



**Arboricultural Survey to BS5837:2012**

**Adele Williams and Byron Jones**

**Wenallt Wild Camp,  
Wenallt Farm,  
Tonna,  
Neath,  
SA11 3QH**

**12 July 2022**

**Charlie Moore BSc (Hons) TechArborA**

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*If this report has been released electronically the appendices referred to herein can be found in the annexed zip folder/s as .pdf files. If this report has been released in hard copy the appendices will be bound into the back of this report. Plans are annexed separately as A0, A1, A2 or A3 as appropriate.*

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## 1. Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 7<sup>th</sup> July 2022 from Adele Williams and Byron Jones to attend Wenallt Wild Camp, Wenallt Farm, Tonna, Neath, SA11 3QH; grid reference, SS 78147 98747 (site) to undertake an arboricultural survey a to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of Trees and a Tree Constraints Plan.

I am Charlie Moore, a Consultant (Arboriculturist) at Arbtech Consulting Ltd. I hold a BSc Honors degree in Arboriculture and Urban Forestry and a BTEC Level 3 Extended Diploma in Countryside Management and have professional experience in arboriculture spanning 4 years. I also hold a Technician grade membership with the Arboricultural Association and the LANTRA Professional Tree Inspector ticket.

The advice below and appended is underwritten by our Professional Indemnity insurance for the business practice of Arboricultural Consultancy in the sum of one million Pounds Sterling in each and every claim.

**Table 1:** Documents referred to.

| Document                   | Reference No.  |
|----------------------------|----------------|
| Survey base drawing        | 127A/22        |
| LPA pre-app comments       | N/A            |
| British Standard 5837:2012 | “BS5837”       |
| Tree Survey Schedule       | Arbtech TS 01  |
| Tree Constraints Plan      | Arbtech TCP 01 |

## 2. Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Charlie Moore on the 11<sup>th</sup> and 12<sup>th</sup> of July 2022.

During the survey I categorised the trees using “Table 1 – Cascade chart for tree quality assessment” of the BS5837:2012 (see Appendix 1).

A total of 23No. individual trees, 11No. groups of trees, 0No. hedges and 0No. major shrub groups were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

Multiple small trees and shrubs occupy the site, none of which meet the minimum diameter requirements to be considered for this survey.

**Table 2:** Documents upon which this tree survey has been based.

| Document | Originator                  | Reference Number | Title                                       |
|----------|-----------------------------|------------------|---------------------------------------------|
| Topo     | John Vincent<br>Surveys LTD | 127A/22          | Wild Camping<br>Wenallt Farm Site<br>Survey |

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and advanced decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser, and GPS devices. Where this was not possible, measurements are estimated.

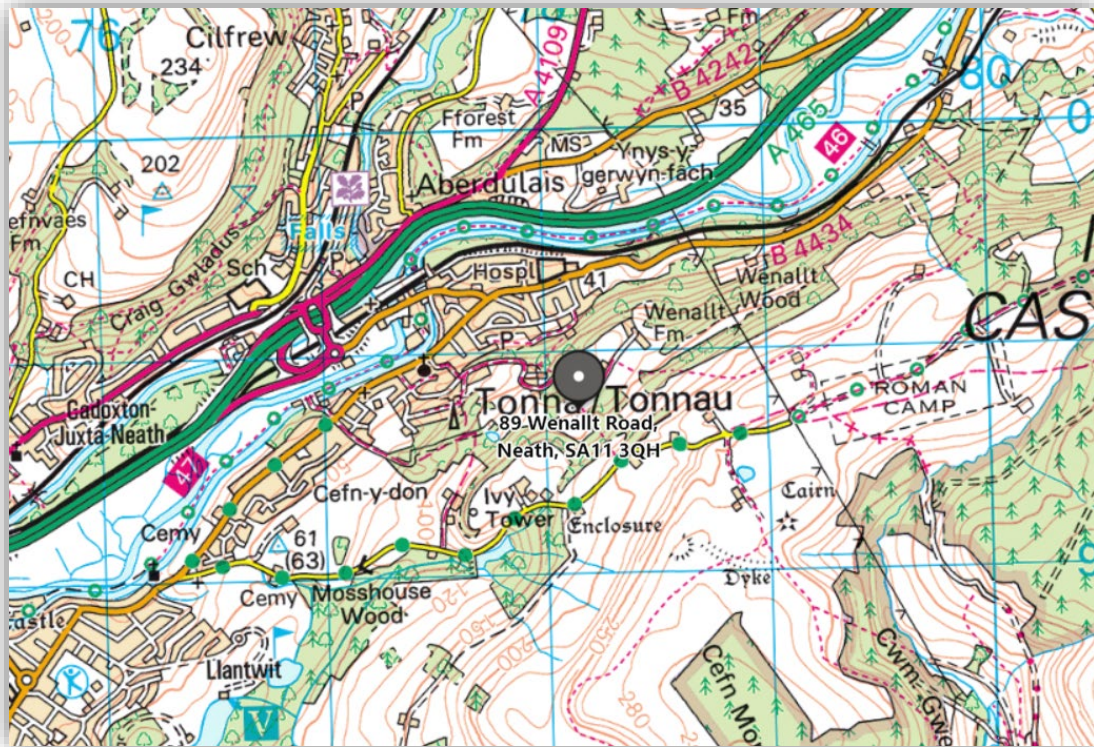
Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

\* For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 1), Tree Survey Report and Tree Constraints Plan.

## Site description

The site is located atop a mountain, to the general southeast of Tonna. The site itself comprises of 3No. large grassland fields, bordered by mixed broadleaved woodlands, and features a stream and public footpath running through the site.



**Figure 1:** OS Map (Bing Maps)



**Figure 2:** Aerial Image of site with approximate red line boundary (Bing Maps)

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### 3. BS5837:2012 Scope

This standard recognises that there can be problems for development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees, in relation to construction, to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

### 4. Methodology

The methodology used to assess the trees was the British Standard 5837:2012 'Trees in Relation to Construction' tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection. And which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable, and systematic way. Where the arboriculturist has deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst master plan proposals for the development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories: **A**, **B**, **C**, or **U** (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.

The survey schedule lists all the trees or groups of trees. The following information is also provided:

- a) reference number (to be recorded on the tree survey plan);
- b) species (common or scientific names);
- c) height in meters (m);
- d) stem diameter in millimetres (mm) at 1.5m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- e) branch spread in meters taken at the four cardinal compass points;
- f) height of crown clearance above adjacent ground level in meters (m);
- g) age class (newly planted, young, semi-mature, early mature, mature, over mature);
- h) physiological condition (e.g. good, fair, poor, decline and dead);
- i) structural condition (e.g. good, fair, poor or not visible);
- j) comment about the tree, its location and preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat;
- k) The retention category referring to the quality and useful contribution in years; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention subcategory referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = Cultural including conservation (see Appendix 1 Cascade chart for tree quality assessment).

## 5. Definitions

### Arboriculturist

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training, and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

### Tree Survey

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

### Tree Constraints Plan

A TCP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

### Root Protection Area

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m<sup>2</sup>.

### Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m<sup>2</sup>), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

### Arboricultural Impact Assessment (AIA)

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

### Tree Protection Plan (TPP)

A TPP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.

### Arboricultural Method Statement (AMS)

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.

## 6. Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions, and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order (“TPO”), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

## 7. Appendices

The following documents were released to the Client as appendices to this report:

- Survey Schedule (.PDF)
- Tree Constraints Plan drawing (.DWG & .PDF)

If you require clarification of information contained herein, please do not hesitate to contact us via 01244 661170.

Yours Sincerely,



Charlie Moore BSc (Hons) TechArborA

Consultant Arboriculturist

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## Appendix 1: Table 1 Cascade chart for tree quality assessment

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## BS5837:2012 Trees in relation to design, demolition and construction – Recommendations

**Table 1** Cascade chart for tree quality assessment

| Category and definition                                                                                                                                                        | Criteria (including subcategories when appropriate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                    |                                                                                                                                        | Identification on plan |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Trees unsuitable for retention (see Note)                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |                                                                                                                                        |                        |
| <b>Category U</b><br><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. | <ul style="list-style-type: none"><li>•Trees that have serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning).</li><li>•Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.</li><li>•Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality.</li></ul> <i>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7.</i> |                                                                                                                                                                                                                                                                    |                                                                                                                                        | Dark red               |
|                                                                                                                                                                                | <b>1 Mainly arboricultural qualities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>2 Mainly landscape qualities</b>                                                                                                                                                                                                                                | <b>3 Mainly cultural values, including conservation</b>                                                                                |                        |
| <b>Trees to be considered for retention</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                    |                                                                                                                                        |                        |
| <b>Category A</b><br><br><b>Trees of high quality</b> with an estimated remaining life expectancy of at least 40 years.                                                        | Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominate and/or principal trees within an avenue).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Trees, groups, or woodlands of particular visual importance as arboricultural and/or landscape features.                                                                                                                                                           | Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture). | Light green            |
| <b>Category B</b><br><br><b>Trees of moderate quality</b> with an estimated remaining life expectancy of at least 20 years.                                                    | Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects, including unsympathetic management and storm damage), such that they are unlikely to be suitable for retention of beyond 40 years; or trees lacking the special quality necessary to merit the category 'A' designation.                                                                                                                                                                                                                                                                                                                                                                                                           | Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality. | Trees with material conservation or other cultural value.                                                                              | Mid blue               |
| <b>Category C</b><br><br><b>Trees of low quality</b> with an estimated remaining expectancy of at least 10 years, or young trees with a stem diameter below 150mm.             | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape value.                                                                 | Trees with no material conservation or other cultural value.                                                                           | Grey                   |

## Appendix 2: Schedule of Trees

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## BS5837:2012 Tree Survey

## Arbtech Consulting Ltd

Client: Adele Williams and Byron Jones  
 Project: Wenallt Wild Camp, Wenallt Farm, Tonna, Neath, SA11 3QH  
 Survey Date: 11/07/2022 - 12/07/2022  
 Surveyor: Charlie Moore



Unit 3, Well House Barns  
 Chester Road  
 Chester  
 Cheshire  
 CH4 0DH  
 Phone: 01244661170

| Tree and Tag No<br>Species |  | Hght<br>(m) | Stems         |           | Crown         |              | Age        | RP<br>A (m²)<br>R (m) | Phys<br>Condition | Structural<br>Condition | Preliminary Recommendations |                                                                                                                                                                                                                                                                                                                     |                                 | Cat<br>ERC                                            |     |
|----------------------------|--|-------------|---------------|-----------|---------------|--------------|------------|-----------------------|-------------------|-------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------|-----|
|                            |  |             | No            | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |            |                       |                   |                         | Survey Comment              |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| G01                        |  |             |               |           |               |              |            |                       |                   |                         | Estimated Measurements      |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| Various                    |  | 11.5        | 1             | 270       | N             | 2.5          | 0          | M                     | A: 33             | Good                    | C: Good                     | Offsite group; located on the southern boundary on the far side of a small ditch, approximately between 1m and 300mm deep; recorded dimensions denote the maximum measurements for the group - stem diameters between 270mm and 80mm, heights between 11.5m and 7m; species include willow, birch, alder and rowan. |                                 |                                                       | B.2 |
| See comments for details   |  |             |               | E         | 2.5           | 0            |            | R: 3.24               |                   | S: Not visible          | 40+ yrs                     |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               | S         | 2.5           | 0            |            |                       |                   | B: Not visible          |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               | W         | 2.5           | 0            |            |                       |                   |                         |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| G02                        |  |             |               |           |               |              |            |                       |                   |                         | Estimated Measurements      |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| Various                    |  | 15          | 1             | 500       | N             | 6            | 0          | M                     | A: 113.1          | Good                    | C: Good                     | Large offsite group of several trees with a dense understory and shrub layer; species include birch and oak; recorded dimensions denote the maximum measurements for the group; stems between 500mm and 200mm; heights between 15m and 11m.                                                                         |                                 |                                                       | B.2 |
| See comments for details   |  |             |               | E         | 6             | 0            |            | R: 6                  |                   | S: Not visible          | 40+ yrs                     |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               | S         | 6             | 0            |            |                       |                   | B: Not visible          |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               | W         | 6             | 0            |            |                       |                   |                         |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| G03                        |  |             |               |           |               |              |            |                       |                   |                         | Estimated Measurements      |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| Various                    |  | 17          | 1             | 500       | N             | 7            | 0          | M                     | A: 113.1          | Good                    | C: Good                     | Large broken group of several trees with a dense understory and shrub layer; species include birch and oak; recorded dimensions denote the maximum measurements for the group; stems between 500mm and 200mm; heights between 17m and 11m.                                                                          |                                 |                                                       | B.2 |
| See comments for details   |  |             |               | E         | 7             | 0            |            | R: 6                  |                   | S: Not visible          | 40+ yrs                     |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               | S         | 7             | 0            |            |                       |                   | B: Not visible          |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               | W         | 7             | 0            |            |                       |                   |                         |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
|                            |  |             |               |           |               |              |            |                       |                   |                         |                             |                                                                                                                                                                                                                                                                                                                     |                                 |                                                       |     |
| Age Classifications:       |  | N           | Newly planted | EM        | Early Mature  |              | Condition: |                       | C                 | Crown                   | Stems:                      |                                                                                                                                                                                                                                                                                                                     | Ø                               | Diameter                                              |     |
|                            |  | Y           | Young         | M         | Mature        |              |            |                       | S                 | Stem                    |                             |                                                                                                                                                                                                                                                                                                                     | (Eq)                            | Equivalent stem diameter using BS5837:2012 definition |     |
|                            |  | SM          | Semi-mature   | OM        | Over Mature   |              |            |                       | B                 | Basal area              | ERC:                        |                                                                                                                                                                                                                                                                                                                     | Estimated Remaining Contributio |                                                       |     |

| Tree and Tag No<br>Species                 |  | Hght<br>(m) | Stems         |           | Crown         |              | Age        | RP<br>A (m²)<br>R (m) | Phys<br>Condition  | Structural<br>Condition | Preliminary Recommendations                 |                                                                                                                                                                                                                                                                                                         |                                 | Cat<br>ERC                                            |
|--------------------------------------------|--|-------------|---------------|-----------|---------------|--------------|------------|-----------------------|--------------------|-------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------|
|                                            |  |             | No            | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |            |                       |                    |                         | Survey Comment                              |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
| G04                                        |  |             |               |           |               |              |            |                       |                    |                         |                                             | Estimated Measurements                                                                                                                                                                                                                                                                                  |                                 |                                                       |
| Various<br><i>See comments for details</i> |  | 13.5        | 1             | 330       | N             | 5            | 0          | M                     | A: 49.3<br>R: 3.96 | Good                    | C: Good<br>S: Not visible<br>B: Not visible | Large broken group of several trees with a dense understory and shrub layer; species include birch, willow and hawthorn; recorded dimensions denote the maximum measurements for the group; stems between 330mm and 100mm; heights between 13.5m and 6m.                                                |                                 | B.2<br>40+ yrs                                        |
|                                            |  |             |               | E         | 5             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | S         | 5             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | W         | 5             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
| G05                                        |  |             |               |           |               |              |            |                       |                    |                         |                                             | Estimated Measurements                                                                                                                                                                                                                                                                                  |                                 |                                                       |
| Various<br><i>See comments for details</i> |  | 15          | 1             | 230       | N             | 3.5          | 0          | M                     | A: 23.9<br>R: 2.75 | Good                    | C: Good<br>S: Not visible<br>B: Not visible | Offsite broken group; comprised of several mature trees with a dense shrub layer below obstructing view; species include oak, birch, holly and rowan; recorded dimensions denote the maximum measurements for the group - stems between 230mm and 100mm, heights between 15m and 10m.                   |                                 | B.2<br>40+ yrs                                        |
|                                            |  |             |               | E         | 3.5           | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | S         | 3.5           | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | W         | 3.5           | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
| G06                                        |  |             |               |           |               |              |            |                       |                    |                         |                                             | Estimated Measurements                                                                                                                                                                                                                                                                                  |                                 |                                                       |
| Various<br><i>See comments for details</i> |  | 10          | 1             | 340       | N             | 4            | 0          | M                     | A: 52.3<br>R: 4.08 | Good                    | C: Good<br>S: Not visible<br>B: Not visible | Located adjacent to the main access road; group comprised of several mature trees, with small self seeded suckers and young trees; species include alder and goat willow; recorded dimensions denote the maximum measurements for the group - stems between 340mm and 80mm, heights between 10m and 5m. |                                 | B.2<br>40+ yrs                                        |
|                                            |  |             |               | E         | 4             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | S         | 4             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | W         | 4             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
| G07                                        |  |             |               |           |               |              |            |                       |                    |                         |                                             | Estimated Measurements                                                                                                                                                                                                                                                                                  |                                 |                                                       |
| Various<br><i>See comments for details</i> |  | 10          | 1             | 320       | N             | 4            | 0          | M                     | A: 46.3<br>R: 3.83 | Good                    | C: Good<br>S: Not visible<br>B: Not visible | Located adjacent to the main access road; group comprised of several mature trees, with small self seeded suckers and young trees; species include alder and goat willow; recorded dimensions denote the maximum measurements for the group - stems between 320mm and 80mm, heights between 10m and 5m. |                                 | B.2<br>40+ yrs                                        |
|                                            |  |             |               | E         | 4             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | S         | 4             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               | W         | 4             | 0            |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
|                                            |  |             |               |           |               |              |            |                       |                    |                         |                                             |                                                                                                                                                                                                                                                                                                         |                                 |                                                       |
| Age Classifications:                       |  | N           | Newly planted | EM        | Early Mature  |              | Condition: |                       | C                  | Crown                   | Stems:                                      |                                                                                                                                                                                                                                                                                                         | Ø                               | Diameter                                              |
|                                            |  | Y           | Young         | M         | Mature        |              |            |                       | S                  | Stem                    |                                             |                                                                                                                                                                                                                                                                                                         | (Eq)                            | Equivalent stem diameter using BS5837:2012 definition |
|                                            |  | SM          | Semi-mature   | OM        | Over Mature   |              |            |                       | B                  | Basal area              | ERC:                                        |                                                                                                                                                                                                                                                                                                         | Estimated Remaining Contributio |                                                       |

| Tree and Tag No<br>Species                 | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition   | Structural<br>Condition     | Preliminary Recommendations                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             | Cat<br>ERC |
|--------------------------------------------|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|---------------------|-----------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------|
|                                            |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                     |                             | Survey Comment                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
| G08                                        |              |                                       |               |                                       |              |     |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Estimated Measurements                                                                                      |            |
| Various<br><i>See comments for details</i> | 15           | 1                                     | 470           | N                                     | 5            | 0   | M                     | A: 99.9<br>R: 5.63  | Good                        | C: Good<br>S: Not visible<br>B: Not visible |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             | B.2        |
|                                            |              |                                       |               | E                                     | 5            | 0   |                       |                     |                             |                                             | Broken group of trees with a dense understory and herb layer located along the northern boundary; recorded dimensions denote the maximum measurements for the group - stems between 470mm and 100mm, heights between 15m and 10m; species include oak, ash and birch.                                                                                                                                                                                                                                                                                           |                                                                                                             | 40+ yrs    |
|                                            |              |                                       |               | S                                     | 5            | 0   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
|                                            |              |                                       |               | W                                     | 5            | 0   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
| G09                                        |              |                                       |               |                                       |              |     |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Estimated Measurements                                                                                      |            |
| Various<br><i>See comments for details</i> | 20           | 1                                     | 730           | N                                     | 7            | 0   | M                     | A: 241.1<br>R: 8.76 | Good                        | C: Good<br>S: Not visible<br>B: Not visible |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             | A.2        |
|                                            |              |                                       |               | E                                     | 7            | 2   |                       |                     |                             |                                             | Offsite large woodland group along the northern boundary, with a dense understory and shrub layer; recorded dimensions denote the maximum measurements for the group - stems between 730mm and 320mm, heights between 20m and 10m; species include oak, birch, holly and sycamore; pruning to the southern part of canopy, likely crown lifting works - wounds between approximately 40mm and 160mm diameter, between 20 percent and no occlusion visible from ground level; stable deadwood within the group approximately between 20mm X 200mm and 90mm X 1m. |                                                                                                             | 40+ yrs    |
|                                            |              |                                       |               | S                                     | 7            | 2   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
|                                            |              |                                       |               | W                                     | 7            | 2   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
| G10                                        |              |                                       |               |                                       |              |     |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Estimated Measurements                                                                                      |            |
| Various<br><i>See comments for details</i> | 13           | 1                                     | 300           | N                                     | 3.5          | 0   | EM                    | A: 40.7<br>R: 3.59  | Good                        | C: Good<br>S: Not visible<br>B: Not visible |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             | B.2        |
|                                            |              |                                       |               | E                                     | 3.5          | 0   |                       |                     |                             |                                             | Offsite group of trees with a thick understory and shrub layer; species include alder, birch and goat willow; recorded dimensions denote the maximum measurements for the group - stems between 300mm and 100mm.                                                                                                                                                                                                                                                                                                                                                |                                                                                                             | 40+ yrs    |
|                                            |              |                                       |               | S                                     | 3.5          | 0   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
|                                            |              |                                       |               | W                                     | 3.5          | 0   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
| G11                                        |              |                                       |               |                                       |              |     |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Estimated Measurements                                                                                      |            |
| Silver Birch<br><i>Betula pendula</i>      | 10           | 1                                     | 300           | N                                     | 4.5          | 0   | M                     | A: 40.7<br>R: 3.59  | Good                        | C: Good<br>S: Not visible<br>B: Not visible |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             | B.2        |
|                                            |              |                                       |               | E                                     | 4.5          | 0   |                       |                     |                             |                                             | Group comprised of 6 individual trees; recorded dimensions denote the maximum measurements for the group - stems between 300mm and 90mm; group located on a bank within a large shrub group; ivy cladding within the group to between 2m and top of crown.                                                                                                                                                                                                                                                                                                      |                                                                                                             | 20+ yrs    |
|                                            |              |                                       |               | S                                     | 4.5          | 0   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
|                                            |              |                                       |               | W                                     | 4.5          | 0   |                       |                     |                             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |            |
| Age Classifications:                       | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature |              |     | Condition:            | C<br>S<br>B         | Crown<br>Stem<br>Basal area |                                             | Stems:<br><br>ERC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition<br>Estimated Remaining Contributio |            |

| Tree and Tag No<br>Species     | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition | Structural<br>Condition     | Preliminary Recommendations |                                                                                                                                                                                                                                                                                                                                                             |           | Cat<br>ERC                                                                                           |         |
|--------------------------------|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|-------------------|-----------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------|---------|
|                                |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                   |                             | Survey Comment              |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
| T01                            |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Estimated Measurements                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                      |         |
| Unknown                        | 11           | 1                                     | 230           | N                                     | 0            | 0   | Dead                  | A: 23.9           | Dead                        | C:                          |                                                                                                                                                                                                                                                                                                                                                             |           | U                                                                                                    |         |
| - -                            |              |                                       |               | E                                     | 0            | 0   |                       | R: 2.75           |                             | S:                          |                                                                                                                                                                                                                                                                                                                                                             |           | n/a                                                                                                  |         |
|                                |              |                                       |               | S                                     | 0            | 0   |                       |                   |                             | B:                          |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
|                                |              |                                       |               | W                                     | 0            | 0   |                       |                   |                             |                             |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
| T02                            |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Estimated Measurements                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                      |         |
| Unknown                        | 11           | 1                                     | 270           | N                                     | 0            | 0   | Dead                  | A: 33             | Dead                        | C:                          |                                                                                                                                                                                                                                                                                                                                                             |           | U                                                                                                    |         |
| - -                            |              |                                       |               | E                                     | 0            | 0   |                       | R: 3.24           |                             | S:                          |                                                                                                                                                                                                                                                                                                                                                             |           | n/a                                                                                                  |         |
|                                |              |                                       |               | S                                     | 0            | 0   |                       |                   |                             | B:                          |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
|                                |              |                                       |               | W                                     | 0            | 0   |                       |                   |                             |                             |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
| T03                            |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Estimated Measurements                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                      |         |
| Common Oak                     | 20           | 1                                     | 680           | N                                     | 10.5         | 4.5 | M                     | A: 209.2          | Good                        | C: Good                     |                                                                                                                                                                                                                                                                                                                                                             |           | B.1.2                                                                                                |         |
| Quercus robur                  |              |                                       |               | E                                     | 4.5          | 2   |                       | R: 8.16           |                             |                             | S: Good                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                      | 40+ yrs |
|                                |              |                                       |               | S                                     | 5            | 2   |                       |                   |                             |                             | B: Not visible                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                      |         |
|                                |              |                                       |               | W                                     | 11           | 2   |                       |                   |                             |                             |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
|                                |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Located within a boundary group; asymmetrical crown distribution due to neighbouring trees; stable deadwood within the crown approximately between 30mm X 500mm and 90mm X 4m.                                                                                                                                                                              |           |                                                                                                      |         |
| T04                            |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Estimated Measurements                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                      |         |
| Jacquemont's Birch             | 9            | 1                                     | 80            | N                                     | 1            | 0   | Y                     | A: 2.9            | Good                        | C: Good                     |                                                                                                                                                                                                                                                                                                                                                             |           | C.1                                                                                                  |         |
| Betula utilis var.jacquemontii |              |                                       |               | E                                     | 1            | 0   |                       | R: 0.96           |                             |                             | S: Not visible                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                      | 40+ yrs |
|                                |              |                                       |               | S                                     | 1            | 0   |                       |                   |                             |                             | B: Not visible                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                      |         |
|                                |              |                                       |               | W                                     | 1            | 0   |                       |                   |                             |                             |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
|                                |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Young tree located within 1.6m tall ferns obstructing view.                                                                                                                                                                                                                                                                                                 |           |                                                                                                      |         |
| T05                            |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Estimated Measurements                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                      |         |
| Common Oak                     | 16           | 1                                     | 490           | N                                     | 6            | 2   | M                     | A: 108.6          | Good                        | C: Good                     |                                                                                                                                                                                                                                                                                                                                                             |           | B.1.2                                                                                                |         |
| Quercus robur                  |              |                                       |               | E                                     | 3            | 2   |                       | R: 5.87           |                             |                             | S: Ivy                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                      | 40+ yrs |
|                                |              |                                       |               | S                                     | 6            | 2   |                       |                   |                             |                             | B: Not visible                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                      |         |
|                                |              |                                       |               | W                                     | 8.5          | 2   |                       |                   |                             |                             |                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                      |         |
|                                |              |                                       |               |                                       |              |     |                       |                   |                             |                             | Located in a large group; ivy from base to approximately 11m; asymmetrical crown distribution due to neighbouring trees; stable deadwood within the canopy approximately between 20mm X 500mm and 50mm X 4m; historic pruning around the main stem, approximately 70mm diameter, no occlusion visible; unable to thoroughly inspect the base due to shrubs. |           |                                                                                                      |         |
| Age Classifications:           | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature |              |     | Condition:            | C<br>S<br>B       | Crown<br>Stem<br>Basal area |                             | Stems:                                                                                                                                                                                                                                                                                                                                                      | Ø<br>(Eq) | Diameter<br>Equivalent stem diameter using BS5837:2012 definition<br>Estimated Remaining Contributio |         |

| Tree and Tag No<br>Species | Hght<br>(m) | Stems         |           | Crown         |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition | Structural<br>Condition | Preliminary Recommendations |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cat<br>ERC       |  |
|----------------------------|-------------|---------------|-----------|---------------|--------------|-----|-----------------------|-------------------|-------------------------|-----------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--|
|                            |             | No            | Ø<br>(mm) | Spread<br>(m) | Clear<br>(m) |     |                       |                   |                         | Survey Comment              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| T06                        |             |               |           |               |              |     |                       |                   |                         |                             | Estimated Measurements               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| Silver Birch               | 10.5        | 2             | 286       | (Eq)          | N            | 4   | 2                     | M                 | A: 37<br>R: 3.43        | Good                        | C: Good<br>S: Ivy<br>B: Not visible  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C.1.2<br>20+ yrs |  |
| <i>Betula pendula</i>      |             |               |           |               | E            | 5   | 2                     |                   |                         |                             |                                      | Located in a group, directly adjacent to a stream; multi stemmed from base; ivy to approximately 4m; asymmetrical crown distribution due to neighbouring group; unable to thoroughly inspect the base due to shrubs.                                                                                                                                                                                                                                                                         |                  |  |
|                            |             |               |           |               | S            | 3.5 | 2                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
|                            |             |               |           |               | W            | 2.5 | 2                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| T07                        |             |               |           |               |              |     |                       |                   |                         |                             | Estimated Measurements               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| Common Alder               | 6           | 2             | 127       | (Eq)          | N            | 2   | 1.5                   | SM                | A: 7.3<br>R: 1.52       | Good                        | C: Good<br>S: Good<br>B: Not visible |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C.1<br>40+ yrs   |  |
| <i>Alnus glutinosa</i>     |             |               |           |               | E            | 2   | 1.5                   |                   |                         |                             |                                      | Located in a shrub group, directly adjacent to a stream; unable to thoroughly inspect the base due to obstruction by shrubs; twin stemmed from base.                                                                                                                                                                                                                                                                                                                                         |                  |  |
|                            |             |               |           |               | S            | 2   | 1.5                   |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
|                            |             |               |           |               | W            | 2   | 1.5                   |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| T08                        |             |               |           |               |              |     |                       |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| Silver Birch               | 9.5         | 1             | 280       |               | N            | 2   | 1                     | M                 | A: 35.5<br>R: 3.36      | Good                        | C: Good<br>S: Ivy<br>B: Good         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B.1<br>20+ yrs   |  |
| <i>Betula pendula</i>      |             |               |           |               | E            | 2.5 | 2.5                   |                   |                         |                             |                                      | Located in a raised bank, directly adjacent to a stream with some exposed roots around the base; ivy to 6m; asymmetrical crown distribution due to neighbouring tree.                                                                                                                                                                                                                                                                                                                        |                  |  |
|                            |             |               |           |               | S            | 3   | 2                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
|                            |             |               |           |               | W            | 3.5 | 2                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| T09                        |             |               |           |               |              |     |                       |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| Silver Birch               | 12          | 2             | 440       | (Eq)          | N            | 5   | 5                     | M                 | A: 87.8<br>R: 5.28      | Good                        | C: Good<br>S: Ivy<br>B: Good         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B.1<br>20+ yrs   |  |
| <i>Betula pendula</i>      |             |               |           |               | E            | 4.5 | 3                     |                   |                         |                             |                                      | Located in a bank directly adjacent to a stream, with exposed roots around the base; multi stemmed from base with bark damage on the northern side of stems, consistent with machinery damage - wounds approximately between 50mm and 130mm diameter - no occlusion; historic pruning around the lower stem approximately 80mm diameter - no occlusion; ivy to top of crown; crown lifting works on the western side of canopy, approximately between 30mm and 60mm diameter - no occlusion. |                  |  |
|                            |             |               |           |               | S            | 2   | 5                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
|                            |             |               |           |               | W            | 4   | 4.5                   |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| T10                        |             |               |           |               |              |     |                       |                   |                         |                             |                                      | Estimated Measurements                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |  |
| Common Hawthorn            | 7.5         | 2             | 214       | (Eq)          | N            | 4   | 2                     | M                 | A: 20.7<br>R: 2.56      | Good                        | C: Good<br>S: Ivy<br>B: Not visible  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C.1<br>20+ yrs   |  |
| <i>Crataegus monogyna</i>  |             |               |           |               | E            | 4.5 | 2                     |                   |                         |                             |                                      | Located in a shrub group, directly adjacent to a stream; ivy to 4m; asymmetrical crown distribution due to neighbouring trees; twin stemmed from base; unable to thoroughly inspect the base due to shrubs.                                                                                                                                                                                                                                                                                  |                  |  |
|                            |             |               |           |               | S            | 3   | 1                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
|                            |             |               |           |               | W            | 3   | 2                     |                   |                         |                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |
| Age Classifications:       | N           | Newly planted | EM        | Early Mature  | Condition:   |     |                       | C                 | Crown                   | Stems:                      | Ø                                    | Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |  |
|                            | Y           | Young         | M         | Mature        |              |     |                       | S                 | Stem                    |                             | (Eq)                                 | Equivalent stem diameter using BS5837:2012 definition                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |  |
|                            | SM          | Semi-mature   | OM        | Over Mature   |              |     |                       | B                 | Basal area              | ERC:                        |                                      | Estimated Remaining Contributio                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |  |

| Tree and Tag No<br>Species                   | Hght<br>(m)  | Stems                                 |               | Crown                                 |              | Age | RP<br>A (m²)<br>R (m) | Phys<br>Condition  | Structural<br>Condition     | Preliminary Recommendations                 |                                                                                                                                                                                                                                                                                                                     |                                                                                                             | Cat<br>ERC |
|----------------------------------------------|--------------|---------------------------------------|---------------|---------------------------------------|--------------|-----|-----------------------|--------------------|-----------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------|
|                                              |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m) |     |                       |                    |                             | Survey Comment                              |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| T11                                          |              |                                       |               |                                       |              |     |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     | Estimated Measurements                                                                                      |            |
| Apple<br><i>Malus sp.</i>                    | 7.5          | 2                                     | 184 (Eq)      | N                                     | 5.5          | 2   | M                     | A: 15.4<br>R: 2.21 | Good                        | C: Good<br>S: Good<br>B: Not visible        |                                                                                                                                                                                                                                                                                                                     |                                                                                                             | C.1        |
|                                              |              |                                       |               | E                                     | 5            | 2   |                       |                    |                             |                                             | Located in a shrub group directly adjacent to a stream; unable to thoroughly inspect the base due to shrubs; twin stemmed from base, stems are fused together before bifocating from 1.3m; main stem angle approximately 45 degrees from vertical to the north - asymmetrical crown distribution due to stem angle. |                                                                                                             | 20+ yrs    |
|                                              |              |                                       |               | S                                     | 4            | 2   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
|                                              |              |                                       |               | W                                     | 4            | 2   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| T12                                          |              |                                       |               |                                       |              |     |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     | Estimated Measurements                                                                                      |            |
| Goat Willow<br><i>Salix caprea</i>           | 6.5          | 1                                     | 160           | N                                     | 2.5          | 3   | SM                    | A: 11.6<br>R: 1.92 | Good                        | C: Good<br>S: Not visible<br>B: Not visible |                                                                                                                                                                                                                                                                                                                     |                                                                                                             | C.1        |
|                                              |              |                                       |               | E                                     | 0.5          | 5   |                       |                    |                             |                                             | Located in a shrub group on a bank adjacent to an access road; base of tree located approximately 1m above road level; historically twin stemmed with northern stem removed, no occlusion visible; asymmetrical crown distribution likely due to historic stem removal.                                             |                                                                                                             | 20+ yrs    |
|                                              |              |                                       |               | S                                     | 3            | 0   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
|                                              |              |                                       |               | W                                     | 4            | 0   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| T13                                          |              |                                       |               |                                       |              |     |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     | Estimated Measurements                                                                                      |            |
| Common Alder<br><i>Alnus glutinosa</i>       | 11           | 1                                     | 340           | N                                     | 4            | 2   | M                     | A: 52.3<br>R: 4.08 | Good                        | C: Good<br>S: Good<br>B: Not visible        |                                                                                                                                                                                                                                                                                                                     |                                                                                                             | B.1        |
|                                              |              |                                       |               | E                                     | 4            | 2   |                       |                    |                             |                                             | Located in a shrub group; unable to thoroughly inspect the base due to the shrub group; widespread crown.                                                                                                                                                                                                           |                                                                                                             | 40+ yrs    |
|                                              |              |                                       |               | S                                     | 4            | 2   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
|                                              |              |                                       |               | W                                     | 4.5          | 2   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| T14                                          |              |                                       |               |                                       |              |     |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| Common Hawthorn<br><i>Crataegus monogyna</i> | 6            | 1                                     | 120           | N                                     | 2.5          | 2   | M                     | A: 6.5<br>R: 1.43  | Good                        | C: Good<br>S: Ivy<br>B: Not visible         |                                                                                                                                                                                                                                                                                                                     |                                                                                                             | C.1        |
|                                              |              |                                       |               | E                                     | 3            | 2   |                       |                    |                             |                                             | Located next to a bank; multi stemmed from base - recorded stem diameter denotes average at 1.5m; ivy from base to 3m.                                                                                                                                                                                              |                                                                                                             | 20+ yrs    |
|                                              |              |                                       |               | S                                     | 2.5          | 2   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
|                                              |              |                                       |               | W                                     | 3            | 2   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| T15                                          |              |                                       |               |                                       |              |     |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| Goat Willow<br><i>Salix caprea</i>           | 7.5          | 1                                     | 240           | N                                     | 4            | 2   | M                     | A: 26.1<br>R: 2.88 | Good                        | C: Good<br>S: Fair<br>B: Good               |                                                                                                                                                                                                                                                                                                                     |                                                                                                             | C.1        |
|                                              |              |                                       |               | E                                     | 3            | 2   |                       |                    |                             |                                             | Located next to a bank; wound from base to 1.2m consistent with historic multi stem with included union failure - wound approximately 1m long 240mm wide, now occluded to 1m X 150mm.                                                                                                                               |                                                                                                             | 20+ yrs    |
|                                              |              |                                       |               | S                                     | 3.5          | 0   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
|                                              |              |                                       |               | W                                     | 3.5          | 1   |                       |                    |                             |                                             |                                                                                                                                                                                                                                                                                                                     |                                                                                                             |            |
| Age Classifications:                         | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature |              |     | Condition:            | C<br>S<br>B        | Crown<br>Stem<br>Basal area |                                             | Stems:<br><br>ERC:                                                                                                                                                                                                                                                                                                  | Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition<br>Estimated Remaining Contributio |            |

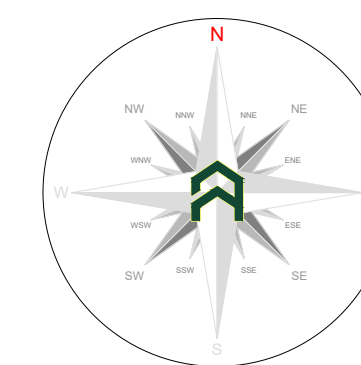
| Tree and Tag No<br>Species             | Hght<br>(m)  | Stems                                 |               | Crown                                 |                      | Age                    | RP<br>A (m²)<br>R (m)    | Phys<br>Condition | Structural<br>Condition             | Preliminary Recommendations                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |  | Cat<br>ERC     |
|----------------------------------------|--------------|---------------------------------------|---------------|---------------------------------------|----------------------|------------------------|--------------------------|-------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|----------------|
|                                        |              | No                                    | Ø<br>(mm)     | Spread<br>(m)                         | Clear<br>(m)         |                        |                          |                   |                                     | Survey Comment                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |  |                |
| T16                                    |              |                                       |               |                                       |                      |                        |                          |                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Estimated Measurements |  |                |
| Silver Birch<br><i>Betula pendula</i>  | 13.5         | 1                                     | 460           | N<br>E<br>S<br>W                      | 3<br>5<br>5<br>3     | 11<br>1<br>2<br>4      | M<br>A: 95.7<br>R: 5.51  | Good              | C: Good<br>S: Ivy<br>B: Not visible | Located in a shrub group; ivy from base to top of crown; asymmetrical crown distribution due to neighbouring trees.                                                                                                                                                                                                                                                                                                                                     |                        |  | B.1<br>20+ yrs |
| T17                                    |              |                                       |               |                                       |                      |                        |                          |                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |  |                |
| Common Oak<br><i>Quercus robur</i>     | 12           | 1                                     | 560           | N<br>E<br>S<br>W                      | 3<br>6.5<br>7.5<br>6 | 5<br>1.5<br>2<br>2     | M<br>A: 141.9<br>R: 6.72 | Good              | C: Good<br>S: Ivy<br>B: Good        | Located in grassland; asymmetrical crown distribution due to neighbouring trees; large burl at the base of the tree; stable deadwood within the canopy, approximately between 30mm X 250mm and 60mm X 3m; epicormic growth around the base and lower canopy; ivy from base to 8m.                                                                                                                                                                       |                        |  | B.1<br>40+ yrs |
| T18                                    |              |                                       |               |                                       |                      |                        |                          |                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |  |                |
| Common Oak<br><i>Quercus robur</i>     | 12           | 1                                     | 570           | N<br>E<br>S<br>W                      | 3<br>6<br>4.5<br>4.5 | 2<br>2<br>2<br>2       | M<br>A: 147<br>R: 6.84   | Decline           | C: Poor<br>S: Ivy<br>B: Poor        | Located in grassland; asymmetrical crown distribution due to neighbouring trees; prolific ivy cladding from base to crown; evidence lifting bark around the base, denoting potential decay; canopy density approximately 20 percent - leaves are stunted and yellowing; unable to thoroughly inspect the canopy, base or stem due to ivy coverage; significant amount of major deadwood in the canopy, approximately between 100mm X 4m and 160mm X 6m. |                        |  | U<br><10 yrs   |
| T19                                    |              |                                       |               |                                       |                      |                        |                          |                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |  |                |
| Common Alder<br><i>Alnus glutinosa</i> | 11           | 1                                     | 320           | N<br>E<br>S<br>W                      | 2.5<br>3.5<br>5<br>3 | 2.5<br>2.5<br>2<br>2.5 | M<br>A: 46.3<br>R: 3.83  | Good              | C: Good<br>S: Ivy<br>B: Good        | Located in grassland next to a bank; cavity forming under base consistent with soil level change; ivy from base to top of crown; asymmetrical crown distribution due to neighbouring trees; epicormic growth on main stem and limbs.                                                                                                                                                                                                                    |                        |  | B.1<br>20+ yrs |
| T20                                    |              |                                       |               |                                       |                      |                        |                          |                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |  |                |
| Silver Birch<br><i>Betula pendula</i>  | 17           | 1                                     | 570           | N<br>E<br>S<br>W                      | 6<br>5.5<br>5<br>4.5 | 2<br>2<br>2.5<br>2     | M<br>A: 147<br>R: 6.84   | Good              | C: Good<br>S: Good<br>B: Good       | Located in grassland, adjacent to a walkway and raised bank; widespread crown.                                                                                                                                                                                                                                                                                                                                                                          |                        |  | B.1<br>20+ yrs |
| Age Classifications:                   | N<br>Y<br>SM | Newly planted<br>Young<br>Semi-mature | EM<br>M<br>OM | Early Mature<br>Mature<br>Over Mature | Condition:           |                        |                          | C<br>S<br>B       | Crown<br>Stem<br>Basal area         | Stems:<br><br>Ø Diameter<br>(Eq) Equivalent stem diameter using BS5837:2012 definition<br>ERC: Estimated Remaining Contributio                                                                                                                                                                                                                                                                                                                          |                        |  |                |



## Appendix 3: Tree Constraints Plan

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**Note:** Existing dwellings, retaining walls, existing and structures are likely to be partial or complete not barriers. The priority do not have enough information with regards to the existing and surrounding properties and structures, foundations, soil types etc. to definitively determine the not barriers. Site features that are significant enough to be considered barriers to test development, irrespective of proximity to trees, have been identified with a light blue highlight (see key for details).



Indicative only

## Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'

Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.

Category 'B' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

Category 'C' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.

## Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a minimum area in m<sup>2</sup> which should be left undisturbed around each retained tree.

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

The calculated RPA is capped to 707m<sup>2</sup>, which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

## Tree Survey Report

Please refer to Arbrech Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, hedgerows and major shrub groups.

All trees were surveyed and categorised in accordance with the guidance as set out in the British Standard BS5837:2012 Tree in relation to design, demolition and construction - Recommendations.

We make the following recommendation to ensure that no conditions relating to arboriculture are attached to any planning consent secured: obtain and arboricultural report to include:

b) An arboricultural method statement (AMS); and  
c) A tree protection plan (TPP).



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<https://arbtech.co.uk>, 01244 681170

Project:

Wenallt Wild Camp,  
Wenallt Farm,  
Tonna,  
Neath,  
SA11 3QH

Client: Adele Williams and Byron Jones

Drawing: **Tree Constraints Plan**

Based on: 127A/22

Drawing No:  
Arbtech TCP 01

Date:

July

Key:

Tree

|        |
|--------|
| Notes: |
|        |

RPA&amp;C

Category  
'B' trees:

|           |  |
|-----------|--|
| Potential |  |
|-----------|--|

All dimensions

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| Document number | Editor        | Signature                                                                         | Position                     | Issue number | Date     |
|-----------------|---------------|-----------------------------------------------------------------------------------|------------------------------|--------------|----------|
| Arbtech TSR 01  | Charlie Moore |  | Consultant (Arboriculturist) | 01           | 12/07/22 |

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