small cavities beneath bark, between 1-6m high all around lower stem. One very nice cavity on SE of stem | Moderate | Moderate | Endoscope from ladder | No crevices behind bark with potential - all superficial | Negligible | Negligible | None |
| F42 | Sycamore | Woodpecker hole, 7m, South-East, Stem - Cavity looks extensive cannot see from ground. | High | High | Climbing | External: 30cm, 5cm, Internal: 40cm, 10cm, 12cm. Smooth, Damp, Dome, Squirrel nest. Two features join - woodpecker hole is base of cylindrical chamber | Low | Low | None |
| | | Wounds, 8m, East, Stem, Cavity looks extensive cannot see from ground. | High | | Climbing | | | | |
| F50 | Pedunculate Oak | Pruning Cut, 3m, North, Stem - 2x pruning cuts with 0.5m of each other. Cavity between living and dead tissue, could be extensive on the pruning cut lower down. Hard to see on pruning cut which is located higher. | Moderate | High | Climbing | All features negligible with no cavities, only superficial entrances. Peeling bark considered low due to potential to change over time | Low | Low | None |
| | | Lifting Bark, 7m, North, Limb - On west facing limb. Lifting bark all around dead stem. 5m from main stem on limb. | High | | Climbing | All features negligible with no cavities, only superficial entrances. Peeling bark considered low due to potential to change over time | | | |
| | | Wounds, 15m, North, Limb - Dead limb with tear out and north facing cavities leading to gap behind lifting bark. | Moderate | | Climbing | All features negligible with no cavities, only superficial entrances. Peeling bark considered low due to potential to change over time | | | |
| | | Dessication Fissure, 8m, South, Limb - North west facing dead limb, most of which are facing upwards and greater than 1cm wide | Moderate | | Climbing | All features negligible with no cavities, only superficial entrances. Peeling bark considered low due to potential to change over time | | | |
| | | Lifting Bark, 11-15m, North, Limb - Flaking bark all around dead limb. | Moderate | | Climbing | All features negligible with no cavities, only superficial entrances. Peeling bark considered low due to potential to change over time | | | |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
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| | | Wounds, 13m, South-East, Limb - Upwards facing cavity into limb. | Moderate | | Climbing | All features negligible with no cavities, only superficial entrances. Peeling bark considered low due to potential to change over time | | | |
| F52 | Pedunculate Oak | Impact Shatter, 16m, North-East, Stem | Moderate | Moderate | Ground level assessment | Inspected with binoculars from ground - feature does not extend to cavity, split in wood only | Negligible | Negligible | None |
| F53# | Lime | Transverse Snap, 5m, North-East, Limb - Limb and hole facing north east. | Moderate | Moderate | Unable to climb – no suitable access points. | | Moderate | Moderate | Unable to survey further |
| | | Transverse Snap, 7-8m, North, Limb - On north facing limb,2x transverse snap on same limb, both have cavities | Moderate | | | | Moderate | | |
| F55 | Pedunculate Oak | Pruning Cut, 2m, North-West, Stem - Possible cavity between living and dead tissue. May extend in. | Low | Moderate | Climbing | All features have negligible potential, however the tree has changeable features - peeling bark may change in near future hence low potential. | Low | Low | None |
| | | Tear Outs, 11m, North-East, Limb - Cavity extends into limb. | Moderate | | Climbing | | | | |
| | | Knot Hole, 15m, North, Limb - On south east facing limb | Moderate | | Climbing | | | | |
| F57 | Horse Chestnut | Tear Outs, 3.5m, North-West, Stem, Large tear. Doesn't appear to lead into a cavity looking from ground. | Low | Moderate | From ground | No PRF - opening does not lead anywhere. Oval knot hole on small limb north facing at 1m - low potential. | Low | Low | None |
| F58 | Pedunculate Oak | Flute, 1.5m, South, Stem, Flute/tear out with cavity leading up stem. | Moderate | Moderate | Endoscope from ground | External: 20cm, 4cm, Internal: 20cm, 3cm, 15cm. Smooth, Dry, Point, New feature identified | Moderate | Moderate | None |
| F59 | Sycamore | Wound, 6m, East, Stem, Open wound with bark occluding round edges | Moderate | Moderate | Climbed inspection | External: 10cm, 10cm, Internal: 4cm, 2cm. Smooth, Dry, Point, New feature identified - plate within wound goes upwards | Moderate | Moderate | None |
| F60 | Alder | Flute with rams horns, 0-2m, South, Stem, Open hollow stem leading to cavity | Moderate | Moderate | Endoscope from ground | External: 4cm, 4cm, Internal: 1m, 4cm, 4cm. Smooth, Damp, Point, Snails present. New feature identified | Moderate | Moderate | None |
| AF1 | Pine, Mature, 75cm diameter, 14m high, Single stem | Woodpecker hole, 6m- 7m, East, Stem - X3 woodpecker holes. | Moderate | High | Climbed inspection | External: 3cm, 2cm, Internal: 15cm, 1.5cm, 1.5cm. Jagged, Damp, Wedge. Only lowest woodpecker hole had potential. Top one could be little owl nest. | Low | Low | None |
| | | Impact Shatter, 3m - 10m, South, Limb - X 5 impact shatters all up and around stem. | High | | | All negligible - no cavities. | Negligible | | |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | | Tear Outs, 13m, South-West, Stem - Large tear out. Possibly hazard beam but unable to see from ground. | High | | | All negligible - no cavities. | Negligible | | |
| | | Tear Outs, 13m, South-East, Stem - Another large tear out | High | | | All negligible - no cavities. | Negligible | | |
| AF2 | Sweet Chestnut, Over-Mature, 1.2m diameter, 18m high, Single stem | Woodpecker hole, 10m, South-West, Limb - X3 woodpecker holes. X2 on dead limb. The third is on the 'living' stem pointing north east. | High | High | Climbing | External: 5cm, 4cm, Internal: 4cm, 4cm, 10cm. Smooth, Dry, Dome - No crevice or cavity within hole, wood within could deteriorate | Low | Low | None |
| | | Impact Shatter, 4m - 16m, North-East, Limb - ~ 7 impact shatters on decaying branches. Most are on the north east side of tree. | Moderate | | Climbing | No cavities to measure as PRFs | Negligible | | |
| | | Lifting Bark, 9m, North-East, Stem, Large plate of lifting bark on decaying stem | Moderate | | Climbing | No cavities to measure as PRFs, however peeling bark has potential to change over time | Low | | |
| AF4 | Pedunculate Oak, Mature, 85cm diameter, 10m high, Single stem | Tear Outs, 2m, West, Stem, Large tear out. Possible subsistence split. | Moderate | Moderate | Endoscope | External: 4cm, 2cm, Internal: 4cm, 2cm, 3cm. Bumpy, Damp, Dome, Inverts present - One small cavity - no potential | Negligible | Moderate | None |
| | | Tear Outs, 2m, South, Stem - X2 knot holes on same stem | Moderate | | Endoscope | External: 5cm, 50cm, Internal: 4cm, 5cm, 40cm. Smooth, Dry, Point - Crevice continues along limb to east - eventually some daylight is visible. | Moderate | | |
| | | Impact Shatter, 2m, North, Limb - Impact shatter on north side of tree. Gap at bottom. | Moderate | | Endoscope | External: 1cm, 30cm, Internal: 0.5-1cm, 15-25cm, 4cm. Soily, Damp, Wedge, Entrance is v narrow - too narrow even for smallest endoscope camera | Low | | |
| AF17 | Pedunculate Oak, Over-Mature, 1.8m diameter, 20m high, Single stem | Tear Outs, 2.5m, North-East, Limb - Large tear out on limb pointing north east. | Moderate | High | Climbed inspection | External: 12cm, 20mm, Internal: 20mm, 12cm, 10cm. Dusty, Dry, Wedge | Moderate | High | None |
| | | Hazard Beam, 2m, North, Limb - Limb has split on top due to weight / tension | Moderate | | Endoscope from ladder | No cavities to measure as PRFs | Negligible | | |
| | | Tear Outs, 11m, North-East, Stem - Tear out in between a fork. | Moderate | | Climbed inspection | 15cm7cm30cm25cm3cmSmoothDryWedgeNoneSuitable maternity roost | High | | |
| | | Hazard Beam, 2m, East, Limb - Limb on south side of tree (also pointing south). | Moderate | | Endoscope from ladder | No cavities to measure as PRFs | Negligible | | |
| | | Transverse Snap, 5m, South, Limb - Very large | High | | Climbed inspection | No cavities to measure as PRFs | Negligible | | |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | | transverse snap. An additional dead branch is hanging over the break. | | | | | | | |
| | | Impact Shatter, 8m - 10.5m, South, Limb - X2 south facing impact shatters | High | | Climbed inspection | No cavities to measure as PRFs | Negligible | | |
| | | Tear Outs, 8m, South-East, Stem - Tear may not have cavities but cannot tell from ground | Moderate | | Climbed inspection | No cavities to measure as PRFs | Negligible | | |
| | | Tear Outs, 3.5m, East, Stem - Tear out on eastern side of tree. May not have cavities but will need a ladder and endoscope to check | Low | | Climbed inspection | No cavities to measure as PRFs | Negligible | | |
| AF18 | Pedunculate Oak, Semi-Mature, 65cm diameter, 17m high, Single stem | Tear Outs, 8m, North-East, Stem - Large tear out on stem facing north east. | Moderate | Moderate | Climbed inspection | No cavities to measure as PRFs | Negligible | Low | None |
| | | Impact Shatter, 10m, South-East, Stem | Moderate | | Climbed inspection | External: 30cm, 1cm, Internal: 30cm, 1.8cm, 2.5cm. Smooth, Damp, Wedge, Inverts present | Low | | |
| | | Wounds, 4m, South-East, Limb - X2 wounds with decaying barking and cracks in wood | Moderate | | Climbed inspection | No cavities to measure as PRFs - peeling bark had fallen off | Negligible | | |
| AF19 | Pedunculate Oak, Semi-Mature, 75cm diameter, 17m high, Single stemmed | Impact Shatter, 12m, South, Limb | Moderate | Moderate | Climbed inspection | External: 10cm, 5cm, Internal: 5cm, 4cm, 5cm. Jagged, Damp, Dome, Inverts present. No real crevice, faces upwards | Low | Low | None |
| | | Impact Shatter, 4m, North, Limb, Smaller rotting limb. Cavities present | Low | | Climbed inspection | External: 4cm, 3cm, Internal: 3cm, 2cm, 3cm. Bumpy, Damp, Dome, Inverts present, potential birds nest | Negligible | | |
| | | Tear Outs, 4.5m, East, Limb, Twisted limb with tear out/wound present | Moderate | | Climbed inspection | External: 3cm, 7cm, Internal: 3cm, 3cm, 5cm. Jagged, Damp, Dome, Inverts present. | Negligible | | |
| AF20 | Pedunculate Oak, Mature, 90cm diameter, 17m high, Single stemmed | Hazard Beam, 8m, South, Limb – Hazard beam on dead decaying branch hanging down | Moderate | Moderate | Climbed inspection | External: 13, 80, Internal: 13, 80, 10. Smooth, Dry, Point, Inverts present - Tapers towards stem and limb | Moderate | Low | None |
| | | Tear Outs, 8.5m, South-East, Stem - Two tear outs adjacent to each other | Moderate | | Climbed inspection | External: 3cm, 2cm, Internal: 3cm, 2cm, 7cm. Jagged, Dry, Point, Highest tear out is negligible-no need to resurvey | Low | | |
| | | Impact Shatter, 4m, South, Limb - Large crack going up a decaying branch | Low | | Climbed inspection | External: 5cm, 3cm, Internal: 3cm, 2cm, 1-2cm. Jagged, Dry, Dome, Inverts present. Superficial, no crevice | Negligible | | |

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| AF21 | Pedunculate Oak, Mature, 1m diameter, 17m high, Single stemmed | Tear Outs, 8.5m, North-East, Stem - Suitable as a day roost for a single bat | Moderate | Moderate | Climbed inspection | External: 4cm, 2cm, Internal: 3cm, 3cm, 10cm, Jagged entrance, Dry, Wedge, Woodlice present | Moderate | Moderate | None |
| | | Impact Shatter, 12m, South-West, Limb | Moderate | | Climbed inspection | No crevices/entrances within feature | Negligible | | |
| | | Hazard Beam, 5m, South-East, Limb - Hazard beam on west side of tree - can't find on climbing survey | Moderate | | Climbed inspection | No PRF | Negligible | | |
| AF22 | Pedunculate Oak, Mature, 1m diameter, 17m high, Single stemmed. | Lifting Bark, 3m, West, Stem - Horizontal stem has lifting bark around dead branch | Moderate | Moderate | Endoscope from ladder | Lifting bark can change over time but would have day roost potential only, should be checked again | Low | Low | None |
| AF23# | Pine. Dead, 55cm diameter, 15m high, Single stemmed. | Woodpecker hole, 6m, West, Stem | Moderate | Moderate | Unable to climb - dead | | Moderate | Moderate | Unable to survey further |
| | | Impact Shatter, 5m - 13m, South-West, Limb - X3 impact shatters up the stem. Mostly pointing south west | Moderate | | | | Moderate | | |
| | | Transverse Snap, 6.5m, North-East, Limb, Dead branch resting on lower branches. | Moderate | | | | Moderate | | |
| AF24 | Other, Sweet chestnut, Over-Mature, 1.5m diameter, 13m high, Single stemmed. | Dessication Fissure, 1m, South, Limb - Dead limb to south of stem. Completely hollow | Confirmed Roost | Confirmed Roost | Climbed inspection | External: 3cm, 20cm, Internal: 3-4cm, 15-20cm, 5cm. Dry, Wedge. No evidence of bats, however has previously been used as a roost. | Confirmed roost | Confirmed Roost | None |
| | | Butt Rot, 1m, East, Stem, Middle of stem is rotting and hollow | Moderate | | | External: Up to 50cm, 1-2cm, Internal: Up to 50cm, 2cm, 2cm, Smooth, Damp, Wedge, Inverts present | Low | | |
| | | Lifting Bark, 2m, South, Limb, Large plate sized loose bark on impact shatter point south west. | High | | | Multiple cracks approx.. 2cm max. External: 2-3cm, 2cm, Internal: 2-3cm, 7cm, Jagged, Dry, Point, Woodlice present | Moderate | | |
| | | Hazard Beam, 3.5m, West, Limb - Hazard beam on dead limb on west side pf tree | Moderate | | | External: 1cm, 15cm, Internal: 1.5cm, 30cm, 4cm, Smooth, Dry, Point, Probable soprano pip. x1 | Confirmed roost | | |
| | | Knot Hole, 3.5m, West, Stem - Knot hole on same limb as hazard beam. Not fully exposed but gaps in the remaining limb coming out. | Moderate | | | External: 3cm, 2cm, Internal: 3cm, 2cm, 2cm, Bumpy, Wet, Dome, Inverts present | Negligible | | |

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|---|---|---|---|---|---|---|---|---|---|
| AF25# | Pine, Dead, 45cm diameter, 7m high, Single stemmed. | Woodpecker hole, 1m - 7m, North-East, Stem - X9 significant woodpecker holes all around stem. Best on facing NE | High | High | Dead - unable to climb | | High | High | Unable to survey further |
| AF30 | Pedunculate Oak, Mature, 1.75m diameter, 17m high, Single stemmed. | Knot Hole, 9m, South-West, Stem, Evidence of bird use | Moderate | Moderate | Climbed inspection | External: 6cm, 7cm, Internal: 7cm, 7cm, 10cm, Dry, Domed at rear, evidence of use by birds | Negligible | Low | None |
| | | Lifting Bark, 19m, West, Limb - Lifting at edge of limb where has been pruned | Low | | Ground with binoculars | No access point to check peeling bark on any pruning cuts, although from ground look to have no PRF present | Low | | |
| AF32 | Pedunculate Oak, Mature, 1m diameter, 18m high, Single stemmed. | Lifting Bark, 5.5m, South, Limb - Lifting bark on limb point west. | Moderate | Moderate | Torch from ground | Assessed as low from ground, conditions with the bark will change rapidly. Should be ground assessed again if requiring felling. | Low | Low | None |
| AF33 | Ash, Mature, 1.2m diameter, 16m high, Single stemmed. | Knot Hole, 1m, West, Stem - Smaller knot hole potentially has further cavities | Low | Moderate | Endoscope | External: 5cm, 5cm, Internal: 5cm, 5cm, 7cm. Dry, Domed, two knot holes unsuitable | Negligible | High | None |
| | | Tear Outs, 2.5m, West, Stem | Moderate | | Endoscope | External: 2cm, 5cm, Internal: 15cm, 20cm, 30cm. Ragged, Dry, Hollow limb - Small opening at base of tear out - limb is hollow | High | | |
| | | Ivy, Stem - Ivy up whole tree | Low | | Climbed inspection | Not possible to check entire tree for ivy, remains low due to potential for change over time | Low | | |
| AF34 | Elm, Semi-Mature, 45cm diameter, 10m high, Single stemmed. | Ivy, Stem - Ivy up whole tree | Low | Moderate | Endoscope | Some small gaps approx. 3 in total between ivy and stem - provide limited shelter for single bats as day roost only | Moderate | Moderate | None |
| | | Welds, 2m, West, Stem - Welding between ivy and stems has formed fairly good gaps. | Moderate | | | See above | Low | | |
| AF35# | Pedunculate Oak, Mature, 1.2m diameter, 20m high, Single stemmed. | Ivy, Stem - Ivy up whole tree | Moderate | Moderate | Extensive epicormic growth - could not get suitable lines in for climbing | | Moderate | Moderate | Unable to survey further |
| | | Impact Shatter, 7m, North-West, Limb - X2 impact shatters on west side of tree. One is on the south side. | Moderate | | | | Moderate | | |
| | | Knot Hole, 10m, West, Limb | Moderate | | | | Moderate | | |
| AF41# | Pine, Over-Mature, 90cm diameter, 13m high, Single stemmed. | Hazard Beam, 5m, East, Stem | High | High | Dead - unable to climb | | High | High | Unable to survey further |
| | | Woodpecker hole, 5m, East, Stem - Same stem as hazard beam | Moderate | | | | Moderate | | |

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| | | Subsistence Split, 8m, South-West, Limb - Large imploding split on limb | High | | | | High | | |
| | | Transverse Snap, 6.5m, South-West, Stem - Large snap pointing south west | High | | | | High | | |
| AF42 | Beech, Mature, 50cm diameter, 18m high, Single stemmed. | Tear Outs, 5m, South, Limb | Moderate | Moderate | Torch from ground | Tear out wound does not lead to a crevice or cavity - open wound. Additional knot holes facing west on main stem also checked; superficial | Negligible | Negligible | None |
| F27 | Pedunculate Oak, Semi-Mature, 20m high, Single stemmed. | Knot Hole, 14-15m, South-East, Stem - 2x knotholes on main stem, can't see from ground if they extend in. | Low | Low | Ground level assessment | No suitable access points for climbing. | Moderate | Moderate | None |
| F51 | Sycamore, Semi-Mature, 0.3m diameter, 15m high, Single stemmed. | Wounds, 9m, South-East, Stem - Wound likely caused by former weld, appears from ground to be shallow but difficult to determine if cavity between living and dead tissue. | Low | Low | Endoscope from ground | No suitable access points for climbing. | Moderate | Moderate | None |
| AF26 | Sweet Chestnut, Over-Mature, 1.75m diameter, 13m high, Single stemmed. | Lifting Bark, 7m, North, Stem - Lifting bark on north facing stem as it forks. | Low | Low | Endoscope from ground | | Moderate | Moderate | None |
| AF39# | Pedunculate Oak, Mature, 1.2m diameter, 20m high, Single stemmed. | Knot Hole, 6m, North, Limb | Low | Low | Ground with binoculars | Unable to climb due to presence of nesting barn owl (Schedule 1 licence required). | High | High | Unable to survey further |
| x01 | pedunculate oak, mature, 1.5m diameter, 15m high, single stemmed. | Ivy all around till top, Stem | low | low | N/A | Newly identified low potential tree | Low | Low | None |
| x02# | pedunculate oak, mature, 1.5m diameter, 10m high, | Knot Hole, 2.5m, north-east, Stem – rams horns | Moderate | Moderate | Unable to climb due to lack of | | Moderate | Moderate | Unable to survey further |

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| | single stemmed. | | | | access points | | | | |
| x03# | Ash, Mature, 1.5m diameter, 14m high, single stemmed. | Tear Outs, 2m, North, Stem | High | High | Unable to climb due to tree health | | High | High | Unable to survey further |
| x04# | Pedunculate Oak, Mature, 1.6m diameter, 16m high, single stemmed. | | Moderate | Moderate | Unable to climb due to lack of access points | | Moderate | Moderate | Unable to survey further |
| x06 | Pedunculate Oak, Mature, 1.2m diameter, 12m high, Single stemmed. | Tear Outs, 2m, West, Limb, 6m north, stem | Low | Moderate | Climbing | External: 5cm, 10cm, Internal: 5cm, 10cm, 4cm, Bobbly, Dry, Dome.<br>Also checked woodpecker hole 6m north on stem - evidence of bird use, very large open cavity but narrows to 3 points approx. 20cm upwards. No evidence of use. | Moderate | Moderate | None |
| x07# | Dead, 1.2m diameter, 12m high, single stemmed. | fissure cracks, multiple | Moderate | Moderate | Unable to climb due to tree health | | Moderate | Moderate | Unable to survey further |
| x09 | Horse Chestnut, Mature, 1m diameter, 20m high, Single stemmed. | Hazard Beam, 6m, North-West, Stem | Moderate | Moderate | Climbing | No feature - flat internal wood, no entrance. | Negligible | Negligible | None |
| x10# | Pedunculate Oak, Mature, 1m diameter, 20m high, Single stemmed. | Hazard Beam, 12m, South-West, Limb | Moderate | Moderate | Unable to climb due to lack of access points | | Moderate | Moderate | Unable to survey further |
| x13# | Pedunculate Oak, Mature, 1.1m diameter, 9m high, Single stemmed. | Hazard Beam, 2.5m, East, Limb - hazard beam. partly closed again, another one same aspect. | Moderate | Moderate | Unable to climb due to lack of access points | | Moderate | Moderate | Unable to survey further |
| x14 | Pedunculate Oak, Mature, 1.4m diameter, 10m high, | Hazard Beam, 3m & 5m, South-West, Limb | Moderate | High | Climbing | All features on tree checked - no PRFs | Negligible | Negligible | None |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | Single stemmed. | | | | | | | | |
| x17# | Corsican pine, Semi-Mature, 0.4m diameter, 16m high, Single stemmed. | Tear Outs, 6m, South, Stem - smoothed out | High | High | Unable to climb due to lack of access points | | High | High | Unable to survey further |
| x19 | Sycamore, Semi-Mature, 0.2m diameter, 10m high, Multi stemmed. | Flute, 3m, South, Stem | Moderate | Moderate | Climbing | External: 15cm, 10cm. Internal: 20cm, 10cm, 5cm. Blackened, Dry, Wedge – Woodlice<br>No potential as maternity roost, moderate potential as transitional or summer day roost | Moderate | Moderate | None |
| x20# | Sycamore, Semi-Mature, 0.3m diameter, 10m high, Multi stemmed | Flute, 6.5m, East, Stem | Moderate | Moderate | Climbing | External: 7cm, 5cm. Internal: 3cm, 2cm, 2cm. Bumpy, Dry, Point. | Negligible | Negligible | Unable to survey further |
| x22# | Beech, Semi-Mature, 0.5m diameter, 18m high, single stemmed. | Tear Outs, 8m, South, Stem | Moderate | Moderate | Unable to climb due to ground conditions | | Moderate | Moderate | Unable to survey further |
| x23# | Beech, mature, 0.6m diameter, 16m high, Multi stemmed. | Flute, 2m, South, Stem - May just be outside the felling area | High | High | Unable to climb due to ground conditions | | High | High | Unable to survey further |
| x24# | Willow, young, 0.3m diameter, 10m high, single stemmed. | Flute, 3.5m, South-east, Stem - single stem becomes two at 0.5m | Moderate | Moderate | Unable to access due to ground conditions | | Moderate | Moderate | Unable to survey further |
| x25# | Alder, Semi-Mature, 0.5m diameter, 10m high, single stemmed. | knot hole, 5-6m, North-East, Stem, Forked at approximately 1.5m | Moderate | Moderate | Unable to access due to ground conditions | | Moderate | Moderate | Unable to survey further |
| x27# | Willow, mature, 0.5m diameter, 14m high, Multi stemmed. | Tear Outs, 7m, North-East, Stem | Moderate | Moderate | Unable to access due to ground conditions | | Moderate | Moderate | Unable to survey further |
| x28# | Alder, Semi-Mature, 0.5m diameter, 9m | Subsistence Split, 3m, North-East, Stem | Moderate | Moderate | Unable to access due to ground conditions | | Moderate | Moderate | Unable to survey further |

| Tree no. | Tree species and description | Feature description | Initial feature potential | Initial tree potential | Further survey method | 2021 feature description | 2021 feature potential | 2021 tree potential | Survey constraints |
|---|---|---|---|---|---|---|---|---|---|
| | high, single stemmed. | | | | | | | | |
| x29# | Willow, Semi-Mature 0.3m diameter, 12m high, Multi stemmed. | Hazard Beam, 4m, East, Stem | Moderate | Moderate | Unable to access due to ground conditions | | Moderate | Moderate | Unable to survey further |
| x32# | Willow, Semi-Mature, 0.25m diameter, 12m high, single stemmed. | split stem, 0.5m, south, Stem, Snapped near base | Moderate | Moderate | Unable to access due to ground conditions | | Moderate | Moderate | Unable to survey further |
| x35# | Pedunculate oak, Mature, 1m diameter, 15m high, single stemmed. | Ivy, Stem, Ivy all over which may obstruct features that are likely to be present on a tree of this age class. Emergence survey with surveyors in the north and south field preferred. | Moderate | Moderate | Unable to climb due to surveyor safety on road. | | Moderate | Moderate | Unable to survey further |
| x36# | Sycamore, Semi-mature, three stems | Ivy covered stem | Moderate | Moderate | Unable to climb due to surveyor safety. | | Moderate | Moderate | Unable to survey further |
| x37 | Ash, semi-mature, 15m high, 80cm diameter. | Densely clad stem with ivy. | Low | Low | N/A | Newly identified low potential tree | Low | Low | None |
| x38 | Ash, single stem, diameter 20cm, 6m high. | Tear out wound on top of limb, 2m high, south facing. Extends 20cm towards main stem. | Moderate | Moderate | Endoscope from ground. | No evidence, feature has moderate potential. | Moderate | Moderate | None |
| x39 | Mature oak, 15m high, 1.2m diameter, single stem. | Low potential due to size and age. | Low | Low | N/A | Newly identified low potential tree | Low | Low | None |

Trees marked with a # are those that could not be climbed