

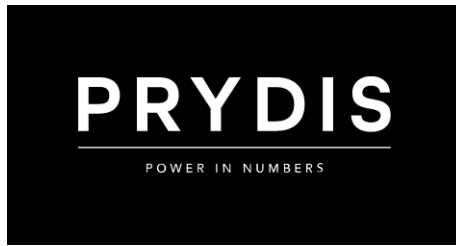


**arbtech**

**BS5837:2012**

**Trees in relation to design, demolition and construction –  
Recommendations**

## **Tree Survey**



Great Birchwood Country Park,  
Lytham Road,  
Warton,  
PR4 1TE

**25 November 2021**

Author: Emily Kempson BSc (hons)

## Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 5<sup>th</sup> October 2021 from Colin Campbell of Prydis Ltd. to attend Great Birchwood Country Park, Lytham Road, Warton, PR4 1TE; grid reference, SD 39603 28186 (site) to undertake an arboricultural survey 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 Emily Kempson, an arboricultural consultant at Arbtech Consulting Ltd. I hold a BSc honors in Geography and am currently undertaking a Level 4 diploma in arboriculture and have professional experience in arboriculture. I have also attended the Arboricultural Association Intermediate Tree Inspection Course in 2019.

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	U-06757
British Standard 5837:2012	“BS5837”
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

## Tree Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Emily Kempson between 8<sup>th</sup> November 2021 and 11<sup>th</sup> November 2021.

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 118 No. individual trees, 38 No. groups of trees, 4 No. hedges and 1 No. woodland were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

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

Document	Originator	Reference Number	Title
Topographical survey	Midland Survey Ltd	U06757	Measured Survey

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

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

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

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

### Site description

The site is located to northern side of Lytham Road, and comprises a former leisure park with an entertainment centre, equestrian centre, touring pitches, workshop space and two dwellings. There are currently a number of static caravans still occupied to the northern corner of the site. There are several groups of trees along the western half of the site, with open green space including a number of ponds across the east and south. The site varies slightly in topography, including an embankment along the eastern site boundary.

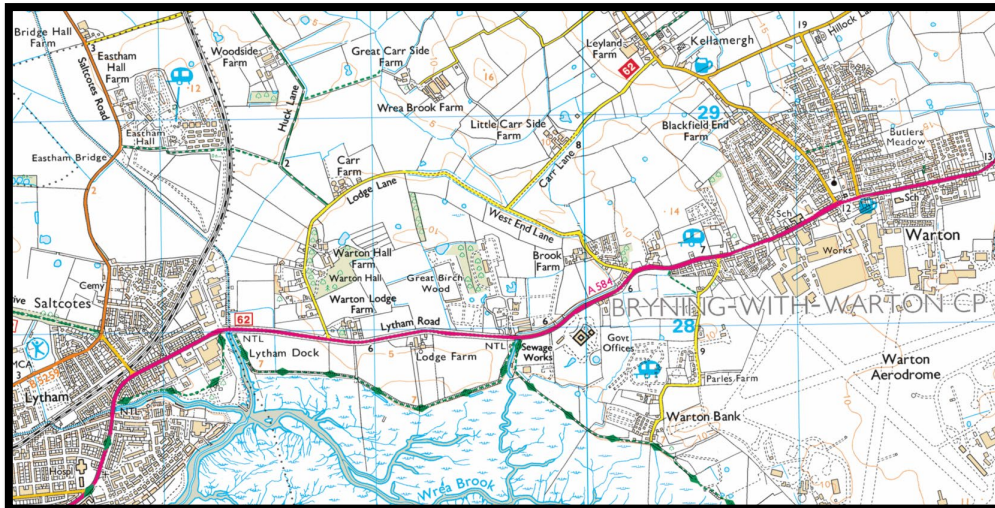


Figure 1: OS Map (Bing Maps)



Figure 2: Aerial Image of site (Google Earth)

The proposals include the delivery of up to 77 dwellings of 3,4 and 5 beds, as well as associated green/ blue infrastructure, play space, and improved access.

It is likely that arboricultural impacts can be addressed with arboricultural methodology or minor amendments to the proposal.

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## 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.

## Methodology

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

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

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

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

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

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

- I. reference number (to be recorded on the tree survey plan);
- II. species (common or scientific names);
- III. height in meters (m);
- IV. stem diameter in millimeters (mm) at 1.5 m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- V. branch spread in meters taken at the four cardinal compass points;
- VI. height of crown clearance above adjacent ground level in meters (m);
- VII. age class (Newly planted, Young, Semi-mature, Early mature, Mature, Over mature);
- VIII. physiological condition (e.g. good, fair, poor, decline and dead);
- IX. structural condition (e.g. good, fair, poor and ivy);
- X. preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat; and
- XI. The retention category referring to the quality and useful contribution in years; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention sub category referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = Cultural including conservation (see Table 1 Cascade chart for tree quality assessment).

## 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 (.file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

### Root Protection Area

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

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

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

### Arboricultural Impact Assessment

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

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



## Arboricultural Method Statement

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

## Recommendations

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); and
- c) A tree protection plan drawing (TPP).

## 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.



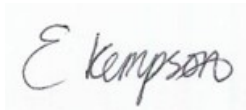
## Appendices

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,

A handwritten signature in black ink that reads "Emily Kempson". The signature is written in a cursive style and is set against a light grey rectangular background.

Emily Kempson BSc (Hons)  
Arboricultural Consultant

07874 872745  
Emilykempson@arbtech.co.uk

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

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

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

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

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## Appendix 2: Schedule of Trees

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**BS5837:2012 Tree Survey**

**Arbtech Consulting Ltd**

Client: Prydis Ltd.  
 Project: Great Birchwood Country Park, Lytham Road.  
 Survey Date: 08/11/2021 - 10/11/2021  
 Surveyor: Emily Kempson



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

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
Estimated Measurements											
G1 Various <i>See comments for details</i>	4	3	157 (Eq)	N E S W	2 2 2 2	0 0 0 0	Y A: 11.1 R: 1.87	Good	C: Good S: Good B: Good	Group of young trees and shrubs planted for screening to one cabin. Species included Leyland, plum, laurel, and juniper. Dimensions represent maximum within group.	C.2 10+ yrs
Estimated Measurements											
G2 Various <i>See comments for details</i>	5	1	100	N E S W	2 2 2 2	1 1 1 1	Y A: 4.5 R: 1.19	Good	C: Good S: Good B: Good	Group of 2 Leyland's and 1 cherry. Dimensions represent average of group.	C.2 10+ yrs
Estimated Measurements											
G3 Various <i>See comments for details</i>	10	1	250	N E S W	4 4 4 4	1 1 1 1	SM A: 28.3 R: 3	Good	C: Good S: Good B: Good	Boundary group comprising maturing hawthorn hedge interspersed with trees including ash, silver birch, laburnum and sycamore, with understorey of shrubs and vegetation. Dimensions represent maximum within group.	C.2 20+ yrs
Estimated Measurements											
G4 Various <i>See comments for details</i>	11	1	250	N E S W	4 4 4 4	1 1 1 1	SM A: 28.3 R: 3	Good	C: Good S: Good B: Not visible	Boundary trees comprising sycamore, ash, goat willow, with under storey of brambles and dense vegetation. Dimensions represent average of group. Self seeded saplings within.	B.2 20+ yrs
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature			S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
G5												
Various <i>See comments for details</i>	11	1	250	N	3	1	EM	A: 28.3 R: 3	Good	C: Good S: Good B: Good	Boundary trees of ash. Sycamore, silver birch, with understory shrubs. Increased elevation.	<b>B.2</b> 20+ yrs
Estimated Measurements												
G6												
Various <i>See comments for details</i>	11	1	340	N	6	4	EM	A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	Group of 6 stems (one multi stem of 2 stems). Includes sycamore and ash located within grass at a slightly elevated level, adjacent to concrete base. Dimensions represent maximum within group.	<b>B.2</b> 20+ yrs
Estimated Measurements												
G7												
Various <i>See comments for details</i>	11	1	200	N	3	1	EM	A: 18.1 R: 2.4	Good	C: Good S: Good B: Good	Offsite group of trees including poplar and common osier shrubs. 1 dying conifer within the site. Growing on other side of embankment of 1.75m height, not accessible for full inspection. Dimensions represent average of group.	<b>C.2</b> 10+ yrs
Estimated Measurements												
G8												
Various <i>See comments for details</i>	4	1	100	N	2	0	SM	A: 4.5 R: 1.19	Fair	C: Good S: Not visible B: Not visible	Offsite group of hawthorn located on other side of embankment. Not visible to assess.	<b>C.2</b> 10+ yrs
Estimated Measurements												
G9												
Various <i>See comments for details</i>	9	1	270	N	3	2	EM	A: 33 R: 3.24	Good	C: Good S: Good B: Good	Group bounded by lake growing in grass across uneven levels, centre of group amongst brambles. Includes ash, alder, field maple, willow. Several trees are multi stem from base. Dimensions represent maximum for group.	<b>B.1.2</b> 20+ yrs
Estimated Measurements												
G10												
Various <i>See comments for details</i>	5	5	176 (Eq)	N	2.5	0	SM	A: 14.1 R: 2.11	Good	C: Good S: Good B: Not visible	Group of white willow growing within the water at the edge of lake. All multi stem. Dimensions represent average of the group.	<b>C.2</b> 10+ yrs
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>	Ø	Diameter	
	Y	Young	M	Mature			S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
G11	4	5	157 (Eq)	N	1.5	0	Y	A: 11.1	Good	C: Good	Group of alder and hawthorn growing in bank of lake, all multi stem. Dimensions represent average of the group.	<b>C.2</b>
Various				E	1.5	0		R: 1.87	S: Good	10+ yrs		
<i>See comments for details</i>				S	1.5	0			B: Not visible			
				W	1.5	0						
Estimated Measurements												
G12	7	3	269 (Eq)	N	4	1	EM	A: 32.8	Good	C: Good	Group growing within lake bed and embankment. Comprises grey willow, and hawthorn shrubs. Dimensions represent maximum within group.	<b>B.2</b>
Various				E	4	1		R: 3.23	S: Good	20+ yrs		
<i>See comments for details</i>				S	4	1			B: Not visible			
				W	4	0						
Estimated Measurements												
G13	10	4	394 (Eq)	N	4.5	0	EM	A: 70.4	Good	C: Good	Group of white and grey willow growing within lake or within embankment. 3 trees all multi-stem. Dimensions represent average of group. One tree has experienced codominant stem failure along one forked limb .	<b>B.2</b>
Various				E	4.5	0		R: 4.73	S: Good	20+ yrs		
<i>See comments for details</i>				S	4.5	0			B: Not visible			
				W	4.5	0						
Estimated Measurements												
G14	5	1	150	N	2.5	0	SM	A: 10.2	Good	C: Good	Offsite group obscured from view by embankment and dense brambles. Includes willow, ash, hawthorn, blackthorn	<b>C.2</b>
Various				E	2.5	0		R: 1.8	S: Not visible	10+ yrs		
<i>See comments for details</i>				S	2.5	0			B: Not visible			
				W	2.5	0						
Estimated Measurements												
G15	5	3	121 (Eq)	N	2	0	SM	A: 6.7	Good	C: Good	Offsite group of willow. Not visible to assess due to embankment and brambles.	<b>C.2</b>
Various				E	2	0		R: 1.46	S: Not visible	10+ yrs		
<i>See comments for details</i>				S	2	0			B: Not visible			
				W	2	0						
Estimated Measurements												
G16	6	1	150	N	3	0	SM	A: 10.2	Good	C: Good	Group of screening shrubs and small trees, mostly offsite, with some growing in the site boundary embankment. Includes a range of species such as hawthorn, willow, common osier, ash, blackthorn. Inaccessible to fully assess.	<b>C.2</b>
Various				E	3	0		R: 1.8	S: Not visible	10+ yrs		
<i>See comments for details</i>				S	3	0			B: Not visible			
				W	3	0						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter		
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition		
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio		



Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
G17	12	1	290	N	3	0	EM	A: 38.1 R: 3.48	Fair	C: Good S: Fair B: Fair	Group of 3 trees, eucalyptus, goat willow and arroyo willow. Located in grass adjacent to tarmac. Eucalyptus leans to east.	C.2 10+ yrs
Various				E	3	0						
<i>See comments for details</i>				S	3	0						
				W	3	0						
Estimated Measurements												
G18	7	2	212 (Eq)	N	3	0	SM	A: 20.4 R: 2.54	Fair	C: Good S: Fair B: Fair	A row of trees adjacent to abandoned building and concrete base. A mixture of species including hawthorn, sycamore, ash, common osier, horse chestnut, which are overrun by brambles and scrub vegetation. Some trees have historically been topped. Debris and detritus piled nearby.	C.2 10+ yrs
Various				E	3	0						
<i>See comments for details</i>				S	3	0						
				W	3	0						
Estimated Measurements												
G19	7	4	340 (Eq)	N	3	3.5	SM	A: 52.3 R: 4.08	Fair	C: Good S: Fair B: Fair	Group comprising hawthorn and ash. Located in soft landscaping overgrown by brambles and scrub. Most multi stem from base. Dimensions represent average of group.	C.2 10+ yrs
Various				E	3	3.5						
<i>See comments for details</i>				S	3	3.5						
				W	3	3.5						
Estimated Measurements												
G20	9	3	260 (Eq)	N	4	0	SM	A: 30.5 R: 3.11	Good	C: Good S: Good B: Not visible	Group of trees and large shrubs to rear of building. Overgrown and colonised by scrub vegetation which limits access. Species include ash, common osier, willow, fir, Leyland.	B.2 20+ yrs
Various				E	4	0						
<i>See comments for details</i>				S	4	0						
				W	4	0						
Estimated Measurements												
G21	9	2	361 (Eq)	N	5	2	SM	A: 59 R: 4.33	Good	C: Good S: Good B: Good	Group of 5 trees, stem diameters presented individually. Dimensions represent maximum for group. Includes silver birch, alder, cherry, willow.	B.2 20+ yrs
Various				E	5	2						
<i>See comments for details</i>				S	5	2						
				W	5	2						
Estimated Measurements												
G22	13	1	300	N	7	2	EM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	Group of 7 trees, stem diameters presented individually. Includes sycamore, apple, blackthorn, ash, cherry.	B.1.2 20+ yrs
Various				E	7	2						
<i>See comments for details</i>				S	7	2						
				W	7	2						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter		
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition		
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>G23</b>												
Various <i>See comments for details</i>	7	1	180	N	3.5	2	EM	A: 14.7 R: 2.16	Good	C: Good S: Good B: Good	<b>C.1.2</b> 20+ yrs	
				E	3.5	2						
				S	3.5	2						
				W	3	2						
<b>G24</b>											Estimated Measurements	
Various <i>See comments for details</i>	6	3	173 (Eq)	N	3.5	0	SM	A: 13.6 R: 2.08	Good	C: Good S: Not visible B: Not visible	<b>C.2</b> 10+ yrs	
				E	3.5	0						
				S	3.5	0						
				W	3.5	0						
<b>G25</b>											Estimated Measurements	
Various <i>See comments for details</i>	4	2	212 (Eq)	N	3	0	SM	A: 20.4 R: 2.54	Good	C: Good S: Good B: Not visible	<b>C.2</b> 10+ yrs	
				E	3	0						
				S	3	0						
				W	3	0						
<b>G26</b>											Estimated Measurements	
Various <i>See comments for details</i>	4	1	150	N	2.5	0.5	SM	A: 10.2 R: 1.8	Good	C: Good S: Good B: Good	<b>C.2</b> 10+ yrs	
				E	2.5	0.5						
				S	2.5	0.5						
				W	2.5	0.5						
<b>G27</b>											Estimated Measurements	
Various <i>See comments for details</i>	4.5	3	152 (Eq)	N	2.5	0	SM	A: 10.4 R: 1.81	Good	C: Good S: Good B: Not visible	<b>C.2</b> 10+ yrs	
				E	2.5	0						
				S	2.5							
				W	2.5	0						
<b>G28</b>											Estimated Measurements	
Various <i>See comments for details</i>	4.5	1	210	N	3	2	SM	A: 20 R: 2.52	Good	C: Good S: Good B: Good	<b>C.2</b> 20+ yrs	
				E	3	2						
				S	3	2						
				W	3	2						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
Estimated Measurements												
G29	5	1	175	N	2.5	0	SM	A: 13.9 R: 2.1	Good	C: Good S: Not visible B: Not visible	Group located at edge of pond, not accessible, surrounded by brambles. Includes sycamore, hawthorn, willow.	C.2
Various				E	2.5	0						10+ yrs
<i>See comments for details</i>				S	2.5	0						
				W	2.5	0						
Estimated Measurements												
G30	15	1	500	N	4	0	EM	A: 113.1 R: 6	Good	C: Good S: Good B: Good	Group growing along site boundary around a drainage channel. Mixture of size ranges from small shrubs of hawthorn to approx. 200mm young trees of willow and sycamore. There are approx. 5 larger oak trees located centrally ranging from 450mm to 600mm diameter. Understorey is colonised by scrub.	B.2
Various				E	4	0						20+ yrs
<i>See comments for details</i>				S	4	0						
				W	4	0						
Estimated Measurements												
G31	12	1	225	N	3.5	1	SM	A: 22.9 R: 2.69	Good	C: Good S: Good B: Good	Group on site of mostly self seeded young specimens, with some semi mature amongst. Understorey of scrub and grasses. 1 failed willow. Species include willow, elm, aspen, poplar	C.2
Various				E	3.5	1						10+ yrs
<i>See comments for details</i>				S	3.5	1						
				W	3.5	1						
Estimated Measurements												
G32	20	1	500	N	5	1	M	A: 113.1 R: 6	Good	C: Good S: Good B: Good	Group of trees largely offsite, with some located at the boundary fence on site. The canopies of larger trees overhangs the site with tall clearance. Understorey of brambles and scrub. Consists of a large number of canopy oak trees, some of which have standing deadwood within crowns. Also comprises of elm, sycamore, and understorey of hawthorn and willow.	B.1.2
Various				E	5	1						40+ yrs
<i>See comments for details</i>				S	5	1						
				W	5	1						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter		
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition		
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC		
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment				
Estimated Measurements														
G33														
Various <i>See comments for details</i>	11	1	730	N	5.5	1	EM	A: 241.1 R: 8.76	Decline	C: Poor S: Poor B: Poor	Group of 5 oaks located within grass. All have been previously topped to 9- 10m height. Regrowth in the form of epicormics forms most of the crowns. Each has it's own form of ill health: Southern tree has upper stem failure, with 4 Ganoderma resinaceum brackets around base. South western tree has 3 g. resinaceum brackets around base. South eastern tree has a cavity 20cm deep that goes down into root plate, 20cm diameter with up to 5cm wound wood and upper stem failure. North eastern tree has damage to bark exposing cambium with decay at 2m, black bleeds around bark, cavity opening root plate 40cm deep, 25cm wide, up to 6cm wound wood. North western tree has not been topped but has stag headed formation, leans to east with several snapped branches.	<b>C.1</b> 10+ yrs		
Estimated Measurements														
G34														
Various <i>See comments for details</i>	11	1	400	N	3.5	1	SM	A: 72.4 R: 4.8	Good	C: Good S: Good B: Not visible	Group of largely young and semi mature specimens growing as a small stand with under storey scrub. Dimensions represent largest in group. Includes willow, silver birch, sycamore, oak saplings. Crosses into neighbours site where there are a number of semi mature standing deadwood a few metres away from the boundary.	<b>C.2</b> 10+ yrs		
Estimated Measurements														
G35														
Various <i>See comments for details</i>	18	1	560	N	4	1	SM	A: 141.9 R: 6.72	Poor	C: Fair S: Fair B: Fair	A group of trees all in poor health for various reasons. Includes an oak with a Ganoderma bracket measuring 40cm across with stag head formation. A number of sycamores with cavities and injuries to the stems, as well as general low quality silver birch and willow trees.	<b>C.2</b> <10 yrs		
Estimated Measurements														
G36														
Various <i>See comments for details</i>	15	1	250	N	3	1	EM	A: 28.3 R: 3	Fair	C: Fair S: Fair B: Fair	Group of trees and shrubs along the boundary and a drainage channel. Trees of a lower quality with several in poor health, or younger trees. Includes elm, hawthorn, oak sycamore.	<b>C.2</b> 10+ yrs		
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature					<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature						S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature						B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
G37	20	1	600	N	5	10	OM	A: 162.9	Dead	C: Poor	Group of 4 standing deadwood. Most of bark has been stripped away. A presence Armillaria sp, with rhizomorphs visible up several of the stems. At least one tree appears at risk of brittle failure by snapping in the near future.	<b>U</b> n/a
Various				E	5	10		R: 7.2		S: Poor		
<i>See comments for details</i>				S	5	10				B: Poor		
				W	5	10						
Estimated Measurements												
G38	12	1	250	N	3.5	1	EM	A: 28.3	Fair	C: Fair	Group of approx. 30 -45 trees growing roughly in 4 rows between concrete bases. Several are self set saplings. Includes sycamore, ash, elm with hawthorn shrubs. Crowded stems often causing injury to one another. Brambles understorey.	<b>C.2</b> 10+ yrs
Various				E	3.5	1		R: 3		S: Fair		
<i>See comments for details</i>				S	3.5	1				B: Fair		
				W	3.5	1						
Estimated Measurements												
H1	4.5	1	150	N	3	0	M	A: 10.2	Good	C: Good	Old hedgerow of hawthorn that has matured into small trees. Some self seeded sycamore amongst.	<b>B.2</b> 20+ yrs
Various				E	3	0		R: 1.8		S: Good		
<i>See comments for details</i>				S	3	0				B: Good		
				W	3	0						
Estimated Measurements												
H2	4.5	1	200	N	3	1	M	A: 18.1	Good	C: Good	Old hedgerow of hawthorn that has matured into small trees.	<b>B.2</b> 20+ yrs
Various				E	3	1		R: 2.4		S: Good		
<i>See comments for details</i>				S	3	1				B: Good		
				W	3	1						
Estimated Measurements												
H3	4.5	1	200	N	3	1	M	A: 18.1	Good	C: Good	Old hedgerow of hawthorn that has matured into small trees. Some self seeded elder amongst. 2 specimen colonised by ivy.	<b>B.2</b> 20+ yrs
Various				E	3	1		R: 2.4		S: Good		
<i>See comments for details</i>				S	3	1				B: Good		
				W	3	1						
Estimated Measurements												
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
Estimated Measurements												
H4 Various <i>See comments for details</i>	5	1	200	N E S W	3 3 3 3	1 1 1 1	M A: 18.1 R: 2.4	Good	C: Good S: Good B: Good	Old hedgerow of hawthorn that has matured into small trees. Some self seeded saplings amongst. Overgrown by scrub vegetation.	B.2 20+ yrs	
Estimated Measurements												
H5 Various <i>See comments for details</i>	3.5	3	105 (Eq)	N E S W	2 2 2 2	0 0 0 0	SM A: 5 R: 1.26	Good	C: Fair S: Good B: Not visible	Boundary hawthorn hedge that has been left unmaintained and colonised by scrub vegetation.	C.2 10+ yrs	
Estimated Measurements												
T1 Sycamore <i>Acer pseudoplatanus</i>	5	1	270	N E S W	2 2 2 1.5	3 2.5 2 1.5	SM A: 33 R: 3.24	Decline	C: Poor S: Good B: Good	Located in grass. Major retrenchment with living crown up to 3.5m height only. Upper stem dead.	U <10 yrs	
Estimated Measurements												
T2 Common Ash <i>Fraxinus excelsior</i>	14	2	575 (Eq)	N E S W	8 7 7 6	4.5 4.5 4 4.5	EM A: 149.5 R: 6.89	Good	C: Good S: Fair B: Good	Located in grass. Stem forks at 1.25m with v-shaped union. Pruning wounds around both stems from 2m to 4m height with wounds up to 150mm not occluded and epicormics around wounds.	B.1 20+ yrs	
Estimated Measurements												
T3 Cultivated Apple <i>Malus domestica</i>	7	2	397 (Eq)	N E S W	3 3 3.5 4	3 3 4 5	EM A: 71.3 R: 4.76	Fair	C: Good S: Fair B: Good	Located in grass adjacent to road. Stem forks from 0.5m with tight v-shaped union. The smaller stem has a cavity to north at 1m of 25cm x 6cm, 8cm deep with up to 7cm wound wood. Another cavity from pruning wound at 2.5m. Bark is peeling around trunk. Epicormics around lower stems.	C.1 10+ yrs	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T4</b>												
Common Ash <i>Fraxinus excelsior</i>	8	1	240	N	3.5	4	SM	A: 26.1 R: 2.88	Good	C: Good S: Good B: Good	<b>B.2</b> 20+ yrs Located in grass adjacent to road as part of a row of Ash. Crown in contact with power line. Epicormics at 3m height, and pruned away from base. Lichen present on stem. Stem forks at 2m into 2 stems that slightly twist around each other	
<b>T5</b>												
Common Ash <i>Fraxinus excelsior</i>	9	1	280	N	4.5	5	SM	A: 35.5 R: 3.36	Good	C: Good S: Good B: Good	<b>B.2</b> 20+ yrs Located in grass adjacent to road as part of a row of Ash. East crown has been pruned away from power line with epicormics resulting at 4m height. Lichen present on stem.	
<b>T6</b>												
Common Ash <i>Fraxinus excelsior</i>	8	1	280	N	3.5	4	SM	A: 35.5 R: 3.36	Fair	C: Good S: Fair B: Good	<b>C.2</b> 20+ yrs Located in grass adjacent to road as part of a row of Ash. Crown in contact with power line. Stem forks at 2m with a crowded union. The middle stem has been shortened resulting in Epicormics at 3m height. Lichen present on stem.	
<b>T7</b>												
Common Ash <i>Fraxinus excelsior</i>	13	1	530	N	5	2	M	A: 127.1 R: 6.36	Fair	C: Good S: Fair B: Good	<b>B.1</b> 20+ yrs Located in grass. Slight lean to north from base. Large historic pruning wound at 1m to north, now occluded but has produced swelling of stem. Stem forks at 2.5m into 2. Large number of large branches have been historically pruned resulting in a lower crown comprised of maturing epicormics. 1 wound to north at 3m approx. 200mm wound with up to 9cm wound wood has <i>Daldinia concentrica</i> on wound.	
<b>T8</b>												
Common Ash <i>Fraxinus excelsior</i>	10	3	487 (Eq)	N	4.2	4	M	A: 107.2 R: 5.84	Fair	C: Good S: Fair B: Fair	<b>C.1</b> 10+ yrs Located in grass adjacent to concrete. Apparent regrowth of 3 stems from base that have grown over the concrete. Large wounds around base from removal of other stems. Injuries on all stems at 1.25m in association with nails. Crown lift wounds partially occluded	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio



Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
<b>T9</b>											
Common Ash <i>Fraxinus excelsior</i>	5	1	210	N	2	3	SM	A: 20 R: 2.52	Decline	C: Poor S: Poor B: Fair	<b>C.1</b>  <10 yrs  Located in grass and gravel. Deadwood throughout crown. Wound to south at 1.5m of 20cm x 5cm with decay within and up to 5cm wound wood. Nails incorporated within bark around stem causing injury.
<b>T10</b>											
Plum <i>Prunus Domestica</i>	4	3	210 (Eq)	N	2	2	SM	A: 19.9 R: 2.51	Fair	C: Fair S: Fair B: Fair	<b>C.1</b>  10+ yrs  Located in grass. Stem forks from base with contact between 2 stems causing abrasion wounding. Crown lift wounds to 2m up to 6cm diameter not occluded.
<b>T11</b>											Estimated Measurements
Sycamore <i>Acer pseudoplatanus</i>	15	1	500	N	7	8	M	A: 113.1 R: 6	Good	C: Good S: Ivy B: Not visible	<b>B.1</b>  20+ yrs  Growing at base of embankment within the site. Forms combined crown with T12. Ivy prevents assessment of stem. Bird box attached.
<b>T12</b>											Estimated Measurements
Common Ash <i>Fraxinus excelsior</i>	14	1	500	N	8	6	M	A: 113.1 R: 6	Good	C: Good S: Ivy B: Not visible	<b>B.1</b>  20+ yrs  Located at base of embankment sharing a combined canopy with T11. Ivy prevents full assessment of stem and lower crown. Deadwood up to 80mm within crown.
<b>T13</b>											
Sycamore <i>Acer pseudoplatanus</i>	12	1	500	N	4.5	5	EM	A: 113.1 R: 6	Fair	C: Good S: Poor B: Good	<b>C.1</b>  10+ yrs  Located in grass immediately adjacent to and in contact with fence. Significant limb removal to allow fence installation, condition not visible, but approx. 300mm diameter. Street light attached and becoming occluded into stem. Stem forks at 1.75m but eastern stem has been shortened to 3m length resulting in lower crown of epicormics.
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter	
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
<b>T14</b>											
Sycamore <i>Acer pseudoplatanus</i>	12	1	360	N	5	6	EM	A: 58.6 R: 4.31	Fair	C: Good S: Fair B: Good	<b>B.1</b> 20+ yrs
				E	5	6				Located in grass adjacent to concrete base. Crown lift wounds to 5m occluded. Deadwood within crown of up to 50mm.	
				S	5	6					
				W	5	6					
<b>T15</b>											
Sycamore <i>Acer pseudoplatanus</i>	12	1	430	N	4	3	EM	A: 83.7 R: 5.16	Decline	C: Poor S: Fair B: Good	<b>C.1</b> >10 yrs
				E	4	3				Located in grass adjacent to concrete base. Deadwood throughout crown with retrenchment and low vitality, lower crown is made of epicormics. Group of pruning wounds all at 3m height up to 100mm diameter with cavities present that are likely to have combined internally.	
				S	5	3					
				W	4	3					
<b>T16</b>											
Red Spruce <i>Picea rubens</i>	10	1	230	N	3	2	SM	A: 23.9 R: 2.75	Good	C: Good S: Good B: Good	<b>B.2</b> 20+ yrs
				E	3	2				Located adjacent to hard standing. No notable defects.	
				S	3	2					
				W	3	2					
<b>T17</b>											
Field Maple <i>Acer campestre</i>	8	1	210	N	4	2	SM	A: 20 R: 2.52	Good	C: Good S: Good B: Good	<b>B.2</b> 20+ yrs
				E	3	2				Located in grass. Epicormics pruned around base. Stem divides at 1.5m into multiple stems with no central leader. Regular pruning of stems has resulted in epicormics around union.	
				S	3	2					
				W	3	2					
<b>T18</b>											
Common Ash <i>Fraxinus excelsior</i>	14	1	450	N	6.5	3	EM	A: 91.6 R: 5.39	Fair	C: Good S: Fair B: Good	<b>B.1</b> 20+ yrs
				E	6.5	3				Located in grass adjacent to hard standing. Historic pruning wound at 1m to north occluded but has produced swelling of stem. A number of branches have been historically pruned at 3m height. 1 wound to north at 4m approx. 200mm diameter with up to 9cm wound wood.	
				S	6.5	3					
				W	6.5	3					
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter	
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T19</b>												
Common Ash <i>Fraxinus excelsior</i>	8	1	190	N	2	5	SM	A: 16.3 R: 2.27	Fair	C: Good S: Good B: Fair	<b>C.1.2</b> 10+ yrs Located in grass adjacent to concrete base. Wounding and injuries around stem at 1m resulting in swelling.	
<b>T20</b>												
Common Ash <i>Fraxinus excelsior</i>	9	1	390	N	5.5	4	EM	A: 68.8 R: 4.67	Fair	C: Good S: Fair B: Good	<b>C.1.2</b> 10+ yrs Located in grass adjacent to concrete base. Pruning wound to north at 1m of 10cm diameter with water filled cavity and up to 9cm wound wood. Stem forks at 2m into 3. Pruning around the union leaves wounding not occluded with a decaying branch stub.	
<b>T21</b>												
Leyland Cypress <i>X Cupressocyparis leylandii</i>	6	3	173 (Eq)	N	1	0	EM	A: 13.6 R: 2.08	Good	C: Good S: Good B: Good	<b>C.2</b> 10+ yrs Located in raised border adjacent to hard standing. No notable features. Estimated Measurements	
<b>T22</b>												
Leyland Cypress <i>X Cupressocyparis leylandii</i>	6	3	173 (Eq)	N	1	0	EM	A: 13.6 R: 2.08	Good	C: Good S: Good B: Good	<b>C.2</b> 10+ yrs Located in raised border adjacent to hard standing. No notable features. Estimated Measurements	
<b>T23</b>												
Sycamore <i>Acer pseudoplatanus</i>	10	1	410	N	5	4	EM	A: 76.1 R: 4.92	Fair	C: Good S: Fair B: Fair	<b>C.1</b> 10+ yrs Located in raised border adjacent to hard standing and immediately adjacent to building. Bark wounding around stem. Pruning wounds around stem on various stages of occlusion. Beginning to outgrow it's location	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T24</b>												
Common Ash <i>Fraxinus excelsior</i>	10	1	360	N	4	4	EM	A: 58.6 R: 4.31	Fair	C: Fair S: Fair B: Fair	<b>C.1.2</b> 10+ yrs Located in grass. 2 pruning wounds opposite each other at 0.5m height of 100mm with up to 100mm wound wood and cavity within, likely joined internally. Stem forks at 1.75m into 2. Crown appears brittle with deadwood throughout.	
<b>T25</b>												
Common Ash <i>Fraxinus excelsior</i>	11	1	330	N	3	2	SM	A: 49.3 R: 3.96	Fair	C: Fair S: Fair B: Good	<b>C.2</b> 10+ yrs Located in grass adjacent to concrete base. Linear scratch like injuries around stem at 1m. Lower crown formed of epicormics.	
<b>T26</b>												
Common Ash <i>Fraxinus excelsior</i>	17	1	480	N	8	4	M	A: 104.2 R: 5.75	Fair	C: Good S: Fair B: Good	<b>B.1</b> 20+ yrs Located in grass adjacent to concrete base. Wound at base to north of 40cm x 20cm with up to 10cm wound wood. Pruning wound to south at 3m approx. 90mm diameter with 10cm wound wood.	
<b>T27</b>												
Crab Apple <i>Malus sylvestris</i>	8	1	220	N	3	5	SM	A: 21.9 R: 2.64	Poor	C: Fair S: Fair B: Fair	<b>C.1</b> <10 yrs Located adjacent to road. Tall and sparse crown with many crown lift wounds up stem not occluded. Cluster of Pholiota squarrosa at base around a wound of approx. 100mm diameter. Single toadstool adjacent to stem.	
<b>T28</b>												
Silver Birch <i>Betula pendula</i>	15	3	451 (Eq)	N	5	2	EM	A: 92 R: 5.41	Good	C: Good S: Good B: Good	<b>B.1</b> 20+ yrs Located in grass. Stem forks at 0.5m into 3. Union between 2 stems is v-shaped with contact.	
<b>T29</b>												
Sycamore <i>Acer pseudoplatanus</i>	12	1	340	N	5.5	3	EM	A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	<b>B.1.2</b> 20+ yrs Located in grass adjacent to concrete base. No notable features.	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T30</b>												
Common Ash <i>Fraxinus excelsior</i>	15	1	320	N	5	6	EM	A: 46.3 R: 3.83	Fair	C: Fair S: Good B: Good	<b>C.1.2</b> 10+ yrs Located in grass adjacent to concrete base. Stem forks at 3.5m with 1 stem historically snapped at approx. 6m with a linear tear now occluding and new growth from the tip.	
<b>T31</b>												
Common Ash <i>Fraxinus excelsior</i>	3	1	290	N	5	6	EM	A: 38.1 R: 3.48	Fair	C: Fair S: Fair B: Good	<b>C.2</b> 10+ yrs Located in grass adjacent to concrete base. Stem forks at 3.5m with 1 stem historically snapped at approx. 6m leaving a jagged tip. Injuries to exterior of bark around base.	
<b>T32</b>												
Common Ash <i>Fraxinus excelsior</i>	10	1	270	N	4	4	SM	A: 33 R: 3.24	Fair	C: Good S: Fair B: Good	<b>B.2</b> 20+ yrs Located in grass adjacent to concrete base. Injuries to exterior of bark around base. Metal fixture attached to stem for washing line.	
<b>T33</b>												
Sycamore <i>Acer pseudoplatanus</i>	11	1	410	N	5	3	EM	A: 76.1 R: 4.92	Fair	C: Good S: Fair B: Good	<b>C.1</b> 10+ yrs Located in grass adjacent to concrete base. Wounding to base to south 1m x 30cm up to 10cm occlusion. Stem forks at 2m, a crossing branch at 4m	
<b>T34</b>												
Common Ash <i>Fraxinus excelsior</i>	10	1	360	N	3.5	5	EM	A: 58.6 R: 4.31	Fair	C: Fair S: Good B: Good	<b>B.2</b> 20+ yrs Located in grass adjacent to concrete base. Stem forks at 3m. One stem forks again at 4m but one stem has been removed.	
<b>T35</b>												
Common Ash <i>Fraxinus excelsior</i>	12	2	382 (Eq)	N	3.5	5	EM	A: 66 R: 4.58	Poor	C: Fair S: Poor B: Fair	<b>U</b> <10 yrs Located in grass adjacent to concrete base. Stem forks at 0.5m. Northern stem has historical linear wound from base to 3m that is 30cm wide with up to 10cm wound wood, that is colonised by Kretzchmaria deusta at 1.5m measuring 30cm x 25cm	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T36</b>												
Sycamore <i>Acer pseudoplatanus</i>	11	1	430	N	6	5	EM	A: 83.7 R: 5.16	Good	C: Good S: Good B: Good	<b>B.1</b> 20+ yrs Located in border adjacent to hard standing. Stem forks at 2m with v shaped union. Suckers from base.	
<b>T37</b>												
Common Ash <i>Fraxinus excelsior</i>	12	1	240	N	6	5	SM	A: 26.1 R: 2.88	Fair	C: Fair S: Good B: Fair	<b>C.2</b> 10+ yrs Located in border adjacent to hard standing. Comprised of a single stem remaining from multiple stems that have been removed with a spreading basal area and above ground roots. Crown suppressed by neighbour.	
<b>T38</b>												
Turkey Oak <i>Quercus cerris</i>	5	1	70	N	1.5	0.5	Y	A: 2.2 R: 0.83	Good	C: Good S: Good B: Good	<b>C.2</b> 10+ yrs Located adjacent to stone kerb. No notable features.	
<b>T39</b>												
Sycamore <i>Acer pseudoplatanus</i>	11	2	492 (Eq)	N	4.5	4	M	A: 109.7 R: 5.9	Good	C: Good S: Good B: Fair	<b>B.1</b> 20+ yrs Surrounded by dense brambles. Multi stem from base of 2 stems which appears to result from a matured sucker. Larger stem leans to south	
<b>T40</b>											Estimated Measurements	
Common Ash <i>Fraxinus excelsior</i>	11	1	200	N	4	4	SM	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Not visible	<b>C.1.2</b> 10+ yrs Growing adjacent to neighbour which suppresses the crown. Wound to west at 3m up to 10cm occlusion.	
<b>T41</b>											Estimated Measurements	
Common Ash <i>Fraxinus excelsior</i>	12	1	350	N	5	2	EM	A: 55.4 R: 4.19	Good	C: Good S: Good B: Not visible	<b>B.1.2</b> 20+ yrs Located amongst dense brambles limiting access. Natural occurring deadwood within lower crown	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
T42 Red Spruce <i>Picea rubens</i>	10	1	200	N	2.5	1.5	SM	A: 18.1 R: 2.4	Good	C: Good S: Good B: Good	Located in planting border. Crown lift wounds up to 1m. No notable features.	<b>B.2</b> 20+ yrs
Estimated Measurements												
T43 Common Holly <i>Ilex aquifolium</i>	4.5	1	100	N	1.5	1.5	Y	A: 4.5 R: 1.19	Good	C: Good S: Good B: Good	Located in planting border. No notable features.	<b>C.2</b> 10+ yrs
Estimated Measurements												
T44 Leyland Cypress <i>X Cupressocyparis leylandii</i>	8	1	300	N	3	0	EM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	Located in grass adjacent to road. No notable features.	<b>B.2</b> 20+ yrs
Estimated Measurements												
T45 Common Ash <i>Fraxinus excelsior</i>	6.5	1	140	N	2	1.5	SM	A: 8.9 R: 1.68	Good	C: Good S: Good B: Good	Located in gravel adjacent to road. No notable features.	<b>C.2</b> 10+ yrs
Estimated Measurements												
T46 Sycamore <i>Acer pseudoplatanus</i>	8	1	190	N	2	4	SM	A: 16.3 R: 2.27	Fair	C: Good S: Fair B: Fair	Located adjacent to concrete base. Multiple areas of wounding to south of stem up to 1m height not occluded. Pruning wounds around 2m height not occluded up to 80mm diameter.	<b>C.1.2</b> 10+ yrs
Estimated Measurements												
T47 Common Ash <i>Fraxinus excelsior</i>	10	1	480	N	5	2	EM	A: 104.2 R: 5.75	Fair	C: Poor S: Fair B: Good	Located in grass adjacent to concrete base. Original stem has been cut short historically at 5m with some decay of wound, but has regrown to form new crown around the dead stumps with crowded branches. Epicormics around lower stem. Light attached to stem becoming occluded.	<b>C.1.2</b> 10+ yrs
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio



Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
<b>T48</b>												
Sycamore <i>Acer pseudoplatanus</i>	14	1	360	N	4.5	3.5	EM	A: 58.6 R: 4.31	Good	C: Good S: Fair B: Good	Located in grass adjacent to concrete base. Injury to north of stem 30cm long at 2m up to 3cm occlusion	<b>B.2</b> 20+ yrs
<b>T49</b>												
Sycamore <i>Acer pseudoplatanus</i>	14	1	360	N	4.5	4	EM	A: 58.6 R: 4.31	Good	C: Good S: Fair B: Good	Located in grass adjacent to concrete base. Injury to south east of stem at 1m 5cm wound and occlusion but resulting in swollen reactive growth.	<b>B.2</b> 20+ yrs
<b>T50</b>												
Silver Birch <i>Betula pendula</i>	5	1	260	N	1	2	SM	A: 30.6 R: 3.12	Poor	C: Poor S: Poor B: Poor	Surface roots exposed with injury to bark. Previous stem failure of western stem at 1.75m with resulting open cavity and no occlusion. Remaining stem has been shortened to current dimensions	<b>U</b> <10 yrs
<b>T51</b>												
Sycamore <i>Acer pseudoplatanus</i>	12	1	260	N	4	3	EM	A: 30.6 R: 3.12	Fair	C: Good S: Fair B: Fair	Located in grass with slabs against base causing abrasion damage. Stem kinks at 3m.	<b>B.2</b> 20+ yrs
<b>T52</b>												
Common Ash <i>Fraxinus excelsior</i>	14	1	360	N	4	3	EM	A: 58.6 R: 4.31	Fair	C: Fair S: Fair B: Good	Previous codominant stem removed with reaction wood at union and epicormics.	<b>B.1</b> 20+ yrs
<b>T53</b>											Estimated Measurements	
Common Ash <i>Fraxinus excelsior</i>	13	1	550	N	6	3	EM	A: 136.9 R: 6.6	Good	C: Good S: Good B: Fair	Growing at a change in elevation with surface roots exposed. No notable features.	<b>B.1.2</b> 20+ yrs
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T54</b>												
Common Ash <i>Fraxinus excelsior</i>	12	1	390	N	3	2	EM	A: 68.8 R: 4.67	Fair	C: Fair S: Fair B: Fair	<b>C.1.2</b> 10+ yrs Located in grass at slightly elevated level adjacent to concrete base. Previous stem failure from base leaves large wound 30cm diameter. Previous codominant stem removal at 2m occluded with epicormics growing from same place.	
<b>T55</b>												
Common Ash <i>Fraxinus excelsior</i>	13	3	745 (Eq)	N	5.5	5	M	A: 251.2 R: 8.94	Fair	C: Good S: Fair B: Fair	<b>C.1.2</b> 10+ yrs Located adjacent to concrete base that is causing deformation of basal area due to outgrowing location. Surface roots exposed. Stem forks at 1m into 3, 2 of which are in contact. The third has an open cavity of 30cm diameter with decay within. Power line runs through crown.	
<b>T56</b>											Estimated Measurements	
Common Hawthorn <i>Crataegus monogyna</i>	4	4	241 (Eq)	N	1.5	2	SM	A: 26.3 R: 2.89	Fair	C: Fair S: Fair B: Good	<b>C.2</b> 10+ yrs Located within grass. Multi stem at 0.5m into 2 stems which fork again at 1m. 2 of 4 stems are dead.	
<b>T57</b>											Estimated Measurements	
Leyland Cypress <i>X Cupressocyparis leylandii</i>	5	5	368 (Eq)	N	2.5	2	SM	A: 61.3 R: 4.41	Fair	C: Fair S: Poor B: Fair	<b>C.2</b> <10 yrs Growing at base of embankment. Multi stem from base of 3 stems that fork again at 1m. Damage to numerous stems exposes cambium with some occlusion. Black fungus around wounding.	
<b>T58</b>												
Aspen <i>Populus tremula</i>	13	1	450	N	4.5	2.5	EM	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good	<b>B.1</b> 40+ yrs Located in grass. Pruning wound to west at 1m of 6cm diameter with up to 7cm wound wood. Other pruning wounds around lower stem occluded.	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
T59												
White Willow <i>Salix alba</i>	8	2	271 (Eq)	N	5	1	EM	A: 33.1 R: 3.24	Fair	C: Good S: Fair B: Fair	<b>C.1.2</b> 10+ yrs	
				E	5	1					Located at edge of lake with surface roots exposed at surface of water. Stem forks at 0.5m. The smaller fork has linear wounding that has stripped bark for 2m length with minor occlusion. Heavily clad in moss and lichen.	
				S	5	0.5						
				W	5	0.5						
T60												
White Willow <i>Salix alba</i>	6	2	125 (Eq)	N	1.5	0.5	Y	A: 7.1 R: 1.5	Fair	C: Good S: Good B: Fair	<b>C.1.2</b> 10+ yrs	
				E	1.5	0.5					Located at edge of lake within water. Stem forks at 0.5m. Heavily clad in moss and lichen.	
				S	2	0.5						
				W	2	0.5						
T61												
Estimated Measurements												
Grey Willow <i>Salix cinerea</i>	4.5	7	265 (Eq)	N	4	0	SM	A: 31.7 R: 3.17	Good	C: Good S: Good B: Fair	<b>C.1.2</b> 10+ yrs	
				E	4	0					Growing amongst grass. Multi stem from base of numerous spreading stems, with contact between some. Historic pruning is evident of lower branches, no occlusion.	
				S	4	0						
				W	4	1						
T62												
Aspen <i>Populus tremula</i>	7	1	300	N	4	2	EM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Fair	<b>C.1</b> 10+ yrs	
				E	5	1.5					Located in grass. Stem leans to north east from base at approx. 45 degree angle before straightening at 1.5m height. Tree stake is becoming occluded into stem. Damage to some lower branches	
				S	4	1.5						
				W	3	3						
T63												
Estimated Measurements												
Sycamore <i>Acer pseudoplatanus</i>	8	4	549 (Eq)	N	5	3	EM	A: 136.3 R: 6.58	Decline	C: Poor S: Poor B: Poor	<b>U</b> <10 yrs	
				E	5	4					Located in raised mound within grass adjacent to lake. Roots have been pruned and left exposed around 50% of root plate circumference to depth of approx. 40cm. Stability and future vitality of tree limited as a result. Pruning wounds around lower stem not occluded. Retrenchment and dieback of upper 30% of crown.	
				S	3	4						
				W	4.5	3						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
<b>T64</b>											
Common Ash <i>Fraxinus excelsior</i>	8	4	213 (Eq)	N	3	2	SM	A: 20.6 R: 2.56	Fair	C: Good S: Fair B: Fair	<b>C.2</b> 10+ yrs
				E	3.5	2					Located in grass. Multi stem from base, 1 stem has been removed. 2 stems have tight v-shaped union. Superficial damage to bark around base due to vandalism. Linear wound to smallest stem from 1.5m to 2m up to 3cm wound wood.
				S	3.5	2					
				W	3.5	3					
<b>T65</b>											Estimated Measurements
White Willow <i>Salix alba</i>	7	2	177 (Eq)	N	2.5	2	SM	A: 14.1 R: 2.11	Good	C: Good S: Not visible B: Not visible	<b>C.2</b> 10+ yrs
				E	2.5	2					Growing amongst dense scrub vegetation, not visible to assess. Apparent multi stem at 1m.
				S	2.5	2					
				W	2.5	2					
<b>T66</b>											Estimated Measurements
Grey Willow <i>Salix cinerea</i>	4.5	4	200 (Eq)	N	3	0	SM	A: 18.1 R: 2.4	Good	C: Good S: Not visible B: Not visible	<b>C.2</b> 10+ yrs
				E	3	0					Growing amongst dense scrub vegetation, not visible to assess. Apparent multi stem from base with spreading form.
				S	3	0					
				W	3	0					
<b>T67</b>											
Common Alder <i>Alnus glutinosa</i>	6	3	211 (Eq)	N	3.5	1.5	SM	A: 20.1 R: 2.52	Fair	C: Good S: Fair B: Good	<b>C.2</b> 10+ yrs
				E	3.5	1.5					Located in grass. Multi stem at 0.5m. Heavy lichen coverage. Peeling bark from lower stem.
				S	3.5	2.5					
				W	3.5	2					
<b>T68</b>											
White Poplar <i>Populus alba</i>	10	1	210	N	2	2	SM	A: 20 R: 2.52	Fair	C: Good S: Fair B: Good	<b>C.2</b> 10+ yrs
				E	2	2					Columnar variety. Located in grass. Wounding around stem at 1m obscured by new sucker growth from around the lower stem. Occlusion occurring but suckers are becoming trapped within.
				S	2	2					
				W	2	2					
<b>T69</b>											Estimated Measurements
White Poplar <i>Populus alba</i>	13	7	423 (Eq)	N	4	4	M	A: 81.1 R: 5.08	Fair	C: Good S: Fair B: Fair	<b>B.1.2</b> 20+ yrs
				E	5	3					Located in grass adjacent to tarmac. Evidence of historic root plate shift with a lean to east from base. Multi stem from 0.5m with natural branch shedding due crowded unions. Some included unions within. Columnar variety.
				S	5	3					
				W	4	4					
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature							
	Y	Young	M	Mature							
	SM	Semi-mature	OM	Over Mature							
<b>Condition:</b>	C	Crown									
	S	Stem									
	B	Basal area									
<b>Stems:</b>	Ø	Diameter									
	(Eq)	Equivalent stem diameter using BS5837:2012 definition									
<b>ERC:</b>		Estimated Remaining Contributio									

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T70</b>												
White Poplar <i>Populus alba</i>	8	1	110	N	1	3	Y	A: 5.5 R: 1.32	Fair	C: Fair S: Fair B: Fair	<b>C.1</b>  Located in grass adjacent to tarmac. Crown suppressed by neighbour. Columnar variety. Basal wounding likely strimmer damage 30cm x 10cm with up to 5cm occlusion. Heavy lichen coverage.  <b>&lt;10 yrs</b>	
<b>T71</b>												
Common Hawthorn <i>Crataegus monogyna</i>	5	6	490 (Eq)	N	3	1	M	A: 108.6 R: 5.87	Fair	C: Good S: Fair B: Good	Estimated Measurements  <b>C.2</b>  Located in grass. Multi stem from 0.5m, comprising multiple stems twisted amongst each other with contact.  <b>10+ yrs</b>	
<b>T72</b>												
Wild Cherry <i>Prunus avium</i>	4	1	200	N	1	1	SM	A: 18.1 R: 2.4	Poor	C: Poor S: Poor B: Poor	Estimated Measurements  <b>U</b>  Tree has fallen to an almost horizontal angle with an attempt to support it with cable that has caused injury to the stem.  <b>&lt;10 yrs</b>	
<b>T73</b>												
Scots Pine <i>Pinus sylvestris</i>	12	2	494 (Eq)	N	5.5	2	M	A: 110.4 R: 5.92	Good	C: Good S: Good B: Good	<b>A.2</b>  Located in grass adjacent to building. Low side limbs create a spreading form. No notable features.  <b>20+ yrs</b>	
<b>T74</b>												
Common Silver Fir <i>Abies alba</i>	8	1	200	N	2.5	0	SM	A: 18.1 R: 2.4	Good	C: Good S: Good B: Good	<b>B.1.2</b>  Located in grass adjacent to concrete base. No notable features.  <b>20+ yrs</b>	
<b>T75</b>												
Crab Apple <i>Malus sylvestris</i>	3.5	2	158 (Eq)	N	3	1.5	SM	A: 11.3 R: 1.89	Fair	C: Fair S: Fair B: Fair	<b>C.1</b>  Located in grass. Stem leans to east at approx. 45 degree angle. Forks at 1.25m  <b>10+ yrs</b>	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
T76 Common Hawthorn <i>Crataegus monogyna</i>	5	3	284 (Eq)	N	3.5	2	EM	A: 36.5 R: 3.4	Fair	C: Good S: Fair B: Good	10+ yrs C.2 Located in grass. Stem forks at 1m with crowded unions, some have been pruned back resulting in epicormics.	
Estimated Measurements												
T77 Common Hawthorn <i>Crataegus monogyna</i>	6	5	311 (Eq)	N	3.5	2	EM	A: 43.8 R: 3.73	Fair	C: Good S: Fair B: Fair	10+ yrs C.2 Located in grass adjacent to building. Stem forks into numerous stems from base with crowded unions, some have been pruned back, including one stem of approx. 150mm that has fungus within wound.	
Estimated Measurements												
T78 Leyland Cypress <i>X Cupressocyparis leylandii</i>	7	1	240	N	2	2	SM	A: 26.1 R: 2.88	Good	C: Good S: Good B: Good	10+ yrs C.2 Located in grass. Tall crown clearance. Stem leans slightly to north east.	
Estimated Measurements												
T79 Sycamore <i>Acer pseudoplatanus</i>	10	2	256 (Eq)	N	4.5	3	EM	A: 29.7 R: 3.07	Good	C: Good S: Good B: Fair	20+ yrs B.1.2 Located in grass adjacent to tarmac. Stem forks at 0.5m with included bark. A small hole to the base of the tree to south.	
Estimated Measurements												
T80 Sycamore <i>Acer pseudoplatanus</i>	10	1	260	N	4.5	3	EM	A: 30.6 R: 3.12	Good	C: Good S: Good B: Good	20+ yrs B.1.2 Located in grass adjacent to tarmac. Slight lean to east	
Estimated Measurements												
T81 Wild Cherry <i>Prunus avium</i>	7.5	2	234 (Eq)	N	4.5	1	SM	A: 24.8 R: 2.8	Good	C: Good S: Good B: Good	20+ yrs B.1.2 Located in grass adjacent to tarmac. Central stem with side limb. Some minor bleeds on old pruning wounds approx. 1cm diameter.	
Estimated Measurements												
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T82</b>												
Crab Apple <i>Malus sylvestris</i>	3.5	2	106 (Eq)	N	2.5	1	Y	A: 5.1 R: 1.27	Fair	C: Fair S: Fair B: Fair	<b>C.2</b> 10+ yrs	
				E	2.5	1					Located in grass adjacent to tarmac. Crown suppressed by neighbour. Multi stem from 0.5m with twisting smaller branches from the union.	
				S	2	1						
				W	1	1.5						
<b>T83</b>												
Common Hawthorn <i>Crataegus monogyna</i>	5	2	283 (Eq)	N	3	1	M	A: 36.2 R: 3.39	Good	C: Good S: Not visible B: Not visible	<b>C.2</b> 10+ yrs	
				E	3	1					Estimated Measurements	
				S	3	1					Not visible to fully assess.	
				W	3	1						
<b>T84</b>												
Silver Birch <i>Betula pendula</i>	10	2	512 (Eq)	N	6.5	2	M	A: 118.7 R: 6.14	Fair	C: Good S: Fair B: Good	<b>B.1</b> 20+ yrs	
				E	5.5	5					Located in grass adjacent to brick wall. Multi stem from base. Each stem has had a major limb removed in the past of up to 150mm diameter, which has resulted in cavity formation up to 20cm deep., with up to 4cm occlusion. Other pruning wounds around lower stems partially occluded	
				S	5	3						
				W	5	4						
<b>T85</b>												
Mountain Ash <i>Sorbus aucuparia</i>	3.5	1	110	N	1.5	2.5	Y	A: 5.5 R: 1.32	Fair	C: Fair S: Fair B: Fair	<b>C.1</b> <10 yrs	
				E	1.5	2.5					Located in grass adjacent to tarmac. Previous codominant stem has been removed, no occlusion. Brittle appearance.	
				S	1	2.5						
				W	1	2.5						
<b>T86</b>												
Common Ash <i>Fraxinus excelsior</i>	12	3	343 (Eq)	N	5	2	EM	A: 53.2 R: 4.11	Good	C: Good S: Fair B: Good	<b>B.1</b> 20+ yrs	
				E	5	2					Located in grass and has broken through wooden fence which makes contact. Multi stem from base of 2 stems, 1 forks again just above base. Lower stem pruning wounds not occluded.	
				S	5	1.5						
				W	5	2						
<b>T87</b>												
Grey Alder <i>Alnus incana</i>	8	1	200	N	4	5	SM	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Fair	<b>C.2</b> 10+ yrs	
				E	4	4					Located in grass adjacent to tarmac. Suckers and epicormics grow around lower stem and base. Slightly suppressed crown by neighbour. Abrasive contact between 2 branches.	
				S	2.5	3						
				W	2.5	4						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio



Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
T88 Turkey Oak <i>Quercus cerris</i>	11	2	721 (Eq)	N E S W	7 10 8.5 7	1 1 1 1	M A: 235.3 R: 8.65	Good	C: Good S: Good B: Not visible	Growing in grass surrounded by brambles that prevent assessment of base area. Stem forks from base. Historic large pruning wound on larger stem fully occluded with reactive growth. Spreading form.	A.1.2 40+ yrs	
Estimated Measurements												
T89 Common Hawthorn <i>Crataegus monogyna</i>	3.5	2	175 (Eq)	N E S W	2 2 2 2	1 1 1 1	SM A: 13.8 R: 2.09	Good	C: Good S: Good B: Good	Located in grass. No notable features.	C.2 10+ yrs	
Estimated Measurements												
T90 Common Ash <i>Fraxinus excelsior</i>	10	4	320 (Eq)	N E S W	3.5 3.5 3.5 4	3 1.5 1.5 1.5	EM A: 46.4 R: 3.84	Fair	C: Good S: Good B: Fair	Located in grass. Multi stem from base of 3 stems, 1 forks again at 1m. Injury to this stem around the union, mostly occluded.	C.2 10+ yrs	
Estimated Measurements												
T91 Sycamore <i>Acer pseudoplatanus</i>	8	1	190	N E S W	3 3 2 1.5	3 3 3 4	SM A: 16.3 R: 2.27	Fair	C: Good S: Fair B: Fair	Located in grass adjacent to fence. Wounding from 0.5m to 1.5m with 8cm wound and 5cm wound wood. Suckers around base	C.2 10+ yrs	
Estimated Measurements												
T92 Common Hawthorn <i>Crataegus monogyna</i>	3.5	2	143 (Eq)	N E S W	2 2 2 2	1 1 1 1	SM A: 9.3 R: 1.72	Good	C: Good S: Good B: Good	Located in grass. No notable features.	C.2 10+ yrs	
Estimated Measurements												
T93 Sycamore <i>Acer pseudoplatanus</i>	10	2	335 (Eq)	N E S W	3 3 3 3	2 2 2 2	EM A: 50.9 R: 4.02	Good	C: Good S: Good B: Good	Located in grass adjacent to tarmac and fence. Multi stem from 1m with a v shaped union. Epicormics around base.	B.1 20+ yrs	
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T94</b>												
Sycamore <i>Acer pseudoplatanus</i>	7	1	200	N	2.5	3	SM	A: 18.1 R: 2.4	Good	C: Fair S: Good B: Good	<b>C.1</b> 10+ yrs	
				E	3	2						
				S	3.5	3						
				W	3	4						
<b>T95</b>												
Sycamore <i>Acer pseudoplatanus</i>	6	1	200	N	3	3	SM	A: 18.1 R: 2.4	Good	C: Fair S: Fair B: Good	<b>C.1</b> 10+ yrs	
				E	3	3						
				S	3.5	3						
				W	3	3						
<b>T96</b>											Estimated Measurements	
Weeping Willow <i>Salix chrysocoma</i>	15	2	1371 (Eq)	N	12.5	0	M	A: 707 R: 15	Good	C: Good S: Fair B: Good	<b>B.1</b> 40+ yrs	
				E	12.5	1						
				S	11.5	0						
				W	10.5	2						
<b>T97</b>												
Sycamore <i>Acer pseudoplatanus</i>	3	1	110	N	1	1	Y	A: 5.5 R: 1.32	Fair	C: Fair S: Fair B: Fair	<b>C.2</b> 10+ yrs	
				E	2	1						
				S	1							
				W	1	1						
<b>T98</b>											Estimated Measurements	
Common Hawthorn <i>Crataegus monogyna</i>	4	2	212 (Eq)	N	2.5	0	SM	A: 20.4 R: 2.54	Good	C: Good S: Good B: Not visible	<b>C.2</b> 10+ yrs	
				E	2.5	0						
				S	2.5	0						
				W	2.5	0						
<b>T99</b>											Estimated Measurements	
Common Hawthorn <i>Crataegus monogyna</i>	3.5	4	200 (Eq)	N	2	0	SM	A: 18.2 R: 2.4	Good	C: Good S: Good B: Good	<b>C.2</b> 10+ yrs	
				E	2	0						
				S	2	0						
				W	2	0						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
<b>T100</b>											
Sycamore <i>Acer pseudoplatanus</i>	6.5	1	220	N	3	2	SM	A: 21.9 R: 2.64	Good	C: Good S: Good B: Good	<b>B.2</b> 20+ yrs
				E	3	2				Located in grass adjacent to tarmac. Superficial animal damage to lower trunk. No notable features.	
				S	3	2					
				W	3	2					
<b>T101</b>											
Blackthorn <i>Prunus spinosa</i>	4	1	160	N	2.5	2	EM	A: 11.6 R: 1.92	Fair	C: Fair S: Fair B: Fair	<b>C.1</b> <10 yrs
				E	2.5	2				Located in grass. Wounding to south of stem at 1m partially occluded. Leans to east	
				S	2.5	2					
				W	2	3					
<b>T102</b>											
Common Hawthorn <i>Crataegus monogyna</i>	3	4	176 (Eq)	N	2	0	SM	A: 14.1 R: 2.11	Good	C: Good S: Good B: Good	<b>C.2</b> 10+ yrs
				E	2	0				Located in grass adjacent to pond edge. Multi stem from base. No notable features	
				S	2	0					
				W	2	0					
<b>T103</b>											
Sycamore <i>Acer pseudoplatanus</i>	7	2	311 (Eq)	N	4	1	EM	A: 43.9 R: 3.73	Good	C: Good S: Good B: Good	<b>B.2</b> 20+ yrs
				E	4	1				Located in grass adjacent to road. Stem bifurcates at 1m with a u- shaped union. No notable features.	
				S	3	1.75					
				W	3.5	1.5					
<b>T104</b>											
White Willow <i>Salix alba</i>	13	4	747 (Eq)	N	7.5	4	EM	A: 252.1 R: 8.95	Fair	C: Good S: Fair B: Fair	<b>C.2</b> 10+ yrs
				E	10	1				Located on grass embankment. 4 stems from the base. The central stem has failed previously leaving a linear crack from the base to 6m height with some occlusion taking place to seal the lower half. The upper section has failed all the way through and has been colonised by fungal fruiting bodies and a cavity has formed.	
				S	8	1					
				W	8	1					
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter	
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
<b>T105</b>												
Sycamore <i>Acer pseudoplatanus</i>	13	1	330	N	5	3	EM	A: 49.3 R: 3.96	Good	C: Good S: Good B: Good	Located in grass on slight embankment. Stem leans slightly to east. Previous pruning wound to west at 1m 4cm diameter with up to 6cm wound wood. Stem forks at 2.5m into 2.	<b>B.1</b> 20+ yrs
<b>T106</b>												
Aspen <i>Populus tremula</i>	10	1	290	N	3.5	2	SM	A: 38.1 R: 3.48	Good	C: Good S: Good B: Not visible	Located as an individual at the edge of large groups of trees. Growing in tall grass, with a small sunken pool of water settled between two buttresses. No notable features.	<b>B.1.2</b> 20+ yrs
<b>T107</b>												
Silver Birch <i>Betula pendula</i>	7	1	250	N	3.5	0.5	SM	A: 28.3 R: 3	Good	C: Good S: Good B: Not visible	Located in tall grass with a slight lean to east. Defined buttresses with moss growth.	<b>C.2</b> 20+ yrs
<b>T108</b>												
Common Oak <i>Quercus robur</i>	15	1	480	N	4	2	EM	A: 104.2 R: 5.75	Fair	C: Fair S: Good B: Good	Located in grass. Upper stem has died with retrenchment onset.	<b>C.2</b> 20+ yrs
<b>T109</b>												
Poplar <i>Populus sp.</i>	8	1	270	N	4	1.5	SM	A: 33 R: 3.24	Poor	C: Fair S: Poor B: Not visible	Located in grass with materials located around base. A fallen oak has landed in immediate proximity, anticipated to have made contact with crown causing damage to upper and western side of stem.	<b>U</b> <10 yrs
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area	<b>ERC:</b>			Estimated Remaining Contributio

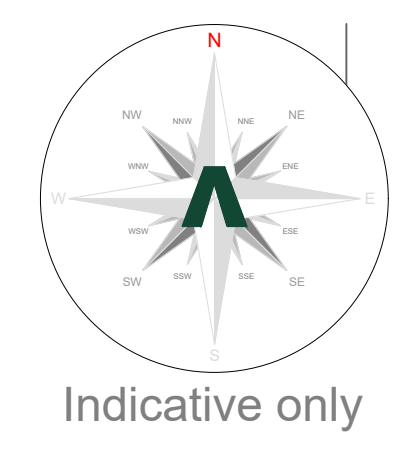
Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>T110</b>												
Turkey Oak <i>Quercus cerris</i>	20	1	840	N	6.5	4	M	A: 319.2 R: 10.07	Poor	C: Poor S: Fair B: Fair	<b>C.2</b> 10+ yrs	
				E	6.5	3						
				S	5	5						
				W	5	4						
<b>T111</b>												
Silver Birch <i>Betula pendula</i>	12	1	230	N	3.5	3	SM	A: 23.9 R: 2.75	Fair	C: Fair S: Fair B: Good	<b>C.2</b> 10+ yrs	
				E	2.5	2						
				S	3	2						
				W	3.5	3						
<b>T112</b>												
Turkey Oak <i>Quercus cerris</i>	20	1	670	N	5	3	M	A: 203.1 R: 8.04	Decline	C: Fair S: Poor B: Poor	<b>C.2</b> <10 yrs	
				E	3.5	5						
				S	5	5						
				W	5.5	2						
<b>T113</b>												
Poplar <i>Populus sp.</i>	11	2	318 (Eq)	N	2	2	SM	A: 45.7 R: 3.81	Fair	C: Fair S: Fair B: Not visible	<b>C.2</b> 10+ yrs	
				E	2	1						
				S	2	1						
				W	2	1						
<b>T114</b>												
Turkey Oak <i>Quercus cerris</i>	10	1	610	N	3	1	M	A: 168.4 R: 7.32	Decline	C: Poor S: Poor B: Poor	<b>C.1</b> 10+ yrs	
				E	5	1						
				S	5	2						
				W	5	1.5						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>			C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature				B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
<b>T115</b>											
Turkey Oak <i>Quercus cerris</i>	18	1	730	N	8	3	M	A: 241.1 R: 8.76	Good	C: Good S: Good B: Good	<b>B.1.2</b> 20+ yrs Located in grass. Lower branches pruned with wounds of up to 2cm not occluded. Relatively pronounced buttresses. Epicormics up lower stem.
<b>T116</b>											
Silver Birch <i>Betula pendula</i>	6	1	210	N	2.5	2	SM	A: 20 R: 2.52	Poor	C: Poor S: Fair B: Fair	<b>U</b> <10 yrs Located in grass, crown has been suppressed by neighbour. Upper stem snapped from 3.5m leaving a ripped wound unoccluded. Stem leans to south east. Wound at 0.5m to north 10cm diameter up to 7cm wound wood.
<b>T117</b>											
Turkey Oak <i>Quercus cerris</i>	18	1	710	N	6	3	M	A: 228.1 R: 8.52	Fair	C: Good S: Fair B: Fair	<b>C.1.2</b> 10+ yrs Located in grass. Bracket of Ganoderma resinaceum of 25cm diameter at base. Wound to base to east 10cm diameter with up to 8cm wound wood. Historic linear wound to south of stem from 2m to 4m height now occluded
<b>T118</b>											Estimated Measurements
Common Ash <i>Fraxinus excelsior</i>	10	1	250	N	2	1	SM	A: 28.3 R: 3	Decline	C: Poor S: Poor B: Not visible	<b>U</b> <10 yrs Located amongst long grass and scrub obscuring lower stem. Previous stem failure has exposed entire western half of the stems inner cambium to decay. Epicormics are forming all the remaining crown.
<b>W1</b>											Estimated Measurements
Various <i>See comments for details</i>	20	1	300	N	4	1	EM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	<b>B.1.2</b> 20+ yrs A largely closed canopy woodland with a few gaps in the canopy. Under storey is comprised of leaf litter, ivy and brambles. Includes a typical mix of woodland species and ages such as oak (Turkey, common), sycamore, elm, with lower storey hawthorn. Crosses over into neighbours site.
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter	
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature		B	Basal area	<b>ERC:</b>		Estimated Remaining Contributio	

## Appendix 3: Tree Constraints Plan

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Indicative only

**Tree Categories**

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

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

Category 'V' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.

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

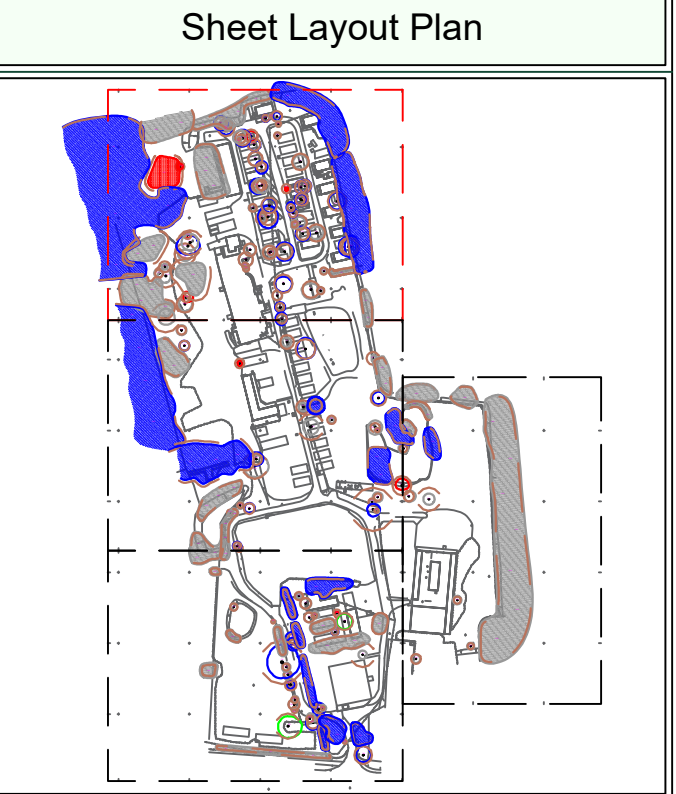
Category 'C' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 50mm.

**Root Protection Area**

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Area (RPA) should be defined around each of the category U, W and C trees. This is a minimum area in which should be left undisturbed around each retained tree.

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

The calculated RPA is capped to 7.5m<sup>2</sup>, which is the equivalent to a circle with a radius of 1.5m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.



Project: **Great Birchwood Country Park, Lytham Road, Warton, Lancashire, PR4 1TE**

Client: **Prydis Ltd.**

Drawing: **Tree Constraints Plan**

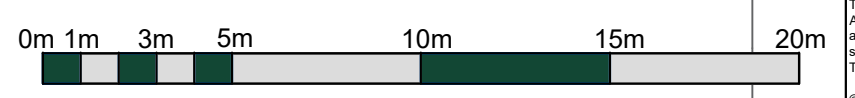
Based on: **U06757**

Drawing No: **Arbtech TCP 01 1 of 4** Rev: **--**

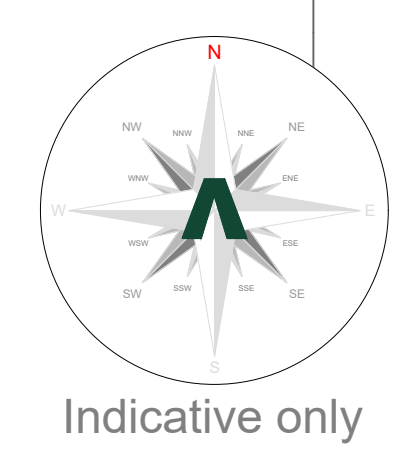
Date: **Nov 2021** Scale: **1:200 @ A0** Drawn: **EK**

Key:

Tree Nos.	T1	Trunks	○	RPA's	○
Category 'U' trees	○	Category 'U' groups	○	Category 'U' trees	○
Category 'W' trees	○	Category 'W' groups	○	Category 'W' trees	○
Category 'C' trees	○	Category 'C' groups	○	Category 'C' trees	○
Category 'U' groups	○	Existing site plan	○		







Indicative only

**Tree Categories**

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

Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.  
 Category 'V' - Trees of moderate quality with an estimated remaining life expectancy of at least 40 years.  
 Category 'W' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.  
 Category 'X' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 50mm.

**Root Protection Area**

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Area (RPA) should be defined around each of the category 'U' and 'V' trees. This is a minimum area in which should be left undisturbed around each retained tree.

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'. The calculated RPA is capped to 75%<sup>th</sup>, which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

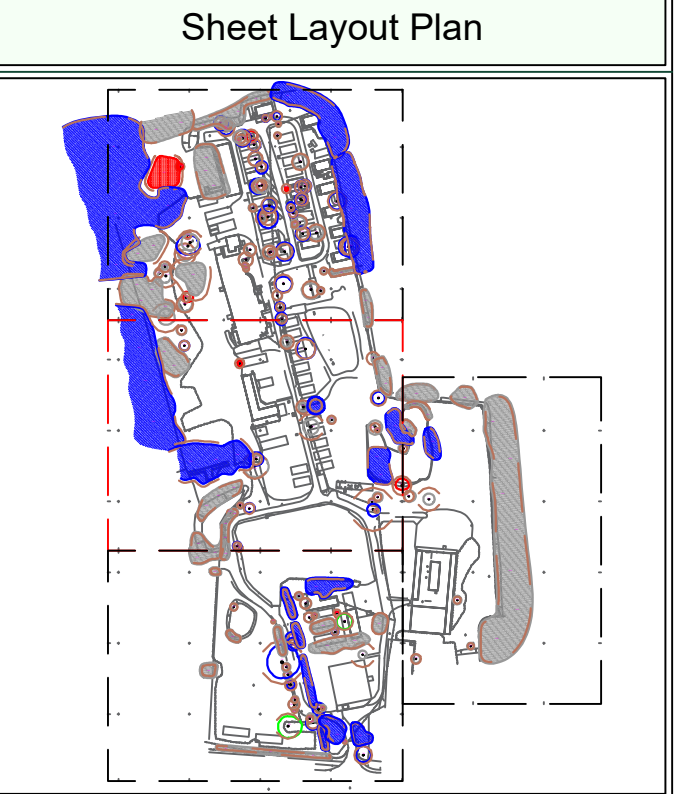
**Tree Survey Report**

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

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

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

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



Unit 3, Well House Barns, Chester, CH4 0DH  
<https://arbtech.co.uk>, 01244 661170

**Project:** Great Birchwood Country Park, Lytham Road, Warton, Lancashire, PR4 1TE

**Client:** Prydis Ltd.

**Drawing:** Tree Constraints Plan

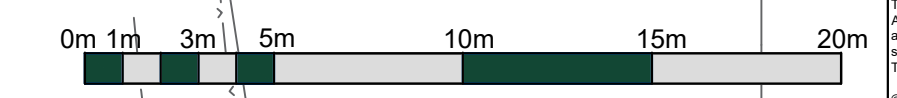
**Based on:** U06757

**Drawing No:** Arbtech TCP 01 2 of 4 **Rev:** --

**Date:** Nov 2021 **Scale:** 1:200 @ A0 **Drawn:** EK

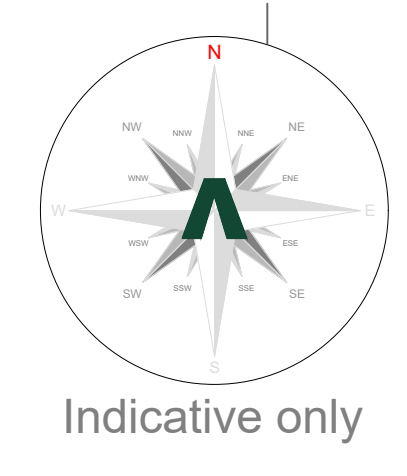
**Key:**

Tree Nos.:	T1	Trunk:	○	RPA:	○
Category 'U' trees:	○	Category 'U' groups:	○	Category 'X' trees:	○
Category 'W' trees:	○	Category 'W' groups:	○	Category 'V' trees:	○
Category 'X' trees:	○	Existing site plan:	○		



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**Tree Categories**

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

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

Category 'V': Trees of moderate quality with an estimated remaining life expectancy of at least 40 years.

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

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

**Root Protection Area**

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Area (RPA) should be defined around each of the category 'U', 'V' and 'W' trees. This is a minimum area in which should be left undisturbed around each retained tree.

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

The calculated RPA is capped to 7.5m<sup>2</sup>, which is the equivalent to a circle with a radius of 1.5m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

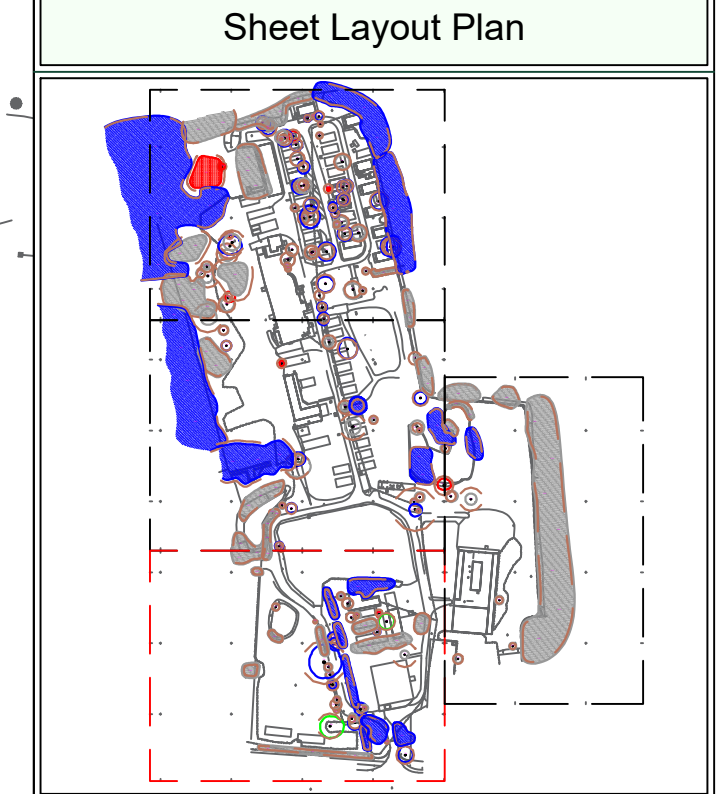
**Tree Survey Report**

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

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

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

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



**Project:**  
Great Birchwood Country Park,  
Lytham Road,  
Warton,  
Lancashire,  
PR4 1TE

**Client:**  
Prydis Ltd.

**Drawing:**  
Tree Constraints Plan

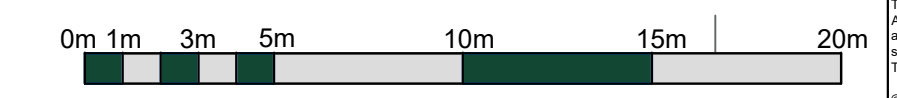
**Based on:**  
U06757

**Drawing No:**  
Arbtech TCP 01 3 of 4

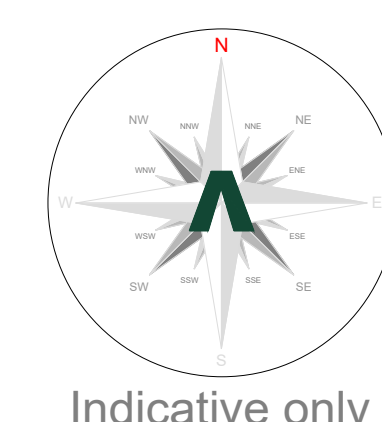
**Date:** Nov 2021 **Scale:** 1:200 @ A0 **Drawn:** EK

**Key:**

Tree Nos.:	T1	Trunks:	○	RPAs:	○
Category 'U' trees:	○	Category 'U' groups:	○	Category 'U' trees:	○
Category 'V' trees:	○	Category 'V' groups:	○	Category 'V' trees:	○
Category 'W' trees:	○	Category 'W' groups:	○	Category 'W' trees:	○
Category 'C' groups:	○	Existing site plan:	○		







### Tree Categories

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

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

Category 'X' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.

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

Category 'Z' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 100mm.

### Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category 'X', 'Y' and 'Z' trees. This is a minimum area in m<sup>2</sup> which should be left undisturbed around each retained tree. The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'. The calculated RPA is capped to 707m<sup>2</sup>, which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

### Tree Survey Report

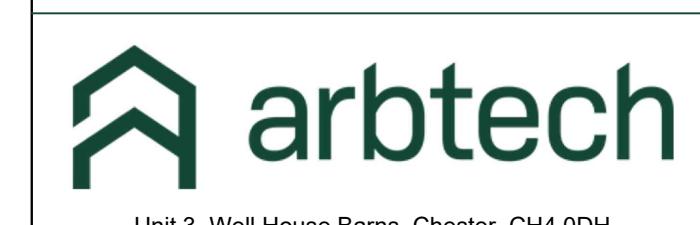
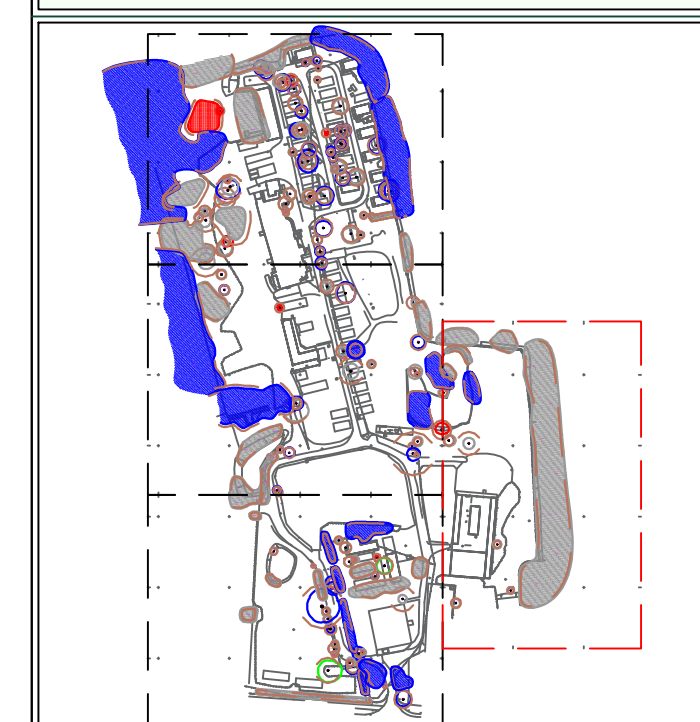
Please refer to Arbtch Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, backgrounds and major shrub groups.

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

We make the following recommendation to ensure that conditions relating to arboriculture are attached to any planning consent secured:

- An arboricultural impact assessment (AIA);
- An arboricultural method statement (AMS); and
- A tree protection plan (TPP).

### Sheet Layout Plan



Unit 3, Well House Barns, Chester, CH4 0DH  
<https://arbtech.co.uk>, 01244 661170

Project: Great Birchwood Country Park, Lytham Road, Warton, Lancashire, PR4 1TE

Client: Prydis Ltd.

Drawing: Tree Constraints Plan

Based on: U06757

Drawing No: Arbtech TCP 01 4 of 4

Date: Nov 2021


Scale: 1:200 @ A0

Drawn: EK

Tree No.	Category	Group	RPA
T1	Category 'U'	Group 'U'	Circle
	Category 'X'	Group 'X'	Circle
	Category 'Y'	Group 'Y'	Circle
	Category 'Z'	Group 'Z'	Circle
	Existing site plan		Rectangle

0m 1m 3m 5m 10m 15m 20m

## Document Production Record

Document number	Editor	Signature	Position	Issue number	Date
Arbtech TSR 01	Emily Kempson		Consultant	1	25/11/2021

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