



TRACY CLARKE
TREE CONSULTANCY

Arboricultural Impact Assessment and Method Statement

Client: EDF Renewables

Site: Sutton Bridge Grid Connection
Walpole St Andrew
Wisbech
PE14 7JF

Report by: Tracy Clarke MICFor. F.Arbor.A. CEnv

Date: November 2021

Reference: TCTC-18075-A

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Executive Summary

Tracy Clarke Tree Consultancy Ltd are instructed to provide an arboricultural survey and impact assessment of the proposal in accordance with BS5837 (2012), Trees in relation to design, demolition, and construction – Recommendations. The information provided to the client has helped to inform the site layout to ensure that the proposal is sustainable in respect of important arboricultural and landscape features and that it complies with national and local planning policies.

A total of one hundred and sixteen individual trees, thirty two groups and thirty three hedges are included in the tree survey relevant to the consideration of potential development impacts.

The proposed development involves a proposed grid route, and substation. Parts of two low value young groups of native planted trees will be removed to facilitate the access route into the proposed substation part of the site.

The cable route does pass within the root protection areas of retained trees, hedges, and groups, however provided best practice methods as recommended in BS5837 (2012) using appropriate trenchless solutions for long sections of root protection areas impacted by the works, or for smaller sections or instances, hand excavations in accordance with NJUG 10 Guidelines Volume 4 Issue 2 (2007) are followed, all of these features can be retained and potential risk to tree roots minimised.

Provision of protective barriers for the works are impractical along the public highway, but where there is likely to be repeated access across root protection areas temporary ground protection measures to prevent soil compaction are recommended, and appropriate specifications are outlined in the arboricultural method statement drawing associated with this report.

My conclusions are that the proposed development is therefore acceptable in both arboricultural terms and in relation to planning policy as it relates to trees.

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1 Introduction

Terms of reference

1.1 Tracy Clarke Tree Consultancy Ltd are instructed by Arcus on behalf of EDF Renewables to:

- provide a BS 5837 (2012) tree survey of trees relevant to the site, with recommendations for works, and
- provide an arboricultural impact assessment report which addresses the impacts on trees from the proposed development for planning submission, and provides measures for their protection during construction

1.2 The proposal comprises two independent but interlinked elements, namely the:

1. Grid Route: Would run from the west of the Solar Farm along King John's Bank adjacent to the River Nene, Gunthorpe Road, The Marsh, French's Road, Walpole Bank and through a field to reach the existing Walpole National Grid Substation (the 'existing substation'). Cabling would be installed under existing roads and verges with the exception of the field adjacent to the existing substation; and

2. Proposed Substation: Would be located within an area which is currently owned by National Grid, which would include a Switch Room, Control Room and Aux TX Room served by an access track from Walpole Bank and parking for two vehicles. There would also be a culvert to form a ditch crossing into the Proposed Substation compound.

1.3 The construction period of the development will last approximately six months and the operational period of the Development would be up to forty years.

Method of assessment

1.4 This assessment follows best practice British Standard 5837: Trees in relation to design, demolition, and construction (2012) which provides a methodology for the assessment of trees and other significant vegetation on development sites and aims to guide decision making towards sustainable design and tree cover on all new developments.

1.5 This assessment also has regard to national and local planning policies in consideration of the arboricultural impacts from the development proposals since these policies will guide the decision-making process of the local planning authority.

Scope and limitations

- 1.6 The tree survey is of a preliminary nature only; all trees have only been inspected from ground level applying ¹Mattheck's (1994) visual tree assessment method (VTA). No detailed decay investigations of the trees or detailed site investigations have been carried out to inform this report.
- 1.7 This report is not an assessment of tree condition and the risk they represent to people or property, however where defects trees have been noted as requiring works, recommendations are included in the tree schedule included with this report.
- 1.8 All recommendations are given in the context of the site's current use, or to facilitate the proposed development. Trees are dynamic living organisms, and subject to a change in their condition.
- 1.9 This report should not be considered as a full assessment of the health and safety of trees on and adjacent to the site, and where trees do have the potential to harm people or property, an inspection of their condition by the relevant owner on an annual basis is recommended.
- 1.10 The assessment of trees within this report is valid for two years from its date.
- 1.11 Due to the absence of a full topographical survey, tree positions are approximate only unless otherwise stated.

Background documents supplied

- 1.12 The following documents have been supplied by the client team and relied upon for this report:

Supplier	Name	Date
EDF / Arcus	4221_DR_PRE_0010 P3 – Proposed Cable Route Plan 4221-REP-016 Site Location Plan (PDF) 4221_DR_PRE_0012 Indicative Cable Trench 4221_DR_PRE_0007 Indicative Palisade Fence and Gate Detail 4221_DR_P_0008 Indicative DNO Switch room 4221_DR_P_0009 Indicative AUX TX Room 4221_DR_PRE_0011 Indicative Access Track	November 2021 November 2021 October 2021 October 2021 November 2021 November 2021 October 2021

¹ Mattheck, C, Broeler, H. (1994). The body language of trees. A handbook for failure analysis – Research for Amenity Trees No.4 Research for Amenity Trees

2 Observations and Tree Information

The Site

- 2.1 The site was visited on 11 and 12 May 2021 to conduct a BS5837 (2012) survey and assessment of trees.

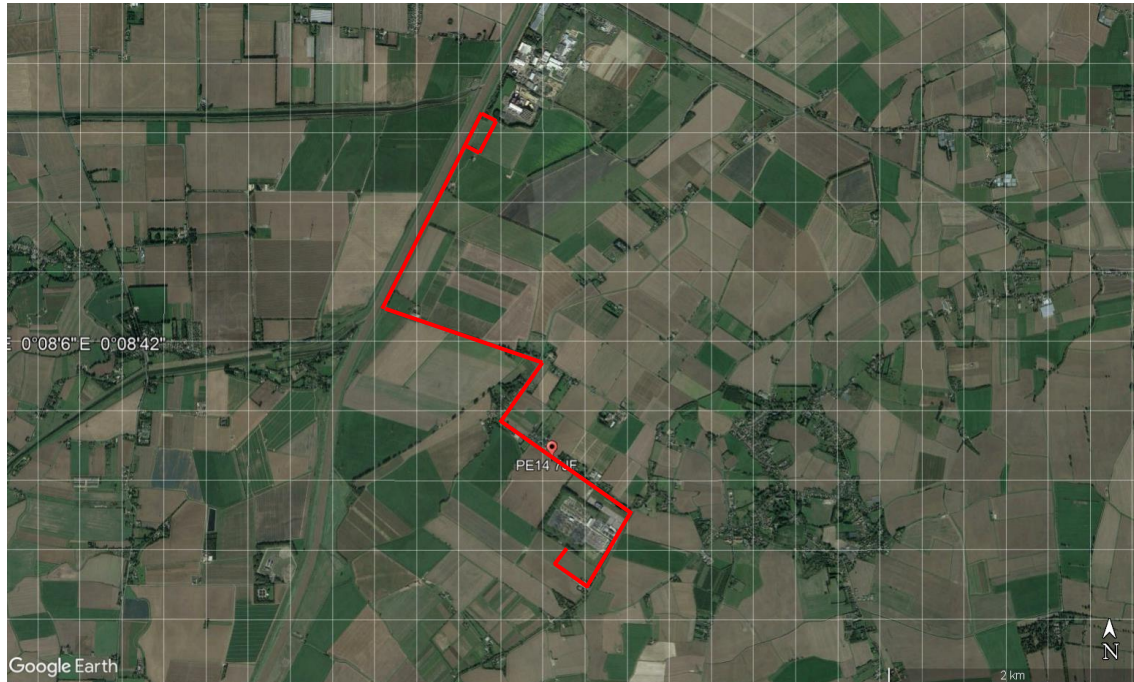


Fig. 1 Google Earth 2021 – site location / overview of route

Tree data

- 2.2 The data on the trees surveyed can be found in the tree schedule at Appendix A1. A total of one hundred and sixteen individual trees, thirty two groups and thirty three hedges have been assessed tree works are identified at Appendix A2.
- 2.3 Since the original survey date, the redline boundary has extended further north / north east, and our tree survey does not extend this far, however provided the same methods for the cable route installation suggested within this report can be followed for these areas, it will be possible to avoid unnecessary tree or hedgerow loss and minimise potential root impacts.
- 2.4 The surveyed trees and their assessment of quality and value are indicated on the tree survey plan at Appendix B1.
- 2.5 The proposed layout and where relevant, trees for removal are shown at Appendix B2.
- 2.6 An arboricultural method statement drawing is provided at Appendix B3.

- 2.7 An analysis of the tree quality and value, species mix and age diversity relevant to this proposal is included at Appendix C, which helps to understand the sustainability of the existing tree population on site.
- 2.8 The surveyed trees and hedges sit within either the highway verges or within private property boundaries, or within existing client land.

Site soils and influence on rooting

- 2.9 Soil conditions will have a significant effect upon tree growth and will influence:
- The species that will grow successfully.
 - Rooting depths for different species.
 - The available soil volume that can be used by roots and therefore the tolerance of trees and other vegetation to soil disturbance
- 2.10 As a guide,²Cranfield University Soilsclapes map describes the soils in the locality as **Soilscape 21**: Loamy and clayey soils of coastal flats with naturally high groundwater.

Legal status of trees / woodlands

- 2.11 At the time of writing the report it has not been possible to identify whether the surveyed trees are legally protected by a tree preservation or by virtue of being within a conservation area.
- 2.12 The removal or pruning of any legally protected trees requires prior written Local Planning Authority (LPA) approval unless granted through full and detailed planning consent where the works have been clearly specified and agreed as necessary to implement that consent.

² <http://www.landis.org.uk>

3 Planning Policy Context

National and Local Planning Policy

- 3.1 National Planning policy is set out in the government's National Planning Policy Framework (NPPF) 2021 reflects the Government's vision for a planning system that puts beautiful, environmentally sustainable, and life-enhancing places at its heart.
- 3.2 The NPPF is a material consideration in any planning application and promotes a presumption in favour of sustainable development, delivering good quality design and change for the better in our built and natural environment over the lifetime of the development.
- 3.3 The NPPF recognises that the natural environment is an essential component of the health and wellbeing of society, that in achieving well designed places (paragraph 131) trees make an important contribution to the character and quality of urban environments and can also help mitigate and adapt to climate change. Planning policies and decisions should ensure that new streets are tree lined, that opportunities are taken to incorporate trees elsewhere in developments, that appropriate measures are in place to secure long – term maintenance of newly planted trees, and that existing trees are retained wherever possible.
- 3.4 The NPPF advises (paragraph 180) that when determining planning applications, local planning authorities should apply the principles of avoidance, minimise, remediate or, as a last resort compensate for the harmful impacts of development on for example biodiversity, and irreplaceable habitats (such as ancient woodland and ancient and veteran trees).
- 3.5 Growth for communities delivered by the planning system requires the careful consideration of our natural environment during the design and development process to achieve sustainable development and this report considers how the development complies with the NPPF and how it achieves sustainable development.

4 Discussion

Key arboricultural impacts

4.1 The following arboricultural impacts have been identified in relation to the proposed development:

Activity	Potential Impact			
Tree Loss for Development	Category A	Category B	Category C	Category U
	0	0	Part of G1 and Part of G2	0
	The creation of a new access, access track to the AUX TX room, and Switch room proposed access to the switch room requires partial removal of these low value, young, planted groups. The loss can be easily off set with similar planting elsewhere on the site and should therefore not be a significant constraint.			
Tree Loss for Arboricultural Reasons	No trees are proposed for removal for arboricultural reasons.			
³ RPA and tree crown Impact	The general impacts on retained trees can be managed by following the requirements of the arboricultural method statement at Appendix B3.			
RPA incursion: Demolition	No demolition activities are anticipated with this project.			
RPA incursion: Construction	The depth of the proposed cables along the route are anticipated to be 1m below existing ground level. At this depth, generally the majority of structural tree roots can be avoided. For areas where the cable route does not run under or within the RPA of trees, hedges or groups of trees, traditional excavations can be undertaken, using machinery. Where the cable route runs under long stretches of trees, hedges or groups of trees, trenchless techniques will need to be adopted to ensure their retention and that roots are safeguarded. Trenchless solutions are recommended within BS5837 (2012) and should be followed. For smaller areas, hand excavation			

³ RPA Section 3.7 of BS5837 (2012): layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority

	following NJUG guidelines⁴ will need to be followed, retaining all roots 25mm diameter and above. The cable route will pass within the RPA of the following mixed value trees, hedges, and groups of trees: T3, G13, T29-T39, G44, G56, T57, G62, T82, T88, T89, T97, T104, T121-T126, T142-T157, T158-T161, H162, H163, H165 and H166. The chosen method by the contractor will be reviewed by the arboricultural consultant prior to programming or implementing the works on site to ensure that methods are sensitive to tree retention. Provided trenchless solutions / NJUG methods are followed as appropriate to the extent of works for cabling within the RPA of trees, works will not harm retained trees and will allow for tree or hedge retention.
RPA Incursion: Soil levels change	No soil level changes are anticipated within the root protection area of retained trees.
Pruning to facilitate development	Some minor pruning of hedges, by facing back and some minor crown lifting of individual trees will be required to give clearance for working space for site operations. This is not significant and should not harm their long term health or retention. Tree works are specified in the tree work schedule at Appendix A2.
Future growth of retained trees	This is not considered to be an issue on this project.

Changes from the proposal

- 4.2 Small sections of low value young, planted groups of trees G1 and G2, will require removal, this is a minor impact, and with new planting elsewhere on this site, can be off set and minimise potential impact on biodiversity loss or potential public amenity value loss.
- 4.3 With all other trees, hedges, and groups along the route, provided sensitive methods of working are adopted to prevent root damage and allow their retention, the proposed changes as a result of the development works will be very limited.

⁴ National Joint Utilities Group (NJUG) *Guidelines for the planning, installation, and maintenance of utility apparatus in proximity to trees*. Volume 4 Issue 2. London: NJUG, 2007

5 Conclusions

- 5.1 This report demonstrates that trees have been considered properly in accordance with best practice, impacts identified, and mitigation suggested to ensure risks from demolition and construction operations associated with the proposal can be managed and implemented where necessary.
- 5.2 A total of one hundred and sixteen individual trees, thirtytwo groups and thirty three hedges are included in the tree survey relevant to the consideration of development impacts. Only two small parts of a young planted native groups (G1 and G2) will require removal to facilitate the development.
- 5.3 All other trees and landscape features can be retained provided appropriate best practice methods of installation for the cable route are adopted and the tree protection methods outlined in this report followed.
- 5.4 Some minor facilitative pruning by facing back hedgerows or by crown lifting low pendulous growth will be required for some tree and hedges, but this is minor work not expected to cause significant health or long term adverse impact on appearances.
- 5.5 Subject to adopting the approaches and best practice recommendations within this report and associated drawings it is possible to conclude the proposal can incorporate the trees, hedges and groups sustainably and therefore complies with national and local planning policies.

Appendix A1 – BS 5837 Tree Data Schedule



Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G1	1 Acer campestre (Field Maple)	2.5	4 AVE	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young planted group along roadside - good screening value Trees still tubed and staked Approximately 80% hawthorn Average stem diameter given Numbers in group not counted	11/05/2021	0.7	0.5	20-40	C2
	1 Corylus avellana (Common Hazel)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Fraxinus excelsior (Ash)																				
	1 Prunus sp. (Cherry sp.)																				
	1 Prunus spinosa (Blackthorn/Sloe)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G2	1 Crataegus monogyna (Common Hawthorn/Quick/May)	1.5	4 AVE	1									0.0	N	Young	Structural condition Good. Physiological condition Fair. Young planted group younger than G1 - recently planted Trees still tubed and staked Group includes gorse Approximately 60% hawthorn The ash has ash dieback Average stem diameter given Numbers in group not counted	11/05/2021	0.7	0.5	20-40	C2
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Fraxinus excelsior (Ash)																				
	1 Prunus sp. (Cherry sp.)																				
	1 Sorbus aucuparia (Rowan/Mountain Ash)																				
	1 Acer campestre (Field Maple)																				
	1 Corylus avellana (Common Hazel)																				
	1 Quercus robur (English Oak)																				
Tree T3	1 Fraxinus excelsior (Ash)	15.0	50	1		7.5		7.0		7.0		7.0	3.0	M	Mature	Structural condition Fair. Physiological condition Fair. Susceptible to ash dieback Unable to assess fully due to extent of ivy	11/05/2021	113.1	6.0	10-20	C1
Tree T4	1 Acer pseudoplatanus (Sycamore)	12.0	35	1		3.9		3.9		3.9		3.9	1.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	11/05/2021	55.4	4.2	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

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Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T5	1 Acer pseudoplatanus (Sycamore)	12.0	26	1	N	NE	E	SE	S	SW	W	NW	4.0	L	Semi Mature	Structural condition Good. Physiological condition Good. No significant defects observed	11/05/2021	30.6	3.1	20-40	C1
Tree T6	1 Pyrus sp. (Pear sp.)	7.0	33 COM	2		2.9		2.5		4.0		3.1	0.5	L	Mature	Structural condition Fair. Physiological condition Poor. Dieback throughout crown Loss of bark around base	11/05/2021	51.1	4.0	10-20	C1
Tree T7	1 Crataegus monogyna (Common Hawthorn/Quick/May) 1 Prunus spinosa (Blackthorn/Sloe)	7.0	24 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	11/05/2021	26.1	2.9	10-20	C2
Tree T8	1 Crataegus monogyna (Common Hawthorn/Quick/May) 1 Prunus spinosa (Blackthorn/Sloe)	7.0	26 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	11/05/2021	30.6	3.1	10-20	C2
Group G9	1 Crataegus monogyna (Common Hawthorn/Quick/May) 1 Prunus sp. (Cherry sp.) 1 Prunus spinosa (Blackthorn/Sloe)	2.0	4 AVE	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Average stem diameter given Numbers in group not counted	11/05/2021	0.7	0.5	20-40	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T10	Juglans sp. (Walnut sp.)	10.0	48	1	N	NE	E	SE	S	SW	W	NW	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Lean to SE Broken branch Minor deadwood	11/05/2021	104.2	5.8	20-40	C1
Group G11	1 Crataegus monogyna (Common Hawthorn/Quick/May) 1 Prunus spinosa (Blackthorn/Sloe) 1 Pyrus sp. (Pear sp.) 1 Salix caprea (Goat Willow/Great Sallow) 1 Salix fragilis (Crack Willow) 1 Sambucus nigra (Elder)	7.0	15 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. From young to mature Average stem diameter given Numbers in group not counted Variable condition from good to dead	11/05/2021	10.2	1.8	10-20	C2
Group G12	4 Fraxinus excelsior (Ash)	6.0	12 AVE	1									0.5	N	Semi Mature	Structural condition Fair. Physiological condition Fair. Group if 4 planted semi-mature ash Average stem diameter given Susceptible to ash dieback	11/05/2021	6.5	1.4	10-20	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

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Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G13	1 Acer pseudoplatanus (Sycamore)	5.0	22 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Good screening value Average stem diameter given Numbers in group not counted	11/05/2021	21.9	2.6	20-40	C2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Sambucus nigra (Elder)																				
Group G14	2 Fraxinus excelsior (Ash)	5.0	10 AVE	1									1.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Group of 4 semi-mature planted trees - 2 oak and 2 ash The ash are poor form Average stem diameter given	11/05/2021	4.5	1.2	20-40	C2
	2 Quercus robur (English Oak)																				
Tree T15	1 Malus sp. (Apple sp.)	6.0	24 COM	3		3.1		3.1		3.1		2.4	1.0	L	Mature	Structural condition Poor. Physiological condition Dead. Dead tree	11/05/2021	27.7	3.0	0-10	U
Tree T16	1 Malus sp. (Apple sp.)	5.0	28 COM	4		3.7		3.0		3.6		2.5	1.0	L	Mature	Structural condition Fair. Physiological condition Fair. 1 of the 4 stems is dead	11/05/2021	37.5	3.5	10-20	C1
Tree T17	1 Fraxinus excelsior (Ash)	8.0	24 COM	2		2.5		3.0		2.5		2.7	2.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Has grown through fence Susceptible to ash dieback	11/05/2021	26.2	2.9	10-20	C1
Tree T18	1 Fraxinus excelsior (Ash)	11.0	53	1		4.2		6.0		6.0		5.5	2.0	L	Mature	Structural condition Fair. Physiological condition Poor. Pruned back from track Vertical epicormic growth on limbs possible early stage of ash dieback Dieback in upper crown	13/05/2021	127.1	6.4	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T19	1 Fraxinus excelsior (Ash)	11.0	38	1		3.9		3.8		3.1		4.2	2.0	L	Mature	Structural condition Fair. Physiological condition Poor. Ash dieback suspected Dieback in lower crown	11/05/2021	65.3	4.6	0-10	U
Tree T20	1 Fraxinus excelsior (Ash)	14.0	46	1		5.3		4.5		4.4		5.2	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Pruned back from track Vertical epicormic growth on limbs possible early stage of ash dieback	11/05/2021	95.7	5.5	10-20	C1
Tree T21	1 Fraxinus excelsior (Ash)	14.0	41	1		5.8		2.0		3.5		4.2	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Pruned back from track Vertical epicormic growth on limbs possible early stage of ash dieback Large decayed wound on NW side of stem from ground level to 3 metres - Daldinia concentrica present Major deadwood	11/05/2021	76.0	4.9	10-20	C1
Group G22	1 Crataegus monogyna (Common Hawthorn/Quick/May)	9.0	20 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	11/05/2021	18.1	2.4	20-40	C2
	1 Fraxinus excelsior (Ash)																				
Group G23	1 Crataegus monogyna (Common Hawthorn/Quick/May)	5.0	12 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Gappy group Includes gorse Average stem diameter given Numbers in group not counted	11/05/2021	6.5	1.4	10-20	C2
	1 Sambucus nigra (Elder)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G24		5.0	14	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Gappy group Includes gorse Average stem diameter given Numbers in group not counted	11/05/2021	8.9	1.7	20-40	C2
Group G25	6 Acer campestre (Field Maple)	2.0	1 AVE	1									0.4	N	Young	Structural condition Fair. Physiological condition Fair. Group of 6 young planted field maple All have bark wounds at the base	13/05/2021	0.0	0.1	20-40	C2
Group G26	1 Crataegus monogyna (Common Hawthorn/Quick/May)	3.0	12	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Unmanaged hawthorn group with bramble Average stem diameter given Numbers in group not counted	11/05/2021	6.5	1.4	20-40	C2
Group G27	12 Acer campestre (Field Maple)	3.0	3 AVE	1									0.5	N	Young	Structural condition Fair. Physiological condition Fair. Group of 12 young planted field maple	11/05/2021	0.4	0.4	20-40	C2
Hedge H28	1 Crataegus monogyna (Common Hawthorn/Quick/May)	5.0	12	1									0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Side has been flailed Good screening value Average stem diameter given Numbers in group not counted	11/05/2021	6.5	1.4	20-40	C2
Tree T29	1 Aesculus hippocastanum (Horse Chestnut)	10.0	40	1		6.1		4.0		5.1		6.0	4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	11/05/2021	72.4	4.8	10-20	C1
Tree T30	1 Aesculus hippocastanum (Horse Chestnut)	10.0	59	1		5.7		5.4		5.4		6.0	4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Flailed back from road	11/05/2021	157.5	7.1	10-20	B1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T31	1 Aesculus hippocastanum (Horse Chestnut)	9.0	45	1		5.2		3.6		4.1		5.0	3.0	L	Mature	Structural condition Fair. Physiological condition Poor. Tree is in decline Significant dieback throughout crown Unable to assess fully due to extent of ivy Major deadwood	11/05/2021	91.6	5.4	0-10	U
Tree T32	1 Prunus cerasifera 'Nigra' (Purple Cherry Plum)	5.0	30	1		2.0		2.0		2.0		2.0	1.0	L	Mature	Structural condition Fair. Physiological condition Fair. Phellinus pomaceus on dead limb	11/05/2021	40.7	3.6	10-20	C1
Tree T33	1 Tilia sp. (Lime sp.)	12.0	48	1		4.8		5.5		6.2		5.0	3.0	L	Mature	Structural condition Good. Physiological condition Good. No significant defects observed	11/05/2021	104.2	5.8	20-40	B1/B2
Tree T34	1 Tilia sp. (Lime sp.)	12.0	48	1		4.8		3.5		5.0		5.0	2.0	L	Mature	Structural condition Good. Physiological condition Good. No significant defects observed	11/05/2021	104.2	5.8	20-40	B1/B2
Tree T35	1 Tilia sp. (Lime sp.)	14.0	60	1		7.5		7.8		7.5		7.5	3.0	L	Mature	Structural condition Good. Physiological condition Good. Major deadwood	11/05/2021	162.9	7.2	20-40	B1/B2
Tree T36	1 Fagus sylvatica f. purpurea (Purple Beech)	14.0	70	1		6.2		9.3		7.1		7.0	2.0	M	Mature	Structural condition Good. Physiological condition Good. Decayed pruning wounds Crown unbalanced due to adjacent tree	11/05/2021	221.7	8.4	20-40	B1/B2
Tree T37	1 Tilia sp. (Lime sp.)	14.0	60	1		6.5		5.9		6.0		6.0	2.0	L	Mature	Structural condition Good. Physiological condition Good. No significant defects observed	11/05/2021	162.9	7.2	20-40	B1/B2
Tree T38	1 Tilia sp. (Lime sp.)	14.0	55	1		6.2		6.2		6.2		6.2	2.0	L	Mature	Structural condition Good. Physiological condition Fair. Minor dieback throughout crown	11/05/2021	136.8	6.6	20-40	B2
Tree T39	1 Tilia sp. (Lime sp.)	12.0	50	1		5.0		6.0		6.0		6.0	0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	11/05/2021	113.1	6.0	20-40	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T40	Tilia sp. (Lime sp.)	12.0	50	1	N	NE	E	SE	S	SW	W	NW	0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Decayed pruning wounds	11/05/2021	113.1	6.0	20-40	B2
Tree T41	1 Tilia sp. (Lime sp.)	14.0	50	1		6.0		6.0		6.0		6.0	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	11/05/2021	113.1	6.0	20-40	B2
Tree T42	1 Tilia sp. (Lime sp.)	14.0	50	1		4.5		4.5		4.5		4.5	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	11/05/2021	113.1	6.0	20-40	B2
Tree T43	1 Tilia sp. (Lime sp.)	14.0	50	1		4.5		4.5		4.5		4.5	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	11/05/2021	113.1	6.0	20-40	B2
Group G44	1 Crataegus monogyna (Common Hawthorn/Quick/May) 1 Tilia sp. (Lime sp.)	7.0	15 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Stems other side of ditch Younger limes in group with max dbh of 28cm Unmanaged group Provides screening Average stem diameter given Numbers in group not counted	12/05/2021	10.2	1.8	20-40	C2
Hedge H45	1 Ligustrum sp. (Privet sp.)	3.0	2	1									0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Managed hedge Has screening value Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	20-40	C2
Group G46	1 Crataegus monogyna (Common Hawthorn/Quick/May) 1 Sambucus nigra (Elder)	6.0	18 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unmanaged group that probably originated as a hedgerow Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	14.7	2.2	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T47	1 Quercus robur (English Oak)	16.0	50	1	8.0		8.0		8.0		8.0		4.0	L	Mature	Structural condition Good. Physiological condition Good. Stem on other side of ditch No significant defects observed Unable to access base	12/05/2021	113.1	6.0	40+	A1/A2
Group G48	1 Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	18	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unmanaged group that probably originated as a hedgerow Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	14.7	2.2	20-40	B2
	1 Malus sp. (Apple sp.)		AVE																		
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Salix fragilis (Crack Willow)																				
	1 Sambucus nigra (Elder)																				
Hedge H49	1 Ligustrum sp. (Privet sp.)	3.0	3	1									0.0	N	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	0.4	0.4	20-40	C2
Hedge H50	1 Laurocerasus officinalis (Cherry Laurel)	4.0	12	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Poorly pruned Average stem diameter given Numbers in group not counted	12/05/2021	6.5	1.4	10-20	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H51	1 Laurocerasus officinalis (Cherry Laurel)	4.0	12	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Poorly pruned Average stem diameter given Numbers in group not counted	12/05/2021	6.5	1.4	10-20	C2
Group G52	1 Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	18 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unmanaged group that probably originated as a hedgerow Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	14.7	2.2	20-40	B2
	1 Malus sp. (Apple sp.)																				
	1 Prunus cerasifera (Cherry Plum (Myrobalan))																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Salix fragilis (Crack Willow)																				
	1 Sambucus nigra (Elder)																				
Group G53	1 Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	18 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unmanaged group that probably originated as a hedgerow Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	14.7	2.2	20-40	B2
	1 Sambucus nigra (Elder)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G54	Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	18 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unmanaged group that probably originated as a hedgerow Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch Extensive ivy A couple of stems gave died / snapped	12/05/2021	14.7	2.2	20-40	C2
	1 Ilex aquifolium (Holly)																				
	1 Sambucus nigra (Elder)																				
Tree T55	1 Malus sp. (Apple sp.)	6.0	50	1	5.0		5.0		5.0		5.0		0.0	M	Mature	Structural condition Fair. Physiological condition Fair. Decayed stem Unable to access base Stem on other side of ditch	12/05/2021	113.1	6.0	20-40	C1
Group G56	1 Acer campestre (Field Maple)	14.0	30 AVE	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	40.7	3.6	40+	A2
	1 Quercus robur (English Oak)																				
Tree T57	1 Aesculus hippocastanum (Horse Chestnut)	12.0	48	1		7.0		5.0		6.0		5.0	1.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	104.2	5.8	20-40	B2
Tree T58	1 Acer pseudoplatanus (Sycamore)	18.0	80	1		6.0		8.0		8.0		5.0	5.0	M	Mature	Structural condition Poor. Physiological condition Fair. Extensive decay at base Ganoderma fruiting bodies Unable to access base Stem on other side of ditch	12/05/2021	289.5	9.6	0-10	U
Tree T59	1 Acer pseudoplatanus (Sycamore)	18.0	80	1		6.0		5.0		8.0		5.0	5.0	M	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base Stem on other side of ditch	12/05/2021	289.5	9.6	20-40	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T60	1 Acer pseudoplatanus (Sycamore)	18.0	80	1		6.0		5.0		8.0		6.0	5.0	M	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base Stem on other side of ditch	12/05/2021	289.5	9.6	20-40	B1/B2
Group G61	1 Acer pseudoplatanus (Sycamore)	6.0	12	1									0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch Unmanaged group that probably originated as a hedgerow A hawthorn has collapsed	12/05/2021	6.5	1.4	10-20	C2
	1 Aesculus hippocastanum (Horse Chestnut)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
Group G62	1 Acer campestre (Field Maple)	14.0	30	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	40.7	3.6	40+	A2
Group G63	1 Acer campestre (Field Maple)	6.0	18	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch Unmanaged group that probably originated as a hedgerow Sycamore has been topped at 2 metres	12/05/2021	14.7	2.2	10-20	C2
	1 Acer pseudoplatanus (Sycamore)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G64	1 Cupressus sp. (Cypress sp.)	4.0	15	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Topped at 4 metres Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	10.2	1.8	10-20	C2
Group G65	1 Aesculus hippocastanum (Horse Chestnut)	6.0	12 AVE	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	6.5	1.4	20-40	B2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Prunus cerasifera (Cherry Plum (Myrobalan))																				
	1 Prunus spinosa (Blackthorn/Sloe)																				
	1 Sambucus nigra (Elder)																				
Tree T66	1 Fraxinus excelsior (Ash)	12.0	50	1	8.0		6.0		8.0		4.0		4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch Unable to access base Extensive vertical epicormic growth could be a sign of early stage ash dieback	12/05/2021	113.1	6.0	10-20	C1
Group G67	1 Cupressus sp. (Cypress sp.)	8.0	20 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	18.1	2.4	20-40	C2
	1 Ligustrum sp. (Privet sp.)																				

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G68	1 Ligustrum sp. (Privet sp.)	3.0	6	1									0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	1.6	0.7	20-40	C2
Group G69	1 Laurocerasus officinalis (Cherry Laurel)	6.0	12	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	6.5	1.4	10-20	C2
Tree T70	1 Fraxinus excelsior (Ash)	12.0	60	1		8.0		6.0		8.0		6.0	4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch Unable to access base Extensive vertical epicormic growth could be a sign of early stage ash dieback	12/05/2021	162.9	7.2	10-20	C1
Tree T71	1 Fraxinus excelsior (Ash)	12.0	60	1		8.0		6.0		8.0		6.0	4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch Unable to access base Susceptible to ash dieback	12/05/2021	162.9	7.2	10-20	C1
Tree T72	1 Fraxinus excelsior (Ash)	12.0	60	1		6.0		8.0		7.0		3.0	4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch Unable to access base Susceptible to ash dieback	12/05/2021	162.9	7.2	10-20	C1
Tree T73	1 Salix babylonica (Weeping Willow)	14.0	90	1		8.0		10.0		8.0		8.0	0.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has shed major limb Fractured limbs Poor form	12/05/2021	366.4	10.8	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H74	1 Acer campestre (Field Maple)	1.8	2 AVE	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedgerow - predominantly hawthorn Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	0.2	0.2	40+	C2
	1 Corylus avellana (Common Hazel)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Swida sanguinea (Common Dogwood)																				
	1 Viburnum opulus (Guelder Rose)																				
Hedge H75	1 Cupressus sp. (Cypress sp.)	4.0	5	1									0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	1.1	0.6	10-20	C2
Hedge H76	1 Cupressus sp. (Cypress sp.)	4.0	5	1									0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	1.1	0.6	10-20	C2
Tree T77	1 Picea abies (Norway Spruce)	9.0	23 COM	2		2.0		2.0		2.0		2.0	1.5	L	Early Mature	Structural condition Fair. Physiological condition Fair. Unremarkable tree	12/05/2021	24.8	2.8	10-20	C1
Tree T78	1 Cupressus sp. (Cypress sp.)	11.0	35	1		2.5		2.5		2.5		2.5	1.5	L	Mature	Structural condition Fair. Physiological condition Fair. Unremarkable tree	12/05/2021	55.4	4.2	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T79	1 Cupressus sp. (Cypress sp.)	11.0	26 COM	5	N	NE	E	SE	S	SW	W	NW	1.5	L	Mature	Structural condition Fair. Physiological condition Fair. Unremarkable tree	12/05/2021	32.6	3.2	10-20	C1
Tree T80	1 Sorbus aria (Whitebeam)	7.0	35 COM	2	N	NE	E	SE	S	SW	W	NW	2.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Topped at 7 metres Unable to access base	12/05/2021	56.5	4.2	10-20	C1
Hedge H81	1 Laurocerasus officinalis (Cherry Laurel) 1 Ligustrum sp. (Privet sp.)	1.0	2 AVE	1	N	NE	E	SE	S	SW	W	NW	0.0	N	Young	Structural condition Good. Physiological condition Good. Average stem diameter given Numbers in group not counted Stems other side of ditch	12/05/2021	0.2	0.2	20-40	C2
Tree T82	1 Crataegus monogyna (Common Hawthorn/Quick/May)	8.0	30	1	N	NE	E	SE	S	SW	W	NW	0.5	L	Mature	Structural condition Fair. Physiological condition Fair. Large for species	12/05/2021	40.7	3.6	20-40	B1
Tree T83	1 Prunus sp. (Cherry sp.)	9.0	35	1	N	NE	E	SE	S	SW	W	NW	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base Unable to assess fully due to extent of ivy	12/05/2021	55.4	4.2	10-20	C1
Hedge H84	1 Laurocerasus officinalis (Cherry Laurel)	3.0	8	1	N	NE	E	SE	S	SW	W	NW	0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	12/05/2021	2.9	1.0	20-40	C2
Hedge H85	1 Ligustrum sp. (Privet sp.)	1.0	4	1	N	NE	E	SE	S	SW	W	NW	0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	12/05/2021	0.7	0.5	20-40	C2
Hedge H86	1 Cupressus sp. (Cypress sp.)	1.5	4	1	N	NE	E	SE	S	SW	W	NW	0.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	12/05/2021	0.7	0.5	20-40	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H87	1 Acer campestre (Field Maple)	1.8	2 AVE	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedgerow - predominantly hawthorn Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	0.2	0.2	40+	C2
	1 Corylus avellana (Common Hazel)																				
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Swida sanguinea (Common Dogwood)																				
	1 Viburnum opulus (Guelder Rose)																				
Tree T88	1 Aesculus hippocastanum (Horse Chestnut)	9.0	26 COM	3		4.0		4.0		4.0		4.0	2.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch	12/05/2021	31.1	3.1	20-40	C1
Tree T89	1 Aesculus hippocastanum (Horse Chestnut)	9.0	31 COM	4		4.0		5.0		4.0		5.0	2.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch	12/05/2021	45.0	3.8	20-40	C1
Tree T90	1 Fraxinus excelsior (Ash)	12.0	45	1		5.0		5.0		5.0		5.0	5.0	L	Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch Vertical epicormic growth may be a sign of early stage ash dieback	12/05/2021	91.6	5.4	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H91	Corylus avellana (Common Hazel)	1.8	2 AVE	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedgerow - predominantly hawthorn Average stem diameter given Has screening value Numbers in group not counted Stems other side of ditch	12/05/2021	0.2	0.2	40+	C2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
	1 Swida sanguinea (Common Dogwood)																				
	1 Viburnum opulus (Guelder Rose)																				
Tree T92	1 Prunus sp. (Cherry sp.)	10.0	40 COM	5		4.0		5.0		4.0		5.0	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	73.3	4.8	10-20	C1
Tree T93	1 Prunus sp. (Cherry sp.)	10.0	28	1		4.0		4.0		4.0		4.0	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	35.5	3.4	10-20	C1
Tree T94	1 Prunus sp. (Cherry sp.)	10.0	42 COM	5		4.0		5.0		4.0		4.0	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base Significant dieback / decline	12/05/2021	80.5	5.1	0-10	U
Tree T95	1 Prunus sp. (Cherry sp.)	10.0	28	1		4.0		4.0		4.0		4.0	2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	35.5	3.4	10-20	C1
Tree T96	1 Crataegus monogyna (Common Hawthorn/Quick/May)	5.0	25	1		3.0		3.0		3.0		3.0	1.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	28.3	3.0	20-40	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T97	1 Fraxinus excelsior (Ash)	12.0	64 COM	3		7.0		7.0		7.0		7.0	1.0	L	Mature	Structural condition Fair. Physiological condition Fair. Stem on other side of ditch Unable to access base Vertical epicormic growth may be a sign of early stage ash dieback	12/05/2021	187.7	7.7	10-20	C1
Tree T98	1 Fraxinus excelsior (Ash)	12.0	58 COM	5		5.0		6.0		5.0		6.0	1.0	L	Mature	Structural condition Fair. Physiological condition Fair. Vertical epicormic growth may be a sign of early stage ash dieback	12/05/2021	156.9	7.1	10-20	C1
Hedge H99	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.0	5	1									0.0	L	Young	Structural condition Good. Physiological condition Good. Young managed hedgerow Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	1.1	0.6	20-40	C2
Tree T100	1 Sorbus aucuparia (Rowan/Mountain Ash)	5.0	12	1		2.5		2.5		2.5		2.5	0.5	L	Young	Structural condition Fair. Physiological condition Fair. Tight fork	12/05/2021	6.5	1.4	20-40	C1
Hedge H101	1 Fagus sylvatica (Common Beech)	2.0	2	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedge Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	40+	C2
Hedge H102	1 Fagus sylvatica (Common Beech)	2.0	2	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedge Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	40+	C2
Hedge H103	1 Ligustrum sp. (Privet sp.)	0.8	2	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedge Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	40+	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T104	1 Salix fragilis (Crack Willow)	5.0	36	1		3.0		5.0		3.0		5.0	1.0	L	Early Mature	Structural condition Fair. Physiological condition Poor. Unable to access base	12/05/2021	58.6	4.3	10-20	C1
Tree T105	1 Cupressus sp. (Cypress sp.)	6.0	24 COM	6		2.5		2.5		2.5		2.5	0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	27.1	2.9	20-40	C1
Tree T106	1 Cupressus sp. (Cypress sp.)	6.0	24 COM	6		3.5		3.5		3.5		3.5	0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base Pruned round electric pole	12/05/2021	27.1	2.9	20-40	C1
Hedge H107	1 Cupressus sp. (Cypress sp.)	1.0	2	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedge Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	40+	C2
Group G108	1 Cupressus sp. (Cypress sp.)	5.0	12	1									0.0	N	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	12/05/2021	6.5	1.4	20-40	C2
Tree T109	1 Robinia sp. (False Acacia sp.)	8.0	26 COM	2		3.0		3.0		3.0		3.0	2.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Topped at 5 metres	12/05/2021	32.8	3.2	10-20	C1
Tree T110	1 Robinia sp. (False Acacia sp.)	8.0	26 COM	2		2.5		2.5		2.5		2.5	2.0	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Topped at 5 metres Tight fork Dieback in crown	12/05/2021	32.8	3.2	10-20	C1
Tree T111	1 Betula pendula 'Pendula' (Weeping Silver Birch)	5.0	28	1		3.0		3.0		3.0		3.0	1.0	L	Mature	Structural condition Good. Physiological condition Good. Unable to access base	12/05/2021	35.5	3.4	10-20	C1
Tree T112	1 Betula pendula 'Pendula' (Weeping Silver Birch)	4.5	28	1		3.0		3.0		3.0		3.0	1.0	L	Mature	Structural condition Good. Physiological condition Good. Unable to access base	12/05/2021	35.5	3.4	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T113	1 Prunus cerasifera 'Nigra' (Purple Cherry Plum)	5.0	30	1	N	NE	E	SE	S	SW	W	NW	1.5	L	Mature	Structural condition Good. Physiological condition Good. Unable to access base	12/05/2021	40.7	3.6	20-40	C1
Tree T114	1 Prunus cerasifera 'Nigra' (Purple Cherry Plum)	5.0	30	1		2.0		2.0		2.0		2.0	1.5	L	Mature	Structural condition Good. Physiological condition Good. Unable to access base	12/05/2021	40.7	3.6	20-40	C1
Group G115	1 Cupressus sp. (Cypress sp.) 1 Ilex sp. (Holly sp.) 1 Laburnum sp. (Laburnum sp.) 1 Ligustrum sp. (Privet sp.) 1 Prunus cerasifera (Cherry Plum (Myrobalan))	6.0	15 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted Privet at lower level us managed as hedge	12/05/2021	10.2	1.8	10-20	C2
Hedge H116	1 Ligustrum sp. (Privet sp.)	1.8	3	1									0.0	L	Semi Mature	Structural condition Good. Physiological condition Good. Average stem diameter given Numbers in group not counted	12/05/2021	0.4	0.4	20-40	C2
Hedge H117	1 Ligustrum sp. (Privet sp.)	1.8	3	1									0.0	L	Semi Mature	Structural condition Good. Physiological condition Good. Average stem diameter given Numbers in group not counted	12/05/2021	0.4	0.4	20-40	C2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H118	1 Fagus sylvatica (Common Beech)	2.0	15	1									0.0	L	Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Average stem diameter given Numbers in group not counted	12/05/2021	10.2	1.8	20-40	B2
Hedge H119	1 Fagus sylvatica (Common Beech)	2.0	15	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Managed hedgerow Average stem diameter given Numbers in group not counted Some stems dead Lot of bramble	12/05/2021	10.2	1.8	10-20	C2
Tree T120	1 Fagus sylvatica f. purpurea (Purple Beech)	14.0	90	1		8.0		8.0		8.0		8.0	2.0	L	Mature	Structural condition Fair. Physiological condition Good. Tight fork Unable to access base	12/05/2021	366.4	10.8	20-40	B1/B2
Tree T121	1 Betula pendula (Silver Birch)	10.0	30	1	4.0		5.0		3.0		0.5		2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	12/05/2021	40.7	3.6	10-20	C1
Tree T122	1 Betula pendula (Silver Birch)	14.0	45	1	5.0		5.0		3.0		2.0		5.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	12/05/2021	91.6	5.4	10-20	C1
Tree T123	1 Betula pendula (Silver Birch)	14.0	30	1	5.0		2.0		4.0		2.0		5.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	12/05/2021	40.7	3.6	10-20	C1
Tree T124	1 Betula pendula (Silver Birch)	14.0	28	1	5.0		2.0		4.0		2.0		5.0	L	Mature	Structural condition Fair. Physiological condition Fair. No significant defects observed	12/05/2021	35.5	3.4	10-20	C1
Tree T125	1 Betula pendula (Silver Birch)	14.0	49	1	7.0		4.0		6.0		2.0		5.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	12/05/2021	108.6	5.9	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T126	1 Betula pendula (Silver Birch)	14.0	42	1	5.0		5.0		5.0		5.0		5.0	L	Mature	Structural condition Fair. Physiological condition Fair. Poor form Decayed pruning wounds	12/05/2021	79.8	5.0	10-20	C1
Hedge H127	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	14 AVE	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	8.9	1.7	20-40	B2
	1 Sambucus nigra (Elder)																				
Tree T128	1 Cupressus sp. (Cypress sp.)	12.0	45	1	4.0		4.0		4.0		4.0		2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	91.6	5.4	10-20	C1
Group G129	1 Cupressus sp. (Cypress sp.)	15.0	30	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unmanaged group of cypress - poor form and poor pruning	12/05/2021	40.7	3.6	10-20	C2
Tree T130	1 Fraxinus excelsior (Ash)	16.0	65	1	8.5		6.5		8.5		8.5		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Vertical epicormic on limbs may be a sign of early stage ash dieback Pruned back from road Unable to access base Unable to assess fully due to extent of ivy	12/05/2021	191.1	7.8	10-20	C1
Tree T131	1 Cupressus sp. (Cypress sp.)	14.0	50	1	4.0		4.0		4.0		4.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	113.1	6.0	10-20	C1
Tree T132	1 Cupressus sp. (Cypress sp.)	14.0	50	1	4.0		4.0		4.0		4.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	113.1	6.0	10-20	C1
Tree T133	1 Eucalyptus sp. (Eucalyptus Tree)	11.0	32 COM	2	3.0		6.0		4.0		1.0		0.5	L	Semi Mature	Structural condition Fair. Physiological condition Fair. Poor form	12/05/2021	47.2	3.9	20-40	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T134	1 Betula pendula (Silver Birch)	23.0	44 COM	2	6.0		8.0		4.0		5.0		4.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to assess fully due to extent of ivy	12/05/2021	90.5	5.4	10-20	C1
Tree T135	1 Cupressus sp. (Cypress sp.)	16.0	50	1	5.0		5.0		5.0		1.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base Poorly pruned	12/05/2021	113.1	6.0	10-20	C1
Tree T136	1 Sorbus aucuparia (Rowan/Mountain Ash)	9.0	19 COM	2	3.5		3.5		2.0		3.5		2.0	L	Early Mature	Structural condition Good. Physiological condition Good. Unable to access base	12/05/2021	17.6	2.4	10-20	C1
Group G137	1 Cupressus sp. (Cypress sp.)	16.0	30	1									0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Numbers in group not counted	12/05/2021	40.7	3.6	10-20	C2
Tree T138	1 Crataegus monogyna (Common Hawthorn/Quick/May)	7.0	16 AVE	1									0.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Average stem diameter given Has screening value Numbers in group not counted Unmanaged group that probably originated as a hedgerow	12/05/2021	11.6	1.9	20-40	C2
	1 Sambucus nigra (Elder)																				
Hedge H139	1 Fagus sylvatica (Common Beech)	2.0	2	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedge Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	20-40	C2
Hedge H140	1 Fagus sylvatica (Common Beech)	2.0	2	1									0.0	N	Young	Structural condition Good. Physiological condition Good. Young managed hedge Average stem diameter given Numbers in group not counted	12/05/2021	0.2	0.2	20-40	C2
Tree T141	1 Betula pendula (Silver Birch)	12.0	32	1	6.0		6.0		6.0		6.0		3.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	46.3	3.8	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

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Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T142	1 Populus alba (White Poplar/Abele)	18.0	42	1	6.0		5.0		2.0		5.0		4.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Lean over road	12/05/2021	79.8	5.0	20-40	C1
Tree T143	1 Populus alba (White Poplar/Abele)	16.0	42	1	5.0		5.0		2.0		2.0		3.0	L	Early Mature	Structural condition Fair. Physiological condition Fair. Lean over road	12/05/2021	79.8	5.0	20-40	C1
Tree T144	1 Populus alba (White Poplar/Abele)	18.0	86 COM	2	10.0		10.0		8.0		5.0		2.0	M	Mature	Structural condition Fair. Physiological condition Good. Unable to assess fully due to extent of ivy Significant in the landscape	12/05/2021	334.8	10.3	20-40	B1/B2
Tree T145	1 Populus alba (White Poplar/Abele)	18.0	104 COM	3	10.0		8.0		8.0		10.0		2.0	M	Mature	Structural condition Fair. Physiological condition Good. Unable to assess fully due to extent of ivy Significant in the landscape	12/05/2021	497.6	12.6	20-40	B1/B2
Tree T146	1 Populus alba (White Poplar/Abele)	18.0	72	1	10.0		8.0		8.0		4.0		2.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	234.5	8.6	20-40	B1/B2
Tree T147	1 Populus alba (White Poplar/Abele)	18.0	72	1	10.0		8.0		8.0		10.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape Minor colonisation by sesia apiformis	12/05/2021	234.5	8.6	20-40	B1/B2
Tree T148	1 Populus alba (White Poplar/Abele)	18.0	65	1	2.0		6.0		10.0		5.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	191.1	7.8	20-40	B1/B2
Tree T149	1 Populus alba (White Poplar/Abele)	18.0	66 COM	4	10.0		10.0		8.0		2.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape Moderate colonisation by sesia apiformis Tight forks at base	12/05/2021	201.0	8.0	20-40	B2
Tree T150	1 Populus alba (White Poplar/Abele)	18.0	57 COM	2	2.0		8.0		8.0		4.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape Moderate colonisation by sesia apiformis Tight forks at base	12/05/2021	150.2	6.9	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T151	1 Populus alba (White Poplar/Abele)	18.0	57 COM	2	4.0		6.0		2.0		6.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape Tight forks at base	12/05/2021	150.2	6.9	20-40	B2
Tree T152	1 Populus alba (White Poplar/Abele)	18.0	34	1	3.0		1.0		2.0		6.0		6.0	M	Early Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	52.3	4.1	20-40	B1/B2
Tree T153	1 Populus alba (White Poplar/Abele)	18.0	46	1	5.0		5.0		6.0		7.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	95.7	5.5	20-40	B1/B2
Tree T154	1 Populus alba (White Poplar/Abele)	18.0	34	1	6.0		1.0		5.0		6.0		6.0	M	Early Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	52.3	4.1	20-40	B1/B2
Tree T155	1 Populus alba (White Poplar/Abele)	12.0	32	1	5.0		6.0		4.0		1.0		1.0	M	Early Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	46.3	3.8	20-40	B1/B2
Tree T156	1 Populus alba (White Poplar/Abele)	18.0	100 COM	2	10.0		9.0		9.0		9.0		6.0	M	Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape Weak fork	12/05/2021	456.4	12.1	20-40	B1/B2
Tree T157	1 Populus alba (White Poplar/Abele)	12.0	32	1	3.0		1.0		3.0		5.0		1.0	M	Early Mature	Structural condition Fair. Physiological condition Good. Significant in the landscape	12/05/2021	46.3	3.8	20-40	B1/B2
Tree T158	1 Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	66 COM	11	5.0		5.0		5.0		5.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Very large and old for species	12/05/2021	199.1	8.0	10-20	C1
Tree T159	1 Sambucus nigra (Elder)	6.0	66 COM	11	5.0		6.0		5.0		5.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Very large and old for species	12/05/2021	199.1	8.0	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T160	Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	66 COM	11	5.0		5.0		5.0		5.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Very large and old for species	12/05/2021	199.1	8.0	10-20	C1
Tree T161	1 Crataegus monogyna (Common Hawthorn/Quick/May)	6.0	66 COM	11	5.0		5.0		5.0		5.0		0.0	L	Mature	Structural condition Fair. Physiological condition Fair. Very large and old for species	12/05/2021	199.1	8.0	10-20	C1
Hedge H162	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	12	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2
Hedge H163	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	12	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hawthorn hedgerow with occasional semi mature horse chestnut that are allowed to grow on Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2
Hedge H164	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	12	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2
Hedge H165	1 Crataegus monogyna (Common Hawthorn/Quick/May)	2.5	12	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H166	1 Acer pseudoplatanus (Sycamore)	2.5	12 AVE	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Gappy in places Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
Tree T167	1 Eucalyptus sp. (Eucalyptus Tree)	16.0	65	1	6.0		6.0		3.0		7.0		2.0	L	Mature	Structural condition Fair. Physiological condition Fair. Unable to access base	12/05/2021	191.1	7.8	10-20	C1
Hedge H168	1 Acer pseudoplatanus (Sycamore)	2.5	12 AVE	1									0.0	L	Early Mature	Structural condition Good. Physiological condition Good. Managed hedgerow Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2
	1 Crataegus monogyna (Common Hawthorn/Quick/May)																				
Tree T169	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T170	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T171	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T172	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.

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Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Tree T173	1 Acer pseudoplatanus (Sycamore)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T174	1 Aesculus hippocastanum (Horse Chestnut)	18.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T175	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T176	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T177	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		6.0		6.0		6.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	289.5	9.6	20-40	B2
Tree T178	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	6.0		1.0		6.0		6.0		1.0	M	Mature	Structural condition Poor. Physiological condition Dead. Dead tree Main stem has failed at 6 metres	12/05/2021	289.5	9.6	0-10	U
Tree T179	1 Aesculus hippocastanum (Horse Chestnut)	14.0	80	1	4.0		4.0		4.0		4.0		1.0	M	Mature	Structural condition Fair. Physiological condition Poor. Tree in significant decline	12/05/2021	289.5	9.6	0-10	U
Tree T180	1 Aesculus hippocastanum (Horse Chestnut)	18.0	100	1	9.0		9.0		9.0		9.0		1.0	M	Mature	Structural condition Fair. Physiological condition Fair. Has landscape value as part of group Unable to access base	12/05/2021	452.4	12.0	20-40	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Sutton Bridge

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	Bat Potential	Life stage	Condition Notes Recommendations	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Hedge H181	1	Acer pseudoplatanus (Sycamore)	3.0	12 AVE	1								0.0	L	Mature	Structural condition Good. Physiological condition Good. Managed hedgerow predominantly hawthorn with a couple of horse chestnut and 4 sycamore Average stem diameter given Has screening value Numbers in group not counted	12/05/2021	6.5	1.4	20-40	B2
	1	Aesculus hippocastanum (Horse Chestnut)																			
	1	Crataegus monogyna (Common Hawthorn/Quick/May)																			

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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Table 1 of BS5837 (2012)

Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see note)				
Category U 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	* Trees that have a 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) * Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline * Trees infected with pathogens of significance to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7	RED		
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Tree 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 dominant 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).	GREEN
Category B Trees of moderate quality 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 remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for 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.	BLUE
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 150 mm	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 benefits.	Trees with no material conservation or other cultural value.	GREY

Bat Potential Roost Feature

N: Negligible potential

L: Low potential

M: Moderate potential

H: High potential

C: Confirmed Roost

Appendix A2 – Tree Work Schedule

Tree Work Schedule

Site: Sutton Bridge Solar Grid

Date: November 2021

Tree / Group No.	Tag Number	Species	BS Category	Life Stage	Recommended works
G1		Mixed native species	C2	Young	Partial removal to facilitate development
G2		Mixed native species	C2	Young	Partial removal to facilitate development
G46		Hawthorn, elder	B2	Mature	Face back (reduce spread) to provide clearance for access
G48		Hawthorn, apple, blackthorn, willow, elder	B2	Mature	Face back (reduce spread) to provide clearance for access
G52		Hawthorn, apple, blackthorn, willow, elder, plum	B2	Mature	Face back (reduce spread) to provide clearance for access
G62		Field maple	A2	Early mature	Face back (reduce spread) to provide clearance for access
G65		Horse chestnut, hawthorn, plum, blackthorn, elder	B2	Mature	Face back (reduce spread) to provide clearance for access
T97		Ash	C1	Mature	Crown lift minor pendulous growth to give 2m clearance above ground level for operational access
T104		Willow	C1	Early mature	Crown lift minor pendulous growth to give 2m clearance above ground level for operational access
T157		Poplar	B1/B2	Early mature	Face back (reduce spread) to provide clearance for access
T158		Hawthorn	C1	Mature	Face back (reduce spread) to provide clearance for access
T159		Elder	C1	Mature	Crown lift minor pendulous growth to give 2m clearance above ground level for operational access
T160		Hawthorn	C1	Mature	Crown lift minor pendulous growth to give 2m clearance above ground level for operational access
T161		Hawthorn	C1	Mature	Crown lift minor pendulous growth to give 2m clearance above ground level for operational access
H162		Hawthorn	B2	Early mature	Face back (reduce spread) to provide clearance for access
H163		Hawthorn	B2	Early mature	Face back (reduce spread) to provide clearance for access
H165		Hawthorn	B2	Early mature	Face back (reduce spread) to provide clearance for access
H166		Sycamore, hawthorn	B2	Early mature	Face back (reduce spread) to provide clearance for access

Tree / Group No.	Tag Number	Species	BS Category	Life Stage	Recommended works

NOTE:

All tree works should comply with BS 3998 (2010) - Recommendations. If necessary, appropriate checks by a suitably qualified ecologist should be made before tree works are undertaken, and all works should only be carried out once planning permission has been granted and any pre-commencement planning conditions relating to tree work have been discharged. Where feasible and there is no risk of spreading diseases or pathogens, consider re-using timber from felled trees on site for creation of ecological habitat piles, furniture or woodchips for landscaping works.

Appendix B1 – Tree Survey Plans 1-14

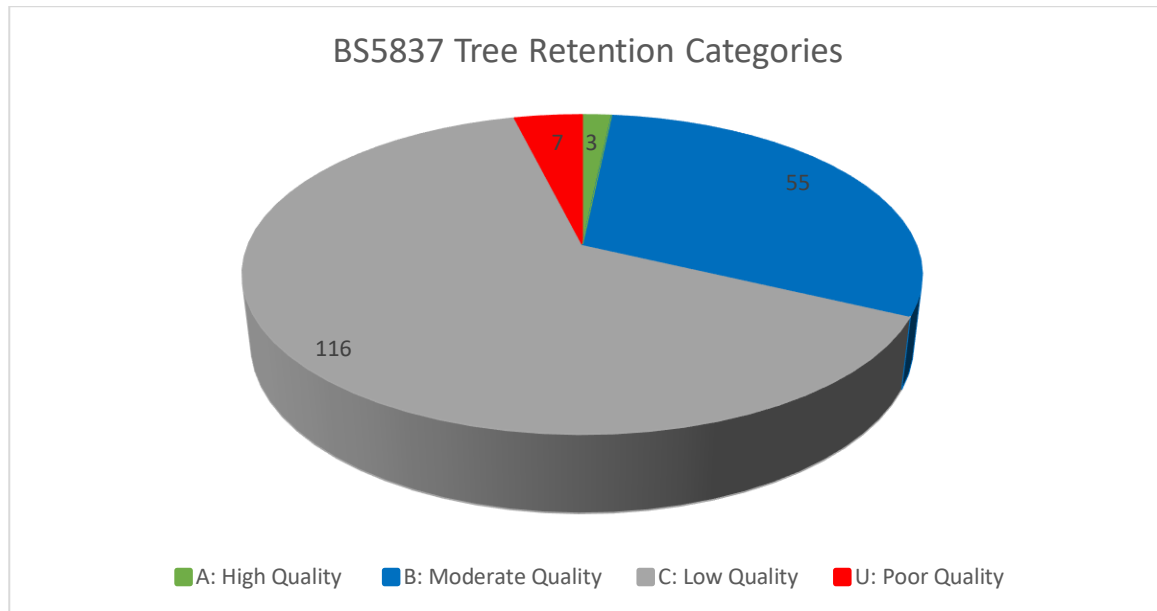
Appendix B2 – Proposal and Tree Work Plans 1-14

Appendix B3 –Arboricultural Method Statement Plan

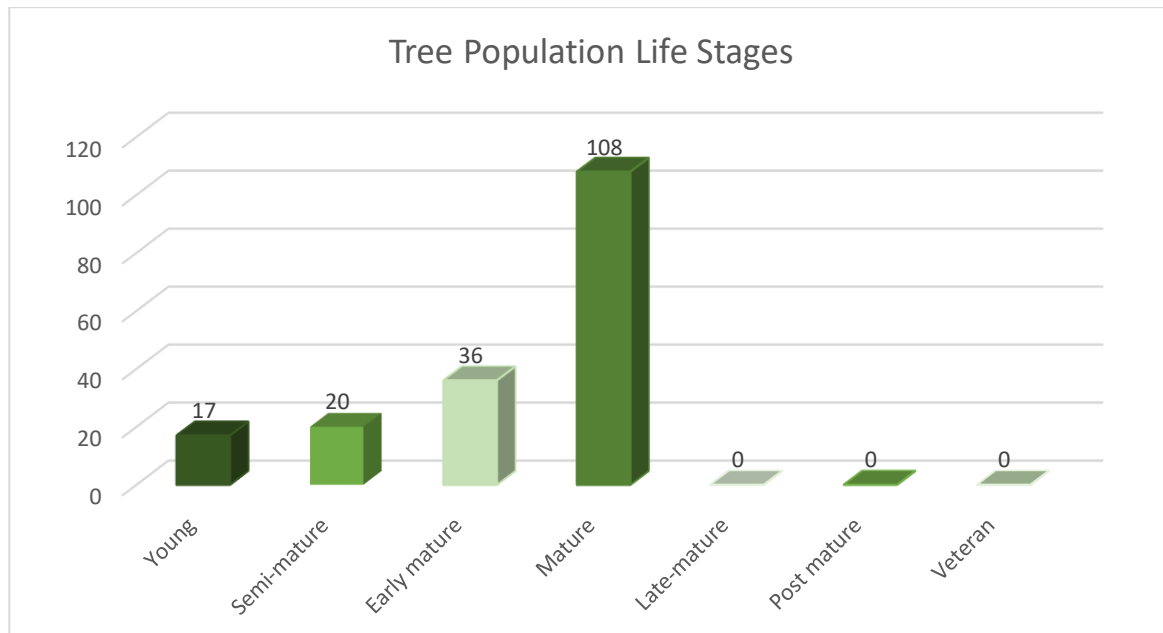
Appendix C – Tree Data Analysis

BS5837 (2012) quality and value of the tree population

A total of one hundred and sixteen individual trees, thirty two groups and thirty three hedges are included in the survey:



Life Stage



Appendix D – Qualifications

I am a qualified arboriculturist with significant experience in dealing with trees in relation to the living environment.

I am a Registered Chartered arboriculturist with the Institute of Chartered Foresters, a Fellow of the Arboricultural Association, a Chartered Environmentalist, and I have a Postgraduate Diploma in arboriculture and community forest management from Middlesex University, and a Higher National Diploma in arboriculture and I have over twenty years' experience in the field of arboriculture.

Tracy Clarke MICFor. F.Arbor.A. CEnv



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