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# Orchard Lane / East Molesey Arboricultural Site Survey - North

November 2022 | A3711

### Arboricultural Survey to BS5837:2012

Lifestyle Residences

Sundial House, Orchard Ln, Molesey, East Molesey, KT8 OBN

27 January 2022

Chris Wren

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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 19<sup>th</sup> January 2022 from Lifestyle Residences to attend Sundial House, Orchard Ln, Molesey, East Molesey, KT8 0BN; grid reference, TQ 14601 67353 (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 Tree Constraints Plan.

I am Chris Wren, an arboricultural consultant at Arbtech Consulting Ltd. I undertook the tree survey on 24<sup>th</sup> January 2022 and subsequently have produced this summary of my findings.

I have ten years of arboricultural industry experience and hold a BSc (Hons) in arboriculture and urban forestry. I also hold a LANTRA award in professional tree inspection. I am a professional member of the Arboricultural Association as well as an associate member of the Institute of Chartered Foresters.

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	3340 - 01
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 Chris Wren on 24<sup>th</sup> January 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 28No individual trees, 11No groups of trees, 1No woodlands were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

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

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

Document	Originator	Reference Number	Title
Торо	Mobile CAD surveying solutions	3340 - 01	Topographical 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 a care home with buildings on the southern half of the site and the northern half being semi managed greenspace. The site is uniformly level although the land on the western boundary drops down onto a tributary steam of the River Ember. The Site sits between the London Borough of Serbiton and the Island Barn Reservoir.

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Figure 1: OS Map (Bing Maps)



**Figure 2**: Aerial Image of site with approximate red line boundary and blue line denoting approximate area surveyed (Google Earth)



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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.

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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  $m^2$ .

### 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.

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## 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 onsite tree protection monitoring regime.

## 6. Recommendations

Currently there is no proposed scheme, however, should one be formulated we make the following recommendation to ensure that there are no irrevocable issues to the proposed retained trees and so that no conditions relating to arboriculture are attached to any planning consent secured; obtain an arboricultural report to include:

- a) An arboricultural impact assessment (AIA).
- b) An arboricultural method statement (AMS).
- c) A tree protection plan drawing (TPP).

## 7. 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.

## 8. 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,

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Chris Wren BSc (Hons) MArborA Graduate Arboriculturist

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





Identification on

plan

3 Mainly cultural values, including

conservation

Sundial House - Arbtech TSR 01

#### 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
outegoly and demittion	onteria (including suboutegones when appropriate

Trees unsuitable for retention (see Note)

Category U	• 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	
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> <li>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> <li>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7.</li> </ul>	Dark red

2 Mainly landscape qualities

1 Mainly arboricultural qualities

#### Trees to be considered for retention

Category A Trees of high quality 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> <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
Category C Trees of low quality 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

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Ecology - Protected Species - Licensing - Arboriculture - Biodiversity Net Gain - Land/Topographical Survey



## Appendix 2: Schedule of Trees

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Ecology - Protected Species - Licensing - Arboriculture - Biodiversity Net Gain - Land/Topographical Survey

BS5837:2012	2 Tree Survey
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#### Arbtech Consulting Ltd.

Client: Lifestyle Residences

Project: Sundial House, Orchard Ln, Molesey, East Molesey, KT8 0BN

Survey Date: 24/01/2022

Surveyor: Chris Wren

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#### Unit 3, Well House Barns Chester Road Chester Cheshire CH4 0DH Phone: 01244 661170

Tree and Tag No				Stems	Cr	rown			RP		<u>.</u>	Preliminary Recommendations	Cat ERC
Species		Hght (m)	No	Ø (mm)	Spread (m)		lear (m)	Age	A (m²) R (m)	Phys Condition	Structural Condition	Survey Comment	
G01									1				
Willow		7	1	290	Ν	3	1.5	М	A: 38.1	Good	C: Good		C.2
Salix sp.					Е	3	1.5		R: 3.48		S: Fair	Formally planted group of willow spp Group uniformly topped	20+ yrs
					S	3	1.5				B: Not visible	at 2m, regrowth up to 6m long and 80mm diameter. Basal	,
					W	3	1.5					area obscured by undergrowth. Dimensions recorded represent approximated average for the group.	
G02													
/arious		6.5	1	200	Ν	3	1	EM	A: 18.1	Good	C: Good		C.2
See comments for details					Е	3	2		R: 2.4		S: Good	Group primarily comprising of willow spp Basal area obscured	40+ yr:
					S	3	4				B: Not visible	by undergrowth. Dimensions recorded represent approximated	
					W	3	2					average for the group.	
G03												Estimated Mea	suremen
A Group		10	1	350	Ν	5	1	EM	A: 55.4	Good	C: Good		<b>B.2</b>
					Е	5	1		R: 4.19		S: Good	Group primarily comprising of C category willow, wild cherry,	40+ yrs
					S	5	1				B: Not visible	oak, hazel and sweet chestnut. Basal area obscured by	
					W	5	1					undergrowth. Dimensions recorded represent approximated average for the group.	
G04													
Common Oak		6	1	150	Ν	3	1	EM	A: 10.2	Good	C: Good		C.2
Quercus robur					Е	3	1		R: 1.8		S: Good	Group of three trees. Dimensions recorded represent	40+ yrs
					S W	3 3	1				B: Good	approximated average for the group.	
					vv	3	1						
Age Classifications:	N	Newly plant	ted	EM Early	/ Mature		C	ondit	ion: C	Crown		Stems: Ø Diameter	
	Y	Young		M Matu					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defir	nition
	SM	Semi-matur	re	OM Over	Mature				В	Basal area	a	ERC: Estimated Remaining Contributio	

Tree and Tag No		Uaht	S	tems		own			RP	Phys	Structural		Preliminary Recommendations	Cat
Species		Hght (m)	No	Ø (mm)	Spread (m)	Clea (m		ge	A (m²) R (m)	Condition	Condition		Survey Comment	ERC
G05														
Various		12	1	510	Ν	5	2 1	м.	A: 117.7	Good	C: Good			<b>B.2</b>
See comments for details					Е	4	2		R: 6.12		S: Good	Crour	primarily comprising of silver birch, oak and goat willow.	40+ yrs
					S	6	2				B: Not visible		area obscured by undergrowth. Dimensions recorded	,
					W	5	2						sent the largest measurement in each category.	
G06													Estimated Me	asurement
Various		12	1	510	Ν	5	2 1	М	A: 117.7	Good	C: Good			<b>B.2</b>
See comments for details					Е	5	2		R: 6.12		S: Not visible	Bound	dary/off site group. Locations and dimensions estimated	40+ yrs
					S	5	2				B: Not visible	due to	o lack of physical access. Group primarily comprising of	- / -
					W	5	2					ash. S	Stems and basal area obscured by undergrowth and	
													by. Dimensions recorded represent approximated average e group.	
G07													e group.	
Sycamore		11	1	320	N	5	2 1	м	A: 46.3	Good	C: Good			<b>B.2</b>
Acer pseudoplatanus		11	1	520	E	5	2		R: 3.83	0000	S: Good			
					S	5	2		11. 5.05		B: Not visible		area obscured by undergrowth. Dimensions recorded sent the largest measurement in each category.	40+ yrs
					W	4	2					repres	sent the largest measurement in each category.	
G08													Estimated Me	asurement
Various		8	1	280	Ν	5	2 1	М.	A: 35.5	Good	C: Good			<b>B.2</b>
See comments for details					Е	5	2		R: 3.36		S: Good			40+ yrs
					S	5	2				B: Good		te group primarily comprising of oak. Dimensions ded represent approximated average for the group.	-101 y13
					W	5	2							
G09														
Various		7	1	100	Ν	3	2 E	М	A: 4.5	Good	C: Good			C.2
See comments for details					Е	3	2		R: 1.19		S: Not visible	( TOUL	primarily comprising of oak, ash and hawthorn. Stems	20+ yrs
					S	3	2				B: Not visible	and b	basal area obscured by canopy and undergrowth.	
					W	3	2						ions estimated due to lack of physical access. Dimensions	
												record	ded represent approximated average for the group.	
Age Classifications:	N	Newly plante	ed	EM Early	Mature		Cor	nditio	on: C	Crown		Stems:	Ø Diameter	
	Y	Young		M Matu					S	Stem			(Eq) Equivalent stem diameter using BS5837:2012 def	inition
	SM	Semi-mature	•	OM Over	Mature				В	Basal area	a	ERC:	Estimated Remaining Contributio	
Page 2									TreeM	linder			26 Jar	nuary 2022

Species         (m)         No         (m)         Species         (m)         Species         Condition         Condition         Condition         Survey Comment           G10         A Group         1         150         N         2         1         R(m)         Good         Good         Group primarily comprising of ack. Dimensions recorded represent approximated average for the group.           G11         Variaus         5         1         250         N         3         2         N         A: 28.3         Good         C: Good         Group primarily comprising of ack. Dimensions recorded represent approximated average for the group.           Variaus         5         1         250         N         3         2         N         A: 28.3         Good         C: Good         Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.           Variaus         5         1         250         N         3         Z         N         A: 28.3         Good         C: Good         Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.           Totact         Common Adh         9         1         310         N         3         A         A: 3.72         Good         C: Good         <	Tree and Tag No		Hght		Stems		Crov				R		Phys		Structural		Preliminary Recommendations	Cat
	Species			No					r	Age								ERC
	G10																	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	A Group		4	1	150	Ν	2	2	1	EM	A: 10	).2	Good	C:	Good			C.2
GilW21B: Goodrepresent approximated average for the group.GilW2N32MA: 28.3GoodC: GoodGoodrepresent approximated average for the group.GilSee comments for detailsS1250N32MA: 28.3GoodC: GoodGoodGroup primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.TOIToi <td></td> <td></td> <td></td> <td></td> <td></td> <td>Е</td> <td>2</td> <td>2</td> <td>1</td> <td></td> <td>R: 1.</td> <td>8</td> <td></td> <td>S:</td> <td>Good</td> <td>Groun</td> <td>o primarily comprising of oak. Dimensions recorded</td> <td>40+ yrs</td>						Е	2	2	1		R: 1.	8		S:	Good	Groun	o primarily comprising of oak. Dimensions recorded	40+ yrs
G11       W       2       1         G11       Various       S       1       25       1       25       1       25       N       3       2       M       A: 28.3 B: Good       Good       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.         T01 $W$ 3       2       M       A: 33.5 Common Ash S: Not visible       Good       C: Good       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.         T01 $VW$ 3       2       M       A: 33.5 Common Ash S: Not visible       Good       C: Good       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.         T02 $VV$ 2       4       2       M       A: 30.1 W       Good       C: Good       C: Good       Gift ste tree. Lower 3m of stem and basal area obscured by $VV$ .         T03 $VV$ $VVV$ $VVV$ $VV$						S	2	<u>)</u>	1					B:	Good			10 1 10
See comments for details       E       3       2       R: 3       S: 6 God B: 6 God       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.         T01       Common Ash Fravirus excelsion       9       1       310       N       3       3       EM       A: 43.5       Good       C Good       C Good       E stimated Mee         Common Ash Fravirus excelsion       9       1       310       N       3       3       EM       A: 43.5       Good       C Good       C Good       Boundary tree. Lower 3m of stem and basal area obscured by w/w       E stimated Mee         C02       6       3       258       (E0) N       4       2       M       A: 30.1       Good       C Good       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.       E stimated Mee         C02       0       8       6       3       258       (E1) N       4       2       M       A: 30.1       Good       C Good       C Good       C food       S in to visible       Of site tree. Lower 3m of stem and basal area obscured by 2m boundary tence.       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary tence.       S in to visible       S in to visible       S in to visible       S in to visible       S in to						W	2	2	1									
See comments for details       E       3       2       R: 3       S: 6 God B: 6 God       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.         T01       Common Ash Fravirus excelsion       9       1       310       N       3       3       EM       A: 43.5       Good       C Good       C Good       E stimated Mee         Common Ash Fravirus excelsion       9       1       310       N       3       3       EM       A: 43.5       Good       C Good       C Good       Boundary tree. Lower 3m of stem and basal area obscured by w/w       E stimated Mee         C02       6       3       258       (E0) N       4       2       M       A: 30.1       Good       C Good       Group primarily comprising of apple and plum. Dimensions recorded represent approximated average for the group.       E stimated Mee         C02       0       8       6       3       258       (E1) N       4       2       M       A: 30.1       Good       C Good       C Good       C food       S in to visible       Of site tree. Lower 3m of stem and basal area obscured by 2m boundary tence.       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary tence.       S in to visible       S in to visible       S in to visible       S in to visible       S in to	G11																	
$\frac{1}{101} = \frac{1}{101} = \frac{1}$	Various		5	1	250	Ν	3	3	2	М	A: 28	3.3	Good	C:	Good			C.2
$\frac{1}{W} = \frac{1}{3} + \frac{1}{W} + + \frac{1}$	See comments for details					Е	3	3	2		R: 3			S:	Good	Groun	o primarily comprising of apple and plum. Dimensions	20+ yrs
TO1       TO1       Status       <						S	3	3	2					B:	Good			,
Common Ash Fravinus excelsior91310N3SEMA: 43.5GoodC:GoodGo						W	3	}	2									
Fraxinus excelsion       E       2       3       R: 3.72       S: Not visible B: Not visible B: Not visible B: Not visible       Boundary tree. Lower 3m of stem and basal area obscured by ivy.         TO2       Goat Willow Salix caprea       6       3       258 (Eq) N       4       2       M       A: 30.1 R: 3.09       Good S: Not visible B: Not visible       Boundary tree. Lower 3m of stem and basal area obscured by ivy.       Estimated Mea         TO3       6       3       258 (Eq) N       4       2       M       A: 14.7 R: 2.16       Good S: Not visible B: Not visible       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary fence.       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary fence.         TO3       7       8       1       2       M       A: 14.7 R: 2.16       Good S: Not visible B: Not visible       Off site tree. Stem and basal area obscured by crown and 2m boundary fence.       Off site tree. Stem and basal area obscured by crown and 2m boundary fence.         T04       2       382 (Eq) N       3       M       A: 66.1 R: 4.58       Good S: Not visible B: Good       Cit Good S: Not visible B: Good       Stems: (O Diameter (Eq) Equivalent stem diameter using BSS837:2012 definition (Eq) (Eq) (Eq) (Eq) (Eq) (Eq) (Eq) (Eq)	T01																Estimated Me	asurement
Since with a set of the	Common Ash		9	1	310	Ν	3	3	3	EM	A: 43	3.5	Good	C:	Good			C.1
S       2       4       B: Not visible       ivy.         TO2       702       8       Not visible       ivy.         Goat Willow Salix caprea       6       3       258       (Eq) N       4       2       M       A: 30.1 B: Not visible       Good       C: Good       Off site free. Lower 2m of stem and basal area obscured by 2m boundary fence.       Off site free. Lower 2m of stem and basal area obscured by 2m boundary fence.       Off site free. Lower 2m of stem and basal area obscured by 2m boundary fence.       Off site free. Lower 2m of stem and basal area obscured by 2m boundary fence.         TO3       Common Holly Ilex aquifolium       5       1       180       N       1       2       M       A: 14.7 S       Good       C: Good       Off site free. Stem and basal area obscured by crown and 2m boundary fence.         TO4       Lawson Cypress Chamaecyparis lawsoniana       10       2       382       3       M       A: 66.1 S       Good       C: Good S: Not visible B: Good       Stem:       Ø       Diameter (Eq) Equivalent stem diameter using BS5837.2012 definiter         Age Classifications:       N       Newly planted Semi-mature       EM       Eating Mature M Mature       Condition: S       C       Crown B       Stem: B Basal area       Ø       Diameter (Eq) Equivalent stem diameter using BS5837.2012 definiter       Bit for the for the for the for	Fraxinus excelsior					E	2	2	3		R: 3.	72		S:	Not visible	Bound	dary tree. Lower 3m of stem and basal area obscured by	10+ yrs
TO2       Goad Willow       Safix caprea       6       3       258       (Eq) N       4       2       M       A: 30.1       Good       C:       Good </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td>2</td> <td>2</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td>В:</td> <td>Not visible</td> <td></td> <td>dary tree. Eswer sin of stem and basic area obsected by</td> <td>- , -</td>						S	2	2	4					В:	Not visible		dary tree. Eswer sin of stem and basic area obsected by	- , -
Goat Willow Salix caprea       6       3       258       (Eq) N       4       2       M       A: 30.1       Good       C: Good       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary fence.       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary fence.       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary fence.         T03       T03       Tot Site and tree obscured by 2m boundary fence.       Tot Site and tree obscured by 2m						W	2	2	4							,		
Salix caprea       E       3       2       R: 3.09       S: Not visible       Off site tree. Lower 2m of stem and basal area obscured by 2m boundary fence.         T03       T03<	T02																Estimated Me	asurement
S       3       4       B: Not visible       Off site tree. Lower 2m of stem and basal area doscured by 2m boundary fence.         T03       T03 <t< td=""><td>Goat Willow</td><td></td><td>6</td><td>3</td><td>258</td><td>(Eq) N</td><td>4</td><td>1</td><td>2</td><td>М</td><td>A: 30</td><td>0.1</td><td>Good</td><td>C:</td><td>Good</td><td></td><td></td><td><b>B.1</b></td></t<>	Goat Willow		6	3	258	(Eq) N	4	1	2	М	A: 30	0.1	Good	C:	Good			<b>B.1</b>
Signal       Signal       Signal       Bit Not visible       2m boundary fence.       2m boundary fence.         T03       T03       To3       To3 <td>Salix caprea</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>R: 3.</td> <td>09</td> <td></td> <td>S:</td> <td>Not visible</td> <td>Off sit</td> <td>te tree. Lower 2m of stem and basal area obscured by</td> <td>20+ yrs</td>	Salix caprea								2		R: 3.	09		S:	Not visible	Off sit	te tree. Lower 2m of stem and basal area obscured by	20+ yrs
T03       Common Holly       5       1       2       M       A: 14.7       Good       C:       Good       Git anteter       Git an						S	3	3	4					B:	Not visible			,
Common Holly Ilex aquifolium       5       1       180       N       1       2       M       A: 14.7       Good       C:       Good       C:       Good       Good       C: <th< td=""><td></td><td></td><td></td><td></td><td></td><td>W</td><td>5</td><td>5</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>						W	5	5	1									
Ilex aquifolium       E       1.5       2       R: 2.16       S: Not visible       Off site tree. Stem and basal area obscured by crown and 2m boundary fence.         T04       Image: Chamaecyparis lawsoniana       10       2       382       (Eq) N       3       M       A: 66.1       Good       C: Good       Cf site tree. Stem and basal area obscured by crown and 2m boundary fence.       Estimated Mean         Age Classifications:       N       Newly planted Y       EM       Early Mature N       Condition:       C       Crown S       Stems:       Ø Diameter (Eq) indicated Remaining Contributio         M       Semi-mature       OM       Over Mature       E       S: Stem       ERC:       Estimated Remaining Contributio	Т03																Estimated Me	asurement
S       1.5       2       B: Not visible       On site tree. stem and basis area obscured by chown and 2m boundary fence.         T04       Ministry       Ministry       Ministry       Estimated Measurements       Estimate       Estimated Measurements       Estimated Measurements <t< td=""><td>Common Holly</td><td></td><td>5</td><td>1</td><td>180</td><td>Ν</td><td>1</td><td>L</td><td>2</td><td>М</td><td>A: 14</td><td>1.7</td><td>Good</td><td>C:</td><td>Good</td><td></td><td></td><td>C.1</td></t<>	Common Holly		5	1	180	Ν	1	L	2	М	A: 14	1.7	Good	C:	Good			C.1
Solution       Solution       Solution       B: Not visible       boundary fence.         T04       Image: Solution Cypress       Image: Solu	Ilex aquifolium					E	1.5	5	2		R: 2.	16		S:	Not visible	Off sit	te tree. Stem and basal area obscured by crown and 2m	20+ yrs
TO4       To4       Estimated Mean         Lawson Cypress       10       2       382       (Eq) N       3       3       M       A: 66.1       Good       C:       Good       C:       Good       C:       Good       Off site tree. Stem obscured by crown. Stem bifurcates at ground level, union included.       Off site tree. Stem obscured by crown. Stem bifurcates at ground level, union included.       Off site tree. Stem obscured by crown. Stem bifurcates at ground level, union included.       Off site tree. Stem obscured by crown. Stem bifurcates at ground level, union included.         Age Classifications:       N       Newly planted       EM       Early Mature       Condition:       C       Crown       Stems:       Ø       Diameter (Eq)       Equivalent stem diameter using BS5837:2012 define B         SM       Semi-mature       OM       Over Mature       V       B       Basal area       ERC:       Estimated Remaining Contributio						S	1.5	5	2					B:	Not visible			,
Lawson Cypress Chamaecyparis lawsoniana Chamaecyparis lawsoniana M Newly planted Y Young SM Semi-mature OM Over Mature M Nature M Nature						W	1.5	5	1									
Chamaecyparis lawsoniana       E       3       2       3       R: 4.58       S: Not visible       Off site tree. Stem obscured by crown. Stem bifurcates at ground level, union included.         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 defined B         SM       Semi-mature       OM       Over Mature       B       Basal area       ERC:       Estimated Remaining Contributio	T04																Estimated Me	asurement
Age Classifications:       N       Newly planted Y       Em       Early Mature M       Condition:       C       Crown S       Stems:       Ø       Diameter Diameter         M       Semi-mature       OM       Over Mature       Condition:       C       Crown S       Stems:       Ø       Diameter         ERC:       Estimated Remaining Contributio	Lawson Cypress		10	2	382	(Eq) N	3	3	3	М	A: 6	5.1	Good	C:	Good			<b>B.1</b>
Age Classifications:       N       Newly planted Y       Em       Early Mature M       Condition:       C       Crown S       Stems:       Ø       Diameter         M       Semi-mature       OM       Over Mature       Condition:       C       Crown S       Stems:       Ø       Diameter         ERC:       Estimated Remaining Contributio	Chamaecyparis lawsoniana					Е	3	3	3		R: 4.	58		S:	Not visible	Off cit	te tree. Stem obscured by crown. Stem hifurcates at	20+ yrs
Age Classifications:       N       Newly planted Y       EM       Early Mature M       Condition:       C       Crown       Stems:       Ø       Diameter         Y       Young SM       M       Mature       Condition:       C       Crown       Stems:       Ø       Diameter         B       Basal area       ERC:       Estimated Remaining Contributio						S	2	2	3					B:	Good			- , -
Y       Young       M       Mature       S       Stem       (Eq) Equivalent stem diameter using BS5837:2012 defined in the stem dinthe stem diameter using BS5837:2012 defined						W	2	2	2							U		
Y       Young       M       Mature       S       Stem       (Eq) Equivalent stem diameter using BS5837:2012 defined in the stem dinthe stem diameter using BS5837:2012 defined	Age Classifications:	N	Newly planted	d	EM E	Early Mature	е		С	ondi	tion:	С	Crown			Stems:	Ø Diameter	
						-												inition
		SM	Semi-mature		OM (	Over Mature	Э					В	Basal area	1		ERC:	Estimated Remaining Contributio	
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Tree and Tag No		Hght	Stems		Crown				RP	Phys	Structural	Preliminary Recommendations	Cat	
Species		(m)	No	Ø (mm)	Spread (m)		ear n)	Age	A (m²) R (m)	Condition	Condition		Survey Comment	ERC
T05													Estimated Mo	easurements
Sycamore		11	2	502 (E	q) N	6	4	М	A: 114.1	Good	C: Good			<b>B.1</b>
Acer pseudoplatanus					E	4	4		R: 6.02		S: Good	Off cit	e tree. Lower 2m of stem, stem union and basal area	20+ yrs
					S	4	4				B: Not visible		red by 2m boundary fence.	201 910
					W	5	4					00000		
T06													Estimated Mo	easurements
Common Ash		11	1	550	Ν	6	5	М	A: 136.9	Good	C: Good			B.1
Fraxinus excelsior					Е	6	5		R: 6.6		S: Fair	Off cit	a trad. Crown historically tannad and lannad to 1 Em	20+ yrs
					S	6	5				B: Not visible	within	e tree. Crown historically topped and lopped to 1.5m current dimensions. Regrowth up to 5m long and 70mm	201 yi3
					W	6	5						ter. Wounds up to 90mm diameter with no callus wood	
												2m) th	. Major deadwood (>75mm diameter and/or longer than aroughout crown. Lower 2m of stem and basal area red by undergrowth.	
T07													Estimated M	easurements
Common Oak		10	3	708 (E	а) N	3	4	м	A: 226.7	Good	C: Good			<b>B.1</b>
Quercus robur					E	6	2		R: 8.49		S: Good	011		40+ yrs
<u> </u>					S	6	3				B: Not visible		e tree. Stem diverges at 1.5m, unions included. Lower of stem and basal area obscured by undergrowth.	40+ yis
					W	6	5					1	stem and basic area obsecred by undergrowth.	
Т08														
Common Oak		11	1	550	Ν	6	2	М	A: 136.9	Good	C: Good			B.1
Quercus robur					Е	6	0		R: 6.6		S: Good	No sia	nificant features noted at time of survey.	40+ yrs
					S	6	0				B: Good	NO SIG	nincant reactives noted at time of survey.	10 1 110
					W	6	0							
Т09														
Turkey Oak		10	1	240	Ν	5	1	М	A: 26.1	Good	C: Good			<b>B.1</b>
Quercus cerris					Е	5	0		R: 2.88		S: Good	No sia	nificant features noted at time of survey.	40+ yrs
					S	5	0				B: Good			
					W	5	0							
Age Classifications:	N Y	Newly plante Young	ed	EM Early M Matu	<sup>v</sup> Mature re		С	ondit	i <b>on:</b> C			Stems:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 de	finition
	SM	-		OM Over					В	Basal area	a	ERC:	Estimated Remaining Contributio	
Page 4									TreeN	linder			ů	nuarv 2022

Tree and Tag No		Hght	uht S		Stems		Crown			RP	Dhye	Structur			Preliminary Recommendations	Cat
Species		(m)	No	@ (m		Spread (m)	l Clea (m		Age	A (m <sup>2</sup> R (m)					Survey Comment	Cat ERC
T10																
Common Oak		5	1	100		N	2	1	М	A: 4.5	Good	C: Good				C.1
Quercus robur						E	3	1		R: 1.19		S: Good		No ciar	nificant features noted at time of survey.	40+ yrs
						S	2	1				B: Good		NO SIGI	incant reatures noted at time of survey.	10 1 913
						W	3	1								
T11																
Turkey Oak		12	2	448	(Eq)	Ν	6	2	М	A: 90.7	Good	C: Good				B.1
Quercus cerris						E	6	0		R: 5.37		S: Good		Stom h	ifurcates at 1m, union included.	40+ yrs
						S	6	0				B: Good		Stemb	indicates at 111, union included.	,
						W	6	0								
T12															Estimated 1	Measurement
Common Oak		8	1	160		Ν	3	2	ΕM	A: 11.6	Good	C: Good				<b>B.1</b>
Quercus robur						E	3	2		R: 1.92		S: Good		Bacal a	irea obscured by undergrowth.	40+ yrs
						S	3	2				B: Not visi	ible	Dasara	ied obscured by undergrowth.	
						W	3	2								
T13															Estimated 1	Measurement
Common Oak		8	1	220		Ν	5	3	М	A: 21.9	Good	C: Good				<b>B.1</b>
Quercus robur						E	5	3		R: 2.64		S: Good		Off cite	e tree. Lower 2m of stem and basal area obscured by	40+ yrs
						S	5	2				B: Not visi	ible	underg		
						W	5	3								
T14																
Common Oak		13	2	375	(Eq)	Ν	5	2	М	A: 63.6	Good	C: Good				<b>B.1</b>
Quercus robur						E	5	2		R: 4.49		S: Good		Lowor	1m of stem, stem union and basal area obscured by	40+ yrs
						S	5	2				B: Not visi	ible	underg		10 1 910
						W	5	2								
T15																
Sycamore		16	5	988	(Eq)	Ν	6	2	М	A: 441.	8 Good	C: Good				<b>B.1</b>
Acer pseudoplatanus						E	6	2		R: 11.8	5	S: Fair		Major	deadwood (>75mm diameter and/or longer than 2m)	20+ yrs
						S	6	2				B: Fair		throual	hout crown. Stems diverge at ground level, unions	201 910
						W	6	2						frequer	ontly compressed with no natural braces visible. Ivy on stem, to apex, obscuring visual inspection.	
Age Classifications:	N	Newly plante	d	EM E	Early M	ature		С	ondi	tion:	C Crown		S	Stems:	Ø Diameter	
	Y	Young			Mature						S Stem				(Eq) Equivalent stem diameter using BS5837:2012 c	definition
	SM	Semi-mature		OM C	Over Ma	ature					B Basal are	ea		ERC:	Estimated Remaining Contributio	
Page 5										Tre	eMinder				26.	January 2022

Tree and Tag No		Hght		Stems		Crown			RP	Dhye	Structural		Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Sprea (m)		ear m)	Age	A (m²) R (m)	Phys Condition	Condition		Survey Comment	ERC
T16														
Sweet Chestnut		7	1	160	N	3		EM	A: 11.6	Good	C: Good			<b>B.1</b>
Castanea sativa					E S W	3 3 3	2 2 2		R: 1.92		S: Good B: Good	No sig	nificant features noted at time of survey.	40+ yrs
T17					••	5	2							
Sycamore		9	1	280	N	3	2	EM	A: 35.5	Decline	C: Fair			U
Acer pseudoplatanus		5	T	200	E	3	2	LIN	R: 3.36	Decline	S: Poor			
Acer pseudopiatarius					S	3	2		K. 5.50		B: Not visible	Extens	sive squirrel damage between 3m and apex. Major	<10 yrs
					W	3	2					throug	vood (>75mm diameter and/or longer than 2m) ghout crown. Lower 2m of stem and basal area obscured dergrowth.	
T18														
Sycamore		7	1	180	Ν	3	2	EM	A: 14.7	Good	C: Good			C.1
Acer pseudoplatanus					Е	3	2		R: 2.16		S: Not visible	Lowor	<sup>2</sup> 2m of stem and basal area obscured by undergrowth.	20+ yrs
					S	2	2				B: Not visible		on estimated due to lack of physical access.	201 913
					W	3	2					Locati		
Т19														
Cherry		8	1	460	Ν	4	2	М	A: 95.7	Good	C: Good			U
Prunus sp.					Е	4	2		R: 5.51		S: Poor	Multin	le physical wounds and woodpecker hole on stem	<10 yrs
					S	4	2				B: Good	betwe	en 1.5m and 4m. Wounds up to 330mm wide and	- / -
					W	4	2					700mi entryv	m tall with callus wood to 70mm. Wounds contain ways to internal cavity. Cavity extent not visible at time of y but substantial enough to be suitable woodpecker	
T20														
Gum		10	1	500	Ν	5.5	5	SM	A: 113.1	Good	C: Fair			C.1.2
Eucalyptus sp.					Е	5	4		R: 6		S: Good	Histori	ically topped at 8m, epicormic regrowth 30mm diameter	10+ yrs
					S	1	6				B: Good		m in length. Stem lean of 30 degrees from upright to	•
					W	3	5					north	East.	
Age Classifications:	N	Newly plant	ed	EM Early	y Mature		Co	onditi	ion: C	Crown		Stems:	Ø Diameter	
<b>J</b>	Y	Young		M Matu					S	Stem			(Eq) Equivalent stem diameter using BS5837:2012 def	inition
	SM	Semi-matur	e	OM Over	r Mature				В	Basal area	I	ERC:	Estimated Remaining Contributio	
Page 6									TreeM	linder			26 .lar	nuary 2022

Tree and Tag No		Hght		Stems		Crown			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spre (m		Clear Ag (m)		A (m²) R (m)	Condition	Condition	· · · · · · · · · · · · · · · · · · ·	ERC
T21												Estimated	Measurement
Gum		16	2	651 (E	q) N	11	14	SM	A: 191.6	Good	C: Good		B.1.2
Eucalyptus sp.					Е	10	5		R: 7.8		S: Good	Bifurcation at 0.5m into codominant stems. Historicaly topped	20+ yrs
					S	3.5	2.5				B: Good	at 7m, with regrowth of 150mm diameter and 6m in length.	201 910
					W	4	3					Stems have twisted from base in order to grow phototrophically.	
T22													
Gum		19.5	1	720	Ν	10.5	10	SM	A: 234.5	Fair	C: Good		U.1.2
Eucalyptus sp.					Е	4	4		R: 8.63		S: Good	Two Ganoderma brackets present on base, one to east	<10 yrs
					S	7	0.5				B: Poor	another to south; sounding out with mallet highlights pockets	- / -
					W	4.5	5					of decay between buttresses. Asymmetrical crown due to neighbouring trees.	
T23													
Gum		23	1	930	Ν	11	2	SM	A: 391.3	Good	C: Good		<b>B.1.2</b>
Eucalyptus sp.					Е	7	1.5		R: 11.16		S: Ivy	Asymmetrical crown due to neighbouring trees. Small volume	20+ yrs
					S	7	2				B: Good	of dead wood on eastern side.	
					W	4	1						
T24													
Leyland Cypress		18	1	950	Ν	4	2	EM	A: 408.3	Good	C: Good	See Comment :: See Comment	<b>B.1.2</b>
X Cupressocyparis leylandii					Е	4	0.5		R: 11.4		S: Good		20+ yrs
					S	6	1				B: Fair	Base not fully visible due to debris. Multi stemed ( >10 stems)	,
					W	5	1					from 2m. Three failed and hung up stems on south west side, we recommend removing these asap.	
T25													
Sweet Chestnut		13	1	530	Ν	5	7	SM	A: 127.1	Good	C: Good		<b>B.1.2</b>
Castanea sativa					E	6	2		R: 6.36		S: Good	Asymmetrical canopy due to neighbouring trees. Compressed	20+ yrs
					S	5	3				B: Good	union at 7m. Multiple dead limbs, 40mm in diameter, 1m in	
					W	2	3					length.	
T26													
Sweet Chestnut		8	1	500	Ν	6	1.5	SM	A: 113.1	Good	C: Good		<b>B.1.2</b>
Castanea sativa					Е	4.5	1.5		R: 6		S: Good	Surface roots visible. Asymmetrical crown due to neighbouring	20+ yrs
					S	6	2				B: Good	trees.	·
					W	4	2						
Age Classifications:	Ν	Newly plant	ted	EM Earl	y Mature	Э	C	ondit	ion: C	Crown		Stems: Ø Diameter	
	Υ	Young		M Mate					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012	definition
	SM	Semi-matur	re	OM Ove	r Mature	9			В	Basal area	a	ERC: Estimated Remaining Contributio	
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Species T27 Wild Cherry		Hght (m)	No	Ø	Spre	be	~	1	A (	PUAS	Structural	1	Preliminary Recommendations	Cat
				(mm			Clear (m)	Age	A (m²) R (m)	Phys Condition	Condition		Survey Comment	
Wild Cherry					·					· · · ·				
		9	1	570	Ν	5.5	2	SM	A: 147	Fair	C: Good			U.1.2
, Prunus avium					E S W	5 5 6	2 2 2.5		R: 6.84		S: Fair B: Good	locatec stump limb ha leaving necroti visible fruiting mallet approx	diverts into 3 codominant stems at 1.5m, a fourth limb is d in the stem union which has been removed leaving a 450mm in length and 100mm in diameter. A second as historically been torn out from base the south side g an open wound of 250mm diameter; wound has visible ic tissue extending down into main stem. Exudate at stem union extending down to base of tree. Fungal g body present on base to south, surrounded out with revealing probable decay pocket between buttresses imately 500mm in length and 200mm wide. Second g body emerging on base to west.	<10 yrs
T28														
Sycamore		13	6	563	(Eq) N	7	3	SM	A: 143.6	Good	C: Good			B.1.2
Acer pseudoplatanus					E S W	7 6 7	4 5.5 3		R: 6.76		S: Not visible B: Good	Mulu S	tems from base. Some unions compressed, some ed. Ivy on stem to apex.	20+ yrs
W01													Estimated M	easuremen
Various		20	1	940	Ν	7	2	М	A: 399.8	Good	C: Good			A.2
See comments for details					E S W	7 7 7	2 2 2		R: 11.28		S: Ivy B: Not visible	alder. I throug	and primarily comprising of sycamore, wild cherry, and Major deadwood throughout canopy. Ivy present hout woodland, frequently to apex. Dimensions ed represent approximated average for the woodland.	40+ yrs
Age Classifications:	N Y SM	Newly plante Young Semi-mature		M Ma	arly Mature ature ver Mature		C	ondit	ion: C S B		I	Stems: ERC:	Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 de Estimated Remaining Contributio	finition



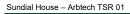
## Appendix 3: Tree Constraints Plan



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Ecology - Protected Species - Licensing - Arboriculture - Biodiversity Net Gain - Land/Topographical Survey





## 9. Document Production Record

Document number	Editor	Signature	Position	lssue number	Date	
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