



Arboricultural Survey Report

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THE
ENVIRONMENT
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**THE LANES
PENWORTHAM
ARBORICULTURE SURVEY REPORT**

The Lanes
 Penwortham
 Arboriculture Survey Report

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G6900.001-005 - Tree Constraints Plan

1.0 Introduction

- 1.1 Taylor Wimpey and Homes England are seeking to obtain planning permission for residential-led mixed-use development on land to the east of Penwortham Way known as 'The Lanes, Penwortham' (hereafter referred to as 'the site').
- 1.2 TEP was commissioned, in April 2018, to undertake an arboriculture survey of the site.

Description of Survey Area

- 1.3 The central grid reference of the site is SD 53329 25884 and the location of the site is shown in Figure 1 below. The red line boundary shows the application areas.
- 1.4 The site is irregular in shape and occupies approximately 52ha on land to the east of Penwortham Way to the south of the settlement of Penwortham.
- 1.5 The site is bound by Penwortham Way to the west, existing residential development south of Kingsfold Drive to the north, the West Coast mainline railway to the east and agricultural fields to the south.
- 1.6 The site comprises a mix of land uses including:
 - Agricultural land separated into a number of fields by fences, hedgerows and trees;
 - Pylon accommodation land;
 - Pylon corridor; and
 - Roads.
- 1.7 The site surrounds a number of residential dwellings and light industrial buildings which do not lie within the application boundary.

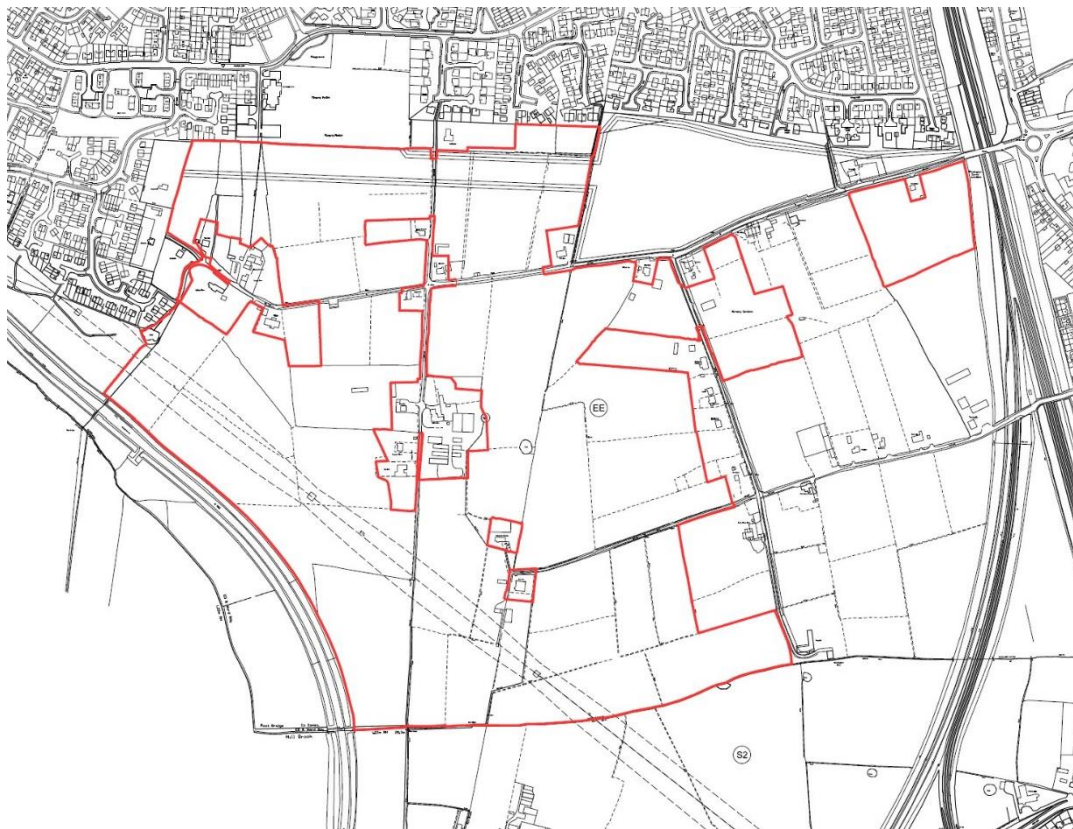


Figure 1: Survey Area. Contains Ordnance Survey data © Crown copyright and database right 2018

2.0 Methods

- 2.1 The survey was carried out in May 2018 by means of inspection from ground level by a qualified Arboricultural Consultant. Trees were assessed in accordance with BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations. Under the British Standard the assessment of trees is made objectively. The categorisation method identifies the quality and value of the existing tree stock.
- 2.2 A topographical survey was used to record the position of trees and vegetation. Where the age distribution and species mix of tree cover was relatively uniform, trees were plotted as groups. The locations of all trees should be regarded as approximate and confirmed on site.
- 2.3 A full survey methodology is provided in Appendix B of this report.

3.0 Results

- 3.1 158 individual trees; 89 groups of trees; and 88 hedges were recorded within or adjacent to the site.
- 3.2 Of the 335 surveyed features, 153 are in good condition; 168 are in fair condition; 13 are in poor condition; and 1 is dead.
- 3.3 The most common individual tree species is common ash with English oak and common alder the second and third most abundant. This list does not necessarily reflect the relative proportions of species in the whole tree population: rather the relative likelihood of being recorded as an individual tree. Hawthorn was the most abundant tree within groups and was present in the majority of hedgerows
- 3.4 A schedule of all trees and groups in terms of species, condition, age, management recommendations and BS 5837:2012 quality categories is provided at Appendix A.
- 3.5 The site in general is open with tree cover largely restricted to internal hedgerows and site boundaries with only very occasional open grown trees. They are generally middle age to mature with a small population of younger trees often associated with the residential properties within the site.
- 3.6 The consistency of tree cover throughout the site is notable in that there is no significant concentration of any one tree species or condition in any part of the site. High quality trees can be found throughout the site although there is a slightly greater concentration of higher quality trees around residential properties.
- 3.7 Examples of high quality trees include T163, T165 and T166, all are English oak within a hedgerow in a field parcel south of Bee Lane. Trees T165 and T166 have only minor defects typical of the species, age and location such as broken branches, pruning wounds and minor dead wood.
- 3.8 Tree T163 is one of the largest on the site; it is growing next to a water filled ditch and the ground around it is heavily compacted by livestock. It has some superficial fire damage to the main stem as well as numerous cavities and dead wood that provide some good habitat. This tree should be considered as a potential future veteran should the features present continue to develop.
- 3.9 There are some areas of consistent tree planting that have good landscape value and form large blocks of canopy cover. The largest of these is G53, a large linear plantation forming a screen between the site and Penwortham Way to the west.
- 3.10 Hedgerows on site are predominantly hawthorn, they are generally well managed, form effective boundary features and connectivity is good.
- 3.11 The site is internally divided by several narrow roads but associated tree cover is homogenous throughout with no distinct differences noted.
- 3.12 Tree and group locations, their quality categories and canopy spreads are shown on Drawing 1.

Tree Quality Categorisation

- 3.13 Under BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations, trees and groups are objectively assigned a quality category to quantify their value within any future development. The table below contains a summary of the categories presented in the British Standard. The full table has been reproduced at Appendix B.

Table 1 Summary of BS 5837 tree quality categorisation criteria

Category A	Trees of high value including those that are particularly good examples of their species and/or those that have visual importance or significant conservation or other value
Category B	Trees of moderate value including those that do not qualify as Category A due to impaired condition and/or those that collectively have higher value than they would as individuals; also trees with material conservation or other value
Category C	Trees of low value including those with very limited merit or impaired condition; trees offering transient or temporary landscape benefits
Category U	Trees with irremediable defects and anticipated early loss due to collapse; dead trees or those in immediate decline and those with infectious pathogens that threaten other trees

- 3.14 The table below provides an overview of the results of the categorisation process of trees within the site. The quality category for each individual feature is provided at Appendix A and represented graphically on Drawing 1.

Table 2 Breakdown of surveyed trees by quality category

	Category A	Category B	Category C	Category U
Individual Trees (158)	11	71	74	2
Groups of Trees (89)	4	52	33	0

4.0 Conclusions and Recommendations

General Considerations

- 4.1 Trees form a material consideration in the planning process. The tree categorisation method identifies the quality and value of the existing tree stock but is not meant to be interpreted rigidly and is presented in order to allow an informed judgement on tree retention and removal. In some instances, the removal of high or moderate value trees can be justified based on other development priorities and their weighting in the planning balance.
- 4.2 Foremost consideration should be given to the retention of high value (A Category) features. These trees should be retained in plans for any future development. The requirement to remove these trees must be justified by sound design rationale. All possible options must have been exhausted to avoid their removal, without incurring unacceptable levels of additional cost that outweigh the benefits of retaining the trees. In this case, there will be a requirement for a higher level of mitigation compared to the removal of moderate or low value trees.
- 4.3 Moderate value trees (Category B) should be retained wherever possible within future development plans due to their aesthetic, amenity and screening value that would be more difficult and expensive to immediately replace. In some cases they are the next generation of high value trees or provide functions that cannot be readily recreated via new tree planting within a short to medium time frame. The requirement to remove these trees must be justified by sound design rationale and may result in the requirement for an increased level of mitigation compared to the removal of lower value trees.
- 4.4 The presence of Category C trees should not unduly constrain development design, but wherever possible they should be incorporated into future development plans, as these currently provide areas of young establishing woodland cover.

Root Protection Areas

- 4.5 As per BS 5837:2012, the Root Protection Area (RPA) is calculated using each tree's diameter at 1.5 metres¹ and represents the minimum area around each tree that must be left undisturbed to ensure its survival.
- 4.6 Tree roots can typically spread further than the width of the crown, although this figure may be significantly increased for certain species and where specific ground conditions are present. The majority of tree roots are found in the top 600mm of soil and most of the fine roots that absorb water and nutrients are found close to the surface.
- 4.7 The morphology of roots is influenced by past and present site conditions (including roads, buried structures and underground services), soil type, topography and drainage. This means that a tree's roots may not be uniform in extent and the RPA may not be a circular area centred on the tree stem.

¹ Refer to Appendix A for RPA area calculations

- 4.8 On this site, likely barriers to root growth include existing hard surfaced roads, ditches and water features and long term agricultural practices. Roots are unlikely to be absent in all these areas but where unfavourable conditions exist, growth will certainly be impeded.
- 4.9 The RPA has been adjusted or offset where appropriate to most accurately represent the likely spread of roots for each individual tree².

Tree Work

- 4.10 Additional management may be required in response to a change in land use that may result from the development indicated on the Masterplan. A specification for all tree work operations should be produced for future Phases. This would include operational standards for all types of pruning and tree felling method according to best practice. This would ensure that tree work is undertaken to a consistently acceptable standard across all parts of the site.

Arboricultural Impact Assessment

- 4.11 A detailed Arboricultural Impact Assessment (AIA) will be required in support of a reserved matter/full application. This should identify, evaluate and possibly mitigate the impacts of developing land on the existing tree resource based on the final layout proposal.
- 4.12 One function of the AIA process should be the consideration of trees alongside other project disciplines (layout, drainage, utilities etc.) in order to minimise future conflict and avoid unexpected expense or undesirable tree loss. An AIA should also detail tree protection measures unless deferred.
- 4.13 The AIA should also make an assessment, based on the projected growth of any proposed tree planting within a reasonable timeframe, of whether each phase of the development would have the potential to result in a net gain, loss or balance of tree cover. Tree growth projections should consider the growth rate of individual tree species, as well as available soil volumes, above ground space for canopy expansion and ownership, and how this might affect the likelihood of long-term retention.

Arboricultural Method Statement

- 4.14 Tree Protection Measures and construction methods to prevent harm to retained trees in accordance with BS5837:2012 should be detailed within an Arboricultural Method Statement prior to commencement of each Phase of future development.
- 4.15 The purpose of an AMS is to demonstrate how the proposed operations will be undertaken with minimal risk of adverse impact on trees to be retained. It must set the parameters within which construction will be undertaken and comprise commitments to complete the construction phase of the development in a specific manner. It must also inform the production of all relevant tender documents and instructions to contractors.

² See Drawing 1 for RPA shapes

- 4.16 Construction methods presented in an AMS are likely to be the result of collaboration between an Arboricultural Consultant and other project specialists. This process may result in the use of non-conventional building techniques and those allowing more control over soil and root disturbance.
- 4.17 Protection measures in an AMS should be specified in accordance with BS 5837:2012. Further information and assessment on the following elements will be required, as a minimum, to ensure adequate protection is afforded to trees during and post construction.
- An arboriculturist should be appointed to prepare the Arboricultural Method Statement prior to development commencement. They may thereafter be required to supervise certain activities as specified by the Method Statement.
 - Detailed methods should be specified for the implementation of construction in proximity to retained trees determined in consultation with other project specialists.
 - The build programme and site logistics plan should be reviewed in relation to retained trees.
 - Utilities and drainage information should be reviewed in relation to retained trees.
 - Levels information should be reviewed in relation to retained trees.
 - The alignment and specification of temporary protection measures for the satisfactory retention of trees during the build phase (barrier fencing and ground protection) should be specified.
 - Details of general precautions that should be exercised during the construction phase to minimise impact on retained trees should be provided.
 - A system of monitoring and compliance of contractor performance, materials and workmanship according to the AMS should be established.
 - The AMS should be submitted to the local planning authority for approval and implemented in full.

APPENDIX A: Arboricultural Survey Data

APPENDIX A: Arboricultural Survey Data Sheets



Surveyor Angus Blankenstein
Date 01/05/2018
Town Penwortham
Site The Lanes
Dwg Ref D6900.03.001-005

Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N

Trees

T4	English oak	10.0	400	1.0	3.0	3.0	3.0	3.0	2.0	W	Middle Age	Good	Good form; barbed wire embedded into trunk; small deadwood	B,1	4.8	72.4		Long	
T7	Common alder	12.0	503	4.0	3.0	3.0	3.0	4.0	0.0	N	Middle Age	Fair	Multi-stemmed at base; tall slender form; ivy covered trunk and into canopy; crossing branches; broken branches	C,1	6.0	114.7		Medium	
T14	Common ash	10.0	1000	1.0	4.0	4.0	4.0	4.0	5.0	S	Mature	Dead	90% standing deadwood; lower branches removed	U	0.0	0.0		Short	
T26	Common alder	12.0	630	1.0	5.0	5.0	6.0	6.0	2.0	N	Mature	Fair	Growing within G14; large cavities and splits; moderate deadwood; crossing branches; slight lean east; sparse canopy; bat potential	C,1	7.6	179.6		Medium	
T27	Common alder	11.0	510	1.0	5.0	5.0	5.0	5.0	4.0	N	Mature	Fair	Growing within G14; small cavity to west at 2m; second leader possibly failed; epicormic shoots; sparse crown	C,1	6.1	117.7		Medium	
T28	Common alder	11.0	544	2.0	6.0	5.0	5.0	5.0	3.0	W	Middle Age	Fair	Sparse crown; wounds from branch failures; holes and cavities; crossing branches; bat potential	C,1	6.5	133.9		Medium	
T29	Common ash	12.0	466	4.0	5.0	2.0	4.0	5.0	0.0	NE	Mature	Fair	Multi-stemmed at base; hollow in trunk at base; large wounds from previous branch failures; old pollard; decaying stems; growing on stream edge	C,1	5.6	98.1		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m ²)		Long, Medium, Short	Y/N
T30	Goat willow	7.0	222	5.0	7.0	6.0	6.0	2.0	0.0	E	Middle Age	Fair	Multi-stemmed at base; canopy touching ground; one branch broken and hanging; crossing stems and branches; bark wounds; spreading form	C,1	2.7	22.4	Removed	Medium	
T31	Common alder	6.0	326	2.0	5.0	1.0	3.0	2.0	2.0	NW	Middle Age	Fair	Growing on edge of stream; dense ivy on trunk; crossing branches; wounds from branch failures; reduced	C,1,2	3.9	48.1		Medium	
T32	Common ash	10.0	530	1.0	5.0	5.0	5.0	5.0	4.0	NE	Middle Age	Fair	Barbed wire embedded into trunk; wounds from failed branches; crossing branches; holes and cavities; trifurcate at 4m; slightly sparse crown; moderate deadwood; bat potential	B,1,2	6.4	127.1		Long	
T33	Common ash	9.0	394	2.0	7.0	6.0	6.0	6.0	0.0	NE	Middle Age	Fair	Bifurcate at base; crossing branches; dense vegetation at base; minor bark wounds	B,1,2	4.7	70.3		Long	
T34	Common ash	12.0	533	3.0	3.0	5.0	6.0	6.0	0.0	S	Mature	Fair	Multi-stemmed at base; dense vegetation at base; crossing branches; moderate deadwood	C,1,2	6.4	128.6		Long	
T35	Common alder	9.0	600	1.0	1.0	5.0	1.0	4.0	3.0	N	Mature	Fair	Epicormic shoots on trunk; twisted stems; wounds from failed branches; burred trunk; slight lean west; suppressed to north-east by T33	B,1,2	7.2	162.9		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T40	Common alder	7.0	540	1.0	4.0	4.0	4.0	5.0	3.0	E	Mature	Good	Growing in H12; ivy covered trunk and into canopy; reduced branches; minor wounds on branches	B,1,2	6.5	131.9		Medium	
T41	Common alder	8.0	520	1.0	6.0	6.0	6.0	3.0	3.0	NW	Mature	Good	Growing in H12; ivy covered trunk and into canopy; reduced branches; minor wounds on branches; suppressed to west	B,1,2	6.2	122.3		Medium	
T42	Common ash	8.0	590	1.0	4.0	6.0	6.0	3.0	4.0	NE	Mature	Good	Growing in H12; ivy covered trunk and into canopy; reduced branches; minor wounds on branches; moderate deadwood	B,1,2	7.1	157.5		Medium	
T43	Common ash	10.0	810	1.0	5.0	6.0	7.0	5.5	4.0	E	Mature	Fair	Growing within G26; multi-stemmed at 4m; previously reduced; good regrowth; minor bark wounds	B,1,2	9.7	296.8		Long	
T44	Common alder	8.0	600	1.0	3.0	5.0	5.0	4.0	2.0	N	Mature	Good	Roadside tree; bifurcate at 2m; dead ivy on trunk; wounds from failed branches; holes and cavities; slight lean north; epicormic shoots; crossing branches; bat potential	B,1	7.2	162.9		Long	
T45	Common ash	11.0	800	1.0	5.0	5.0	5.0	5.0	1.5	W	Mature	Good	Bifurcate at 1.5m; bark wounds; some dieback with moderate deadwood; broken branches and stubs	B,1	9.6	289.5		Long	
T46	Common alder	10.0	660	1.0	6.0	6.0	7.0	5.0	4.0	NE	Middle Age	Good	Dense ivy on trunk and into canopy; wounds from failed branches; multi-stemmed at 4m; roadside tree; bat potential	B,1	7.9	197.1		Long	
T47	Common alder	8.0	550	1.0	4.5	5.0	3.0	4.0	4.0	S	Mature	Good	Dense ivy on trunk and into canopy; wounds from failed branches; multi-stemmed at 4m; roadside tree; bat potential	B,1	6.6	136.8		Long	
T48	Common alder	8.0	540	1.0	4.0	4.0	4.0	4.0	3.0	N	Mature	Good	Dense ivy; roadside tree; minor deadwood; crossing branches	B,1	6.5	131.9		Long	
T49	Common ash	11.0	790	1.0	6.0	6.0	7.0	7.0	3.0	NE	Mature	Good	Large wounds from failed branches to north; dense ivy; holes in branches; moderate deadwood; bifurcate at 3m; wounds on branches; bat potential	B,1	9.5	282.3		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T50	Silver birch	10.0	450	1.0	4.0	4.5	6.0	3.0	3.5	SW	Mature	Fair	Third party; dense ivy on trunk; bark wounds; broken branches; bat potential	C,1	5.4	91.6		Medium	
T51	Common ash	12.0	860	1.0	6.0	7.0	7.0	5.0	4.0	E	Mature	Good	Bifurcate at 4m; large branches previously crown reduced; good re-growth; growing within G29; slightly asymmetrical crown	B,1	10.3	334.6		Long	
T52	Common ash	14.0	650	1.0	7.0	7.0	7.0	7.0	3.0	S	Middle Age	Good	Restricted access due to location in garden; base not visible; cavity in trunk on west side; previously reduced; good form and vigour; balanced crown; bat potential	B,1	7.8	191.1		Long	
T56	Sycamore	10.0	570	1.0	4.0	4.0	5.0	4.0	3.0	W	Middle Age	Good	Multi-stemmed at 4m; young branches shooting from base; crossing branches; good form; large crack with internal decay from 2-4m north	B,1	6.8	147.0		Medium	
T57	Hawthorn	5.0	284	3.0	1.0	1.0	2.0	2.0	0.0	NE	Middle Age	Fair	Multi-stemmed; crossing stems and branches; minor deadwood; brambles at base; some stems fused together	C,1	3.4	36.5		Long	
T58	Sycamore	9.0	430	1.0	4.0	3.0	4.0	3.0	2.0	W	Middle Age	Good	Single stem; bifurcate at 6m; minor deadwood; good form; cavity on main leader	B,1	5.2	83.6		Long	
T59	Sycamore	9.0	470	1.0	4.0	4.0	4.0	4.0	2.0	W	Middle Age	Good	Bifurcate at 2m; minor deadwood; small hole in branch stub	B,1	5.6	99.9		Long	
T60	Common ash	12.0	610	1.0	6.0	6.0	6.0	6.0	4.0	N	Middle Age	Good	Bifurcate at 4m; dense ivy on trunk; minor deadwood; low growing branches; crossing branches; barbed wire embedded into trunk; bat potential	B,1	7.3	168.3		Long	
T61	Apple	5.0	350	1.0	2.0	2.0	2.0	2.0	2.0	N	Middle Age	Poor	Growing in middle of field; suckering at base; ivy in trunks; major deadwood; in decline; large decay cavity at base to south-west	C,1	4.2	55.4		Short	
T63	Sycamore	12.0	630	1.0	3.0	4.0	4.0	3.0	3.0	N	Middle Age	Good	Bifurcate at 3m; ivy on trunk; minor deadwood; small broken branches; good form; balanced crown	B,1	7.6	179.6		Long	
T64	Common ash	13.0	650	1.0	5.0	5.0	5.0	4.0	1.5	S	Mature	Fair	Bifurcate at 6m; trunk growing into wooden fence; major deadwood; wounds from failed branches; ivy on trunk	C,1	7.8	191.1		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T65	Common ash	12.0	969	2.0	6.0	5.0	7.0	4.0	4.0	S	Mature	Fair	Dense ivy on trunk; bifurcate at base; moderate deadwood; bat potential	B,1	11.6	425.1		Long	
T66	Common ash	9.0	700	1.0	6.0	4.0	5.0	5.0	1.5	E	Middle Age	Poor	Dense ivy on trunk; major deadwood; wounds; splits and cavity; broken branches; bat potential	C,1,2	8.4	221.7		Long	
T67	Common ash	12.0	750	1.0	6.0	8.0	7.0	4.0	2.0	N	Middle Age	Fair	Dense ivy on trunk; wounds from failed branches and decay in branches; moderate deadwood; cavities on branches to north side; hole in decayed branch to south; bat potential	C,1,2	9.0	254.5		Long	
T68	Common ash	12.0	920	1.0	7.0	2.0	8.0	6.0	1.5	W	Mature	Fair	Barbed wire embedded on trunk; holes in branches; cavities; moderate deadwood; large dead branches in top canopy; bat potential; major dieback with associated dead wood; major failure to south with large cavity at 5m	C,1,2	11.0	382.9		Short	
T69	English oak	12.0	680	1.0	7.0	8.0	8.0	4.0	5.0	E	Mature	Fair	Third party; large wounds from failed branches; splits and crevices; dense ivy; moderate deadwood; bat potential; large pruning wounds with brash piled to south	B,1,2	8.2	209.2		Medium	
T70	Common ash	8.0	417	2.0	4.0	8.0	8.0	5.0	3.0	E	Middle Age	Fair	Bifurcate; stem fused together; tight unions; asymmetrical crown; crossing branches; growing in wooden fence	C,1	5.0	78.8		Medium	
T71	Common ash	14.0	810	1.0	6.0	9.0	8.0	8.0	5.0	S	Mature	Fair	Large wounds from failed branches; extensive fruiting bodies 'inonotus hispidus' on trunk at wound points; moderate deadwood; cavities; wounds on trunk at base; bifurcate at 5m; bat potential	C,1	9.7	296.8		Short	

APPENDIX A: Arboricultural Survey Data Sheets

Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T72	Common ash	17.0	750	1.0	9.0	3.0	5.0	10.0	4.0	NW	Mature	Poor	Kink in stem; fruiting body inonotus hispidus on trunk; many small holes in trunk, possibly from old fruiting bodies; loose bark on decaying stems; major deadwood; in decline; new growth at base; large dead branch	C,1	9.0	254.5		Short	
T73	Common ash	15.0	700	1.0	5.0	5.0	5.0	3.0	4.0	E	Mature	Fair	Ivy on trunk; reduced branch over public footpath; wounds from previous failed branches; crossing branches; moderate deadwood	B,1	8.4	221.7		Long	
T74	Common ash	13.0	620	1.0	6.0	7.0	7.0	6.0	4.0	SW	Mature	Good	Densely ivy covered; moderate deadwood; growing in hedgerow; bat potential	B,1	7.4	173.9		Long	
T75	Sycamore	10.0	280	1.0	3.0	4.0	5.0	4.0	3.5	W	Middle Age	Good	Densely ivy covered; moderate deadwood; growing in hedgerow; bat potential	B,1	3.4	35.5		Long	
T76	Common ash	11.0	780	1.0	7.0	7.0	7.0	7.0	2.0	SE	Mature	Good	Ivy on trunk; moderate deadwood; growing in hedgerow; balanced crown; bird box; good form and vigour	B,1	9.4	275.2		Long	
T77	Common ash	12.0	710	1.0	6.0	5.0	5.0	6.0	2.0	W	Mature	Fair	Fruiting body inonotus hispidus on trunk; moderate deadwood; holes in branches; decayed branches; wounds from failed branch; limbs removed to east; low growing canopy; bat potential; decay pockets with seepage noted	C,1	8.5	228.0		Medium	
T78	Common ash	12.0	760	1.0	7.0	7.0	7.0	7.0	2.0	S	Mature	Good	Branches reduced over footpath; ivy on trunk; crossing branches; moderate deadwood	B,1	9.1	261.3		Long	
T79	English oak	12.0	500	1.0	6.0	5.0	7.0	6.0	2.0	W	Mature	Good	Ivy on trunk; holes in trunk; crossing branches; growing in G47; bat potential	B,1	6.0	113.1	Removed	Long	
T80	Sycamore	5.0	300	1.0	3.0	3.0	3.0	3.0	1.5	N	Middle Age	Fair	Growing in hedge; multi-stemmed at 2m; ivy on trunk; minor deadwood	C,1	3.6	40.7		Long	
T81	Common ash	12.0	958	2.0	6.0	7.0	7.0	7.0	2.5	SE	Mature	Fair	Growing in hedge; main stem bifurcate at 3m; large cavity in union; hollow trunk; further cavities in branches; wounds from failed branches; roadside tree; bat potential; large established basal suckers noted	C,1	11.5	415.3		Medium	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T82	Common ash	12.0	700	1.0	7.0	7.0	6.0	8.0	4.0	W	Mature	Fair	Large wounds from failed branches; moderate deadwood; cracks and splits in branches; bat potential; good vigour	B,1	8.4	221.7		Medium	
T83	Common alder	12.0	610	1.0	5.0	7.0	6.0	7.0	4.0	E	Mature	Good	Growing in hedge; small wound from failed branch; cavity at base to south-west; balanced crown; good form and vigour; no major defects noted	A,1	7.3	168.3		Long	
T84	Horse chestnut	9.0	300	1.0	3.0	4.0	5.0	5.0	2.5	E	Middle Age	Fair	Trifurcate at 2.5m; minor bark wounds; crossing branches	C,1	3.6	40.7		Long	
T85	Common alder	5.0	320	1.0	3.0	3.0	2.0	2.0	5.0	N	Middle Age	Fair	Barbed wire embedded into trunk; crown lifted to 4m; moderate deadwood; exposed roots around trodden mud; waterlogging and compaction	C,1	3.8	46.3		Medium	
T86	Common alder	7.0	440	1.0	5.0	4.0	4.0	4.0	4.0	S	Middle Age	Fair	Cavities in trunk; wounds from failed branches; moderate deadwood; bat potential; waterlogging and compaction	C,1	5.3	87.6		Medium	
T87	Common alder	7.0	400	1.0	4.0	4.0	4.0	4.0	4.0	W	Middle Age	Fair	Cavities in trunk; wounds from failed branches; moderate deadwood; bat potential; waterlogging and compaction	C,1	4.8	72.4		Medium	
T88	Common alder	6.0	380	1.0	3.0	3.0	3.0	3.0	2.0	N	Middle Age	Poor	Decayed stem, only 50% remaining; leaning north; deadwood; wounds from failed branches; waterlogging and compaction	C,1	4.6	65.3		Medium	
T89	Common alder	8.0	540	1.0	4.0	5.0	7.0	4.0	2.0	W	Middle Age	Fair	Barbed wire embedded into trunk; moderate deadwood; wounds from failed branches; crossing branches; large wound to south from failed branch with decay evident; bat potential	C,1	6.5	131.9		Medium	
T90	Common ash	12.0	720	1.0	3.0	6.0	6.0	7.0	3.0	W	Mature	Poor	Large cavity at base on south side; barbed wire fence embedded in trunk; Perenniporia fraxinea fruiting body on trunk; extensive decay up stem; dead branch in crown; in decline; bat potential	C,1	8.6	234.5		Short	
T91	Common alder	5.0	550	1.0	2.0	5.0	4.0	3.0	2.0	W	Middle Age	Fair	Dense ivy on trunk and into canopy; minor deadwood; good form; crossing branches; bat potential	C,1	6.6	136.8		Medium	
T92	Common ash	10.0	550	1.0	5.0	5.0	7.0	4.0	2.0	N	Mature	Good	Large exposed roots on trodden soil; ivy on trunk and into canopy; major deadwood; crossing branches; lean east	C,1	6.6	136.8		Medium	

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Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T93	Common ash	10.0	700	1.0	4.0	6.0	5.0	5.0	5.0	S	Mature	Fair	Ivy on stem; large dead branches with decay; moderate deadwood; bat potential; root damage and waterlogging at base	C,1	8.4	221.7		Long	
T94	Common alder	8.0	730	1.0	4.0	6.0	5.0	4.0	3.0	W	Mature	Fair	Wounds from failed branches; holes in stem and branches; slight lean south; crossing branches; moderate deadwood; bat potential; waterlogging and compaction at base	C,1	8.8	241.1		Medium	
T95	Common alder	9.0	520	1.0	4.0	4.0	4.0	4.0	2.0	W	Mature	Fair	Small amount of ivy on trunk; crossing branches; moderate deadwood; reduced branches	B,1	6.2	122.3		Medium	
T96	Common ash	14.0	700	1.0	6.0	2.0	5.0	6.0	5.0	N	Mature	Fair	Bifurcate at 5m; asymmetrical crown; moderate deadwood; dense ivy; large branch lost to south; crossing branches	B,1,2	8.4	221.7		Long	
T97	Common ash	16.0	900	1.0	6.0	3.0	7.0	7.0	3.0	W	Mature	Fair	Ivy on trunk; large branches removed; moderate deadwood; crossing branches; branch wounds growing on side of ditch to south	B,1,2	10.8	366.4		Long	
T98	Common alder	5.0	500	1.0	5.0	4.0	6.0	2.0	2.0	N	Mature	Poor	Ditch to south; large exposed roots; main leader failed; ivy on trunk; crossing branches; twisted branches	C,1,2	6.0	113.1		Medium	
T99	Common ash	11.0	600	1.0	3.0	5.0	4.0	6.0	1.5	S	Mature	Good	Ivy on trunk and into canopy; minor deadwood; crossing branches; large basal suckers with livestock damage	C,1	7.2	162.9		Medium	
T100	Common ash	12.0	700	1.0	4.0	5.0	6.0	6.0	3.0	W	Mature	Fair	Barbed wire embedded into trunk; moderate deadwood; small crevices; slight lean east; exposed roots; crossing branches	B,1,2	8.4	221.7		Long	
T101	Common ash	12.0	673	2.0	5.0	4.0	5.0	5.0	0.5	N	Mature	Good	Bifurcate at 0.5; crossing branches; moderate deadwood; low growing canopy; some dieback noted	C,1,2	8.1	204.7		Long	
T102	Common ash	9.0	520	1.0	5.0	5.0	5.0	5.0	2.0	W	Mature	Good	Crossing branches; good form; dense canopies; moderate deadwood; branches reduced	B,1,2	6.2	122.3		Long	
T103	Common alder	6.0	416	2.0	3.0	3.0	3.0	1.0	0.0	N	Middle Age	Fair	Bifurcate at base; spreading form; crossing branches; minor bark wounds	C,1	5.0	78.3		Medium	

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Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T104	White willow	8.0	600	1.0	4.0	4.0	4.0	4.0	2.0	N	Middle Age	Fair	Restricted access; multi-stemmed at 2m; dense canopy; crossing branches	C,1	7.2	162.9		Medium	
T105	Common ash	12.0	1050	1.0	6.0	5.0	7.0	5.0	2.5	S	Mature	Fair	Slight lean south towards ditch; large wound from failed branch to east; bifurcate at 2.5m; failed branch to north trunk; reduced branches; moderate deadwood; crossing braches; bat potential; some large dead limbs	B,1,2	12.6	498.8		Long	
T106	Common ash	10.0	720	1.0	5.0	3.0	4.0	7.0	2.0	W	Mature	Fair	Large wound from failed branch to south-east; in decline; top canopy dead; holes in dead branches; cavities; exposed roots; trunk lean east; bat potential; major dieback in upper crown	C,1,2	8.6	234.5		Medium	
T107	Sycamore	9.0	450	1.0	4.0	4.0	4.0	4.0	2.5	N	Middle Age	Fair	Broken hanging branch to south; large amount of deadwood; barbed wire embedded into trunk; bark wounds; small hole in dead branch to south; lean to east	C,1	5.4	91.6		Medium	
T108	Common alder	8.0	420	1.0	3.0	2.0	4.0	4.0	2.5	NE	Middle Age	Fair	Densely ivy covered; elder growing into canopy; minor deadwood; crossing braches; multi stemmed at 2m	C,1	5.0	79.8		Medium	
T109	Common ash	10.0	650	1.0	3.0	3.0	4.0	3.0	4.0	S	Mature	Fair	Easterly lean; dense ivy on trunk; moderate deadwood; large dead branch to east	B,1,2	7.8	191.1		Long	
T110	English oak	10.0	650	1.0	3.0	3.0	3.0	3.0	3.0	W	Middle Age	Good	Easterly lean; ivy on trunk; low growing canopy; moderate deadwood; previously reduced	B,1,2	7.8	191.1		Long	
T111	Common ash	12.0	790	1.0	4.0	6.0	5.0	6.0	3.0	W	Mature	Fair	Trifurcate at 3m; removed branches; small holes in trunk and on branches; moderate deadwood; crossing branches; barbed wire embedded in trunk; bat potential; some large dead limbs	B,1	9.5	282.3		Long	
T112	Common ash	12.0	700	1.0	2.0	2.0	6.0	6.0	4.0	E	Mature	Fair	Growing in front garden of property; dense ivy on trunk and into canopy; large amount of deadwood; wounds from failed branches; asymmetrical crown; in decline	C,1	8.4	221.7		Medium	
T113	Common ash	12.0	450	1.0	5.0	7.0	4.0	4.0	3.0	N	Mature	Fair	Dense ivy; large reduced branches; moderate deadwood; bifurcate at 4m; new-regrowth; growing in hedge	B,1	5.4	91.6		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m ²)		Long, Medium, Short	Y/N
T114	Sycamore	9.0	350	1.0	3.0	3.0	3.0	3.0	3.0	W	Middle Age	Fair	Dense ivy; dead branches; sparse canopy	C,1	4.2	55.4		Long	
T115	Common ash	15.0	800	1.0	4.0	5.0	4.0	4.0	3.0	SW	Mature	Fair	Growing behind hedge; crossing branches; minor deadwood; low growing canopy; wound from failed branch to north; small Daldinia concentrica on trunk; heavily burred stem	B,1	9.6	289.5		Long	
T120	Common ash	10.0	750	1.0	4.0	4.0	4.0	4.0	4.0	E	Mature	Poor	Almost dead; roadside tree; holes in branches; ivy on trunk; Daeldinia concentrica on trunk; bat potential	U	0.0	0.0		Short	
T121	Common ash	11.0	620	1.0	4.0	4.0	5.0	6.0	2.0	W	Mature	Good	Branch to west failed; dense ivy covering trunk; failed branches; splits in branches; dense canopies; branches reduced over road; trunk leans to east; bat potential	B,1	7.4	173.9		Long	
T122	Common ash	13.0	600	1.0	5.0	4.0	5.0	5.0	4.0	N	Middle Age	Good	Dense ivy on trunk; crossing branches; minor deadwood	B,1,2	7.2	162.9		Long	
T123	Goat willow	8.0	278	4.0	3.0	3.0	3.0	3.0	1.0	SW	Middle Age	Good	Dense canopy; restricted access; multi-stemmed at 1m; crossing branches	B,1	3.3	34.8		Medium	
T124	Common ash	15.0	890	1.0	1.0	4.0	2.0	3.0	3.0	NW	Mature	Fair	Growing in H57; suckering at base; large deadwood in crown; basal cavity with Perenniporia fraxinea	C,1	10.7	358.3		Medium	
T125	English oak	8.0	600	1.0	6.0	6.0	2.0	6.0	4.0	N	Middle Age	Good	Kink in trunk; minor bark wounds; moderate deadwood; large branch removed; reduced	B,1	7.2	162.9		Long	
T126	Common ash	11.0	350	4.0	2.0	2.0	2.0	2.0	0.0	N	Middle Age	Fair	Multi-stemmed at base; dense ivy on trunk; split apart at base; large bark wounds	C,1	4.2	55.4		Medium	
T127	English oak	12.0	610	1.0	4.0	8.0	4.0	6.0	3.0	NE	Middle Age	Good	Moderate deadwood; good form; low growing canopy; ditch to north; large suspended broken branch	A,1	7.3	168.3		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T128	English oak	12.0	700	1.0	6.0	8.0	8.0	8.0	4.0	E	Mature	Good	Minor bark wounds; bifurcate at 4m; good form; moderate deadwood	A,1	8.4	221.7		Long	
T129	English oak	8.0	1000	1.0	5.0	6.0	5.0	3.0	3.0	E	Mature	Good	Slight stem lean to east; moderate deadwood; holes in branch ends; wounds from branch failures; bifurcate at 3m; bat potential	A,1	12.0	452.4		Long	
T130	Common alder	10.0	560	1.0	5.0	3.0	5.0	5.0	4.0	SW	Middle Age	Good	Ivy on trunk; previously reduced; multi-stemmed at 4m	B,1	6.7	141.9		Medium	
T131	Common ash	12.0	670	1.0	5.0	6.0	6.0	6.0	5.0	W	Mature	Fair	Moderate deadwood; ivy on trunk; growing on edge of ditch; large reduced branches	C,1	8.0	203.1		Medium	
T132	Sycamore	11.0	570	1.0	4.0	4.0	4.0	4.0	3.0	S	Mature	Fair	Large cavity in trunk at base to south side extending to at least 2m; cavities in trunk; dying back in crown; bat potential	C,1	6.8	147.0		Medium	
T133	English oak	9.0	480	1.0	4.5	4.0	4.0	4.5	2.5	W	Middle Age	Fair	Wound from branch failures to west; major deadwood; crossing branches	B,1	5.8	104.2		Long	
T134	Common ash	12.0	650	1.0	3.0	7.0	2.0	5.0	4.0	W	Mature	Fair	Suckering at base; cavity on trunk to east; moderate deadwood; low growing canopy; slight lean east; bat potential; major basal flare with cavity	C,1	7.8	191.1		Medium	
T135	English oak	9.0	560	1.0	6.0	7.0	6.0	6.0	2.0	S	Middle Age	Good	Moderate deadwood; some ivy on trunk; crossing branches; small cavity in main stem at 2m to south	A,1	6.7	141.9		Long	
T136	Common ash	9.0	930	1.0	4.0	6.0	4.0	4.0	3.0	W	Mature	Fair	Ivy on trunk and into canopy; moderate deadwood; large cavity from failed branch to north at 2m; old pollard at 3m; low growing canopy; bat potential	B,1,3	11.2	391.3		Medium	
T137	English oak	7.0	470	1.0	5.0	7.0	5.0	6.0	2.0	W	Middle Age	Good	Minor bark wound from crossing branches; minor deadwood	B,1	5.6	99.9		Long	
T138	Common ash	9.0	450	1.0	6.0	6.0	6.0	4.0	3.0	NW	Middle Age	Good	Ivy on trunk; roadside trees; bifurcate at 3m; moderate deadwood; good form	B,1,2	5.4	91.6		Long	
T139	Sycamore	7.0	350	1.0	4.0	4.0	4.0	4.0	3.0	W	Middle Age	Good	Bifurcate at 1.5m; stems fused together; crossing branches; good form; barbed wire embedded in trunk on north side; minor deadwood	B,1,2	4.2	55.4		Long	
T140	Common ash	11.0	420	1.0	4.0	4.0	4.0	4.0	2.5	SE	Middle Age	Fair	Suckering at base; moderate deadwood; some ivy on trunk; barbed wire embedded into trunk on north side	C,1	5.0	79.8		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T141	Common ash	12.0	620	1.0	7.0	5.0	9.0	7.0	2.0	N	Mature	Good	Small amount of ivy on trunk; moderate deadwood; low growing canopy; reduced over road	B,1	7.4	173.9		Long	
T142	Common ash	7.0	420	1.0	4.0	5.0	6.0	2.0	4.0	W	Middle Age	Fair	Bifurcate at 4m; large deadwood; wounds at base; bark wounds; compaction to east	C,1	5.0	79.8		Medium	
T143	Common ash	14.0	600	1.0	8.0	7.0	7.0	6.0	4.0	W	Mature	Good	Moderate deadwood; good form; crossing branches; no major defects noted	A,1	7.2	162.9		Long	
T144	Common pear	7.0	600	1.0	5.0	5.0	5.0	5.0	2.0	N	Mature	Good	Multi-stemmed at 2m; suckering at base; crossing branches good form; minor deadwood; minor bark wounds	B,1	7.2	162.9		Long	
T145	Common ash	14.0	550	4.0	3.0	5.0	5.0	4.0	0.0	W	Mature	Fair	Multi-stemmed at base; stem to south west reduced to 1m; reduced to south; wound from failed branch; occluded cavity to north side; bat potential	B,1	6.6	137.0		Long	
T146	Common ash	10.0	540	1.0	4.0	6.0	2.0	5.0	4.0	N	Mature	Fair	Wound from failed branch; hole in trunk to south side; occluded cavities; moderate deadwood; bifurcate at 4m; bat potential	C,1	6.5	131.9		Medium	
T147	Common ash	15.0	800	1.0	6.0	6.0	9.0	6.0	2.0	E	Mature	Fair	Roadside tree; extensive bark wounds on east side from passing vehicles; failed branch to east; wounds from failed branches; 2 branches failed to west; ivy on lower trunk	C,1,2	9.6	289.5		Medium	
T148	Common ash	15.0	840	1.0	6.0	7.0	6.0	7.0	3.0	W	Mature	Good	Roadside tree; ivy on lower trunk; moderate deadwood; small holes in braches	B,1,2	10.1	319.2		Medium	
T149	Common ash	15.0	820	1.0	6.5	8.0	7.0	6.0	4.0	W	Mature	Good	Easterly stem lean; ivy on lower trunk; moderate deadwood; small wounds	B,1,2	9.8	304.2		Long	
T150	Common ash	12.0	610	1.0	7.0	7.0	6.0	6.0	4.0	W	Mature	Good	Multi-stemmed at 4m; wounds from failed branches; moderate deadwood; previously reduced branch over road; ivy on trunk and into canopy	B,1,2	7.3	168.3		Long	
T151	Common ash	12.0	640	1.0	5.0	6.0	6.0	5.0	4.0	W	Mature	Good	Ivy on lower trunk; moderate deadwood; crossing branches; small holes in branches; previously reduced	B,1,2	7.7	185.3		Long	
T152	Common ash	12.0	640	1.0	4.0	6.5	4.0	4.0	4.0	SE	Mature	Good	Ivy on lower trunk; moderate deadwood; crossing branches; small holes in branches; previously reduced	B,1,2	7.7	185.3		Long	
T153	Sycamore	10.0	470	1.0	4.0	4.0	5.0	6.0	2.0	N	Mature	Good	Ivy on trunk; good form; minor bark wounds on branches	B,1,2	5.6	99.9		Long	

APPENDIX A: Arboricultural Survey Data Sheets

Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T154	English oak	12.0	880	1.0	5.0	5.5	7.0	8.0	2.0	W	Mature	Good	Ivy on trunk and into canopy; crossing branches; dense canopy; minor deadwood	A,1,2	10.6	350.3		Long	
T155	Common ash	12.0	900	1.0	9.0	9.0	7.0	9.0	4.0	W	Mature	Fair	Growing on south side of ditch; large failed branch to south-east; dead branches in crown; holes in branches; ivy on lower trunk; moderate deadwood; bat potential; large fungal fruiting body of Perenniporia fraxinea at base to north	B,1	10.8	366.4		Medium	
T156	Common ash	11.0	500	1.0	5.0	5.0	5.0	5.0	3.0	NW	Mature	Fair	Growing on north side of ditch; major deadwood; ivy on trunk; wounds from failed branches; holes in branches; dead in top canopy; bat potential	C,1	6.0	113.1		Long	
T157	Common alder	6.0	250	1.0	1.0	1.0	1.0	1.0	3.0	NW	Middle Age	Fair	Growing in H74; dense ivy; crossing branches	C,1	3.0	28.3		Medium	
T158	Common alder	9.0	500	1.0	5.0	5.0	4.0	4.0	1.5	N	Mature	Good	Growing in hedge; sparse ivy on trunk and into canopy; bifurcate at 1.5; few broken branches; crossing branches	B,1	6.0	113.1		Medium	
T159	Common alder	7.0	490	1.0	4.0	4.0	4.0	4.0	2.0	N	Middle Age	Fair	Sparse and some dead ivy on trunk and into canopy; growing in hedge; wounds from branch failures; moderate deadwood; multi-stemmed at 2	C,1	5.9	108.6		Medium	
T160	Common ash	12.0	860	2.0	4.0	7.0	5.0	5.0	0.5	N	Mature	Fair	Bifurcate at 0.5m; northern trunk was once bifurcate but now fused together leaving a hole through trunk; large amount of deadwood; in decline with heavily poached ground to east	C,1	10.3	334.7		Medium	
T161	English oak	9.0	700	1.0	7.0	8.0	8.0	7.0	2.5	W	Mature	Fair	Kink in trunk to south-east; moderate deadwood; crossing branches; small wounds on branches; wounds from failed branches; some branches previously reduced; poached ground to east	B,1	8.4	221.7		Long	
T163	English oak	8.0	1080	1.0	8.0	7.0	7.0	8.0	2.0	W	Mature	Good	Bifurcate at 1m; moderate deadwood; trunk lean to south; barbed wire embedded into trunk; exposed roots to north; growing on slight slope to south; superficial fire damage on main stem; cavity on southern limb with bat potential	A,1	13.0	527.7		Long	

APPENDIX A: Arboricultural Survey Data Sheets

Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T164	Common ash	9.0	450	1.0	5.0	2.0	5.0	5.0	4.0	E	Middle Age	Poor	Almost dead	C,1	5.4	91.6		Short	
T165	English oak	10.0	580	1.0	5.0	6.0	7.0	7.0	2.0	SW	Mature	Good	Barbed wire embedded in trunk; moderate deadwood	A,1	7.0	152.2		Long	
T166	English oak	9.0	450	1.0	4.0	4.0	4.0	4.0	4.0	W	Middle Age	Good	Restricted access to survey; good form; minor deadwood	A,1	5.4	91.6		Long	
T167	Common ash	8.0	350	1.0	3.0	3.0	3.0	3.0	2.0	SW	Middle Age	Fair	Restricted access to survey; moderate deadwood; wounds from failed braches	B,1	4.2	55.4		Long	
T169	English oak	7.0	250	1.0	2.0	2.0	2.0	2.0	1.0		Middle Age	Fair	Bifurcate at 1m; split at union to base; crossing branches	C,1	3.0	28.3		Long	
T170	English oak	9.0	500	1.0	4.0	4.0	4.0	4.0	5.0	W	Middle Age	Fair	Roadside tree; ivy on trunk and into canopy; moderate deadwood; small bark wounds on branches	B,1	6.0	113.1		Long	
T172	Common alder	5.0	400	1.0	2.0	2.0	2.0	2.0	2.0	E	Middle Age	Fair	Restricted access to survey; dense ivy on trunk and into canopy; growing in hedge; moderate deadwood	C,1	4.8	72.4		Medium	
T173	Common ash	9.0	450	1.0	3.0	4.0	4.0	4.0	4.0	S	Middle Age	Fair	Roadside tree; cracks and crevices; major dead wood throughout; in decline; bifurcate at 4m; bat potential	C,1	5.4	91.6		Medium	
T174	English oak	8.0	480	1.0	3.0	4.0	4.0	6.0	3.0	W	Middle Age	Fair	Roadside tree; major deadwood; sparse crown; wounds from failed branches	C,1	5.8	104.2		Long	
T175	Common ash	12.0	600	1.0	5.0	5.0	6.0	5.5	2.0	NW	Mature	Fair	Roadside tree; large dead branch to south over Nib Lane; dense ivy; major deadwood; in decline	C,1	7.2	162.9		Medium	
T176	Common ash	12.0	900	1.0	7.0	7.0	7.0	7.0	2.0	W	Mature	Fair	New growth at base; large wound from failed branch; moderate deadwood; trunk lean to south east; bat potential; some major branch failures	C,1	10.8	366.4		Long	
T177	Common ash	8.0	450	1.0	3.0	3.0	3.0	3.0	2.0	W	Middle Age	Fair	Growing in hedge; ivy in trunk; crossing branches; moderate deadwood	C,1	5.4	91.6		Long	
T178	English oak	11.0	550	1.0	4.0	4.0	4.0	4.0	3.5	W	Mature	Good	Ivy on trunk; growing in hedge; crossing branches; moderate deadwood	A,1	6.6	136.8		Long	
T179	Common alder	8.0	480	1.0	4.0	4.0	4.0	4.0	3.0	S	Mature	Fair	Growing in hedge; ivy on trunk; cavity in trunk to north at base; wounds from failed branches; moderate deadwood	C,1	5.8	104.2		Medium	

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Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T180	Common alder	9.0	360	1.0	3.0	3.0	3.0	3.0	2.0	E	Middle Age	Fair	Growing in hedge; cavity on trunk to east; moderate deadwood; wounds from failed branches; bat potential	C,1	4.3	58.6		Medium	
T181	Common ash	9.0	500	1.0	4.0	7.0	4.0	4.0	5.0	S	Middle Age	Good	Growing on east side of ditch; barbed wire embedded in trunk; bifurcate at 4m; dense ivy; moderate deadwood	B,1	6.0	113.1		Long	
T182	Common ash	10.0	350	1.0	5.0	6.5	5.0	6.0	3.0	S	Middle Age	Good	Growing on east side of ditch; barbed wire embedded in trunk; bifurcate at 4m; dense ivy; crossing branches; moderate deadwood	B,1	4.2	55.4		Long	
T183	Common alder	7.0	440	1.0	4.0	3.0	3.5	4.0	3.0	N	Middle Age	Fair	Cavity to east at 3m; large wounds to base on east side; large branch failed in canopy to west	C,1	5.3	87.6		Medium	
T184	Common ash	11.0	860	1.0	6.0	6.5	9.0	5.0	3.0	E	Mature	Fair	Bifurcate at 3m; ivy on trunk and into canopy; moderate deadwood; barbed wire on trunk; holes in branch ends; bat potential; some dieback noted	C,1	10.3	334.6		Medium	
T185	Common ash	9.0	370	1.0	4.0	5.5	4.0	4.5	3.0	S	Middle Age	Fair	Suckering at base; dense ivy; moderate deadwood; growing in hedge	C,1	4.4	61.9		Long	
T186	Common ash	15.0	715	4.0	6.0	5.0	6.5	6.0	0.0	S	Mature	Fair	Suckering at base; ivy on trunk; moderate deadwood; holes in branches ; bat potential; some minor dieback	C,1,2	8.6	231.3		Long	
T187	Common ash	12.0	540	1.0	5.0	5.0	7.0	6.0	4.0	N	Mature	Good	Ivy on trunk; moderate deadwood; suckering at base; trifurcate at 4m; wounds from failed branches; bat potential	B,1,2	6.5	131.9		Long	
T188	Common alder	10.0	456	2.0	4.0	4.0	4.0	4.0	2.0	E	Middle Age	Fair	Ivy covered; suckering at base; moderate deadwood; large wound at base to north	C,1	5.5	94.1		Medium	
T189	Sycamore	10.0	532	3.0	4.0	4.0	4.0	4.0	0.0		Middle Age	Fair	Multi-stemmed; large bark wounds at base; decay in stems; tight unions; crossing branches	C,1	6.4	128.2		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
T209	Common ash	12.0	850	1.0	6.0	8.0	9.0	6.0	3.0	W	Mature	Fair	Moderate deadwood; crossing branches; sparse canopy; wounds from failed branches; cavities; bat potential	B,1	10.2	326.9		Long	
T210	English oak	10.0	670	1.0	6.0	7.0	7.0	5.0	2.0	N	Mature	Good	Growing on edge of ditch to north; wounds from failed branches; holes in branches; moderate deadwood; bat potential	B,1	8.0	203.1		Long	
T211	English oak	8.0	610	1.0	2.0	7.0	6.0	7.0	2.0	W	Mature	Fair	Cavity from base to 4m on east side of trunk; large amount of deadwood; exposed roots; barbed wire embedded in trunk; dead branch to east; suppressed to north	C,1	7.3	168.3		Long	
T212	Common ash	12.0	650	1.0	5.0	7.0	5.5	5.0	5.0	S	Mature	Fair	Bifurcate at 5m; wounds from failed branches; moderate deadwood	B,1	7.8	191.1		Long	
T214	Sycamore	11.0	650	1.0	5.0	5.0	4.0	4.0	3.0	SW	Mature	Fair	Dieback in top crown; wounds from failed branches; tight unions; crossing branches; multi-stemmed at 3m	C,1	7.8	191.1		Medium	
T215	Common ash	11.0	480	1.0	3.0	3.0	3.0	3.0	2.0	N	Middle Age	Fair	Major deadwood in canopy; ivy on trunk; growing within H115; dense canopy; decline in top canopy	C,1	5.8	104.2		Medium	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
Groups																			
G2	Hawthorn, elm sp, oak	8.0	75-100	>50							Middle Age	Fair	Multi-stemmed; unmanaged; young multi-stemmed oak; tall slender form; ivy covered stems; roadside group	B,1,2	Refer to Drawing	n/a		Medium	
G14	Hawthorn, blackthorn, elder, bramble	to 7	75-150	>100							Middle Age	Fair	Multi-stemmed; dense scrub; crossing stems and branches; reduced back along public footpath	C,2	Refer to Drawing	n/a		Medium	
G26	Ash, grey willow, elder, blackthorn, hawthorn, alder	to 6	75-550	>20							Middle Age to Mature	Good	Roadside group; multi-stemmed; crossing stems and branches; ivy in some trees; two mature ash	B,1,2	Refer to Drawing	n/a		Long	
G27	Common ash; hawthorn	8.0	75-250	>50							Mature	Good	Roadside trees; ivy on trunks; crossing branches; moderate deadwood; reduced over road	B,1,2	Refer to Drawing	n/a		Long	
G29	Horse chestnut, sycamore, blackthorn, ash, hawthorn, willow	to 18	75-400	>100							Middle Age	Fair	Multi-stemmed; linear roadside group that borders garden; shrubby hawthorn and blackthorn; tall slender form ash and willow	B,2	Refer to Drawing	n/a		Long	
G30	White willow; hawthorn	13.0	100-550	>50							Middle Age to Mature	Fair	Linear field boundary group along road; mature multi-stemmed willow; crossing branches; moderate deadwood; good vigour; bark wounds; epicormic shoots; tall slender form; shrubby hawthorn	B,2	Refer to Drawing	n/a		Long	
G31	Hawthorn, willow, alder	13.0	100-650	>50							Middle Age to Mature	Good	One mature willow with DBH of 650; tall slender form alder; shrubby hawthorn	B,2	Refer to Drawing	n/a		Long	
G32	Leyland cypress	4.0	100-200	>5							Middle Age	Good	Dense row of boundary trees; good form and vigour	B,2	Refer to Drawing	n/a		Long	
G34	Sycamore, hawthorn	14.0	100-350	>20							Middle Age	Good	Multi-stemmed sycamore; ivy on trunk; tall slender form; crossing branches; tight unions; linear field boundary group; some with barbed wire embedded in trunks; shrubby hawthorn	B,2	Refer to Drawing	n/a		Long	
G35	Ash, grey willow, blackthorn, elder	to 6	10-150	>10							Mature	Fair	Single stem ash with good form; shrubby blackthorn, elder and grey willow with crossing stems and branches and dense bramble understorey	C,2	Refer to Drawing	n/a		Medium	
G36	Sycamore, hawthorn, elder, grey willow; goat willow	5.0	10-150	>10							Middle Age	Fair	Multi-stemmed; shrubby boundary group; crossing stems and branches; ivy on trunks; one dead tree; bramble understorey; willow growing in ditch	C,2	Refer to Drawing	n/a		Long	
G37	Sycamore, ash. Elder	10.0	75-400	>10							Middle Age	Good	Third party boundary group; multi-stemmed; ivy on trunks; sycamore with young shoots at base; shrubby elder; crossing branches; moderate deadwood	B,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G38	Sycamore, hawthorn	4.0	100-350	>20							Middle Age	Fair	Dense group of multi-stemmed trees; dense ivy covered trunks; shrubby form; crossing stems or branches	C,2	Refer to Drawing	n/a		Long	
G39	Hawthorn, elder, blackthorn, ash, sycamore	9.0	75-300								Middle Age	Fair	Dense field boundary group of shrubby trees; multi-stemmed; crossing stems and branches; ivy on trunks; some leaning; canopies to ground; wide group; wildlife value	C,2	Refer to Drawing	n/a		Long	
G40	Sycamore	14.0	100-250	>5							Middle Age	Fair	Suppressed by T60; asymmetrical crowns; suckering at base; some ivy on trunks	C,2	Refer to Drawing	n/a		Long	
G41	Apple, sycamore	to 13	400-450	2.0							Middle Age	Fair	Poor condition apple; major decay in trunk; large wounds from failed branches with decay; good form sycamore with exposed roots; wound at base to north with peeling bark	C,2	Refer to Drawing	n/a		Medium	
G43	Ash, sycamore, elder, blackthorn, oak	to 5	75-100	>10							Young to Middle Age	Fair	Multi-stemmed; young shrubby form trees; crossing stems and branches	C,2	Refer to Drawing	n/a		Long	
G44	Ash, alder, sycamore, elder	to 12	100-400	>50							Middle Age to Mature	Good	Mature ash and alder in garden boundary group with elder understorey; alder has large wounds from failed branches; crossing branches; one large ash with previous reduction over road; multi-stemmed; good form	B,2	Refer to Drawing	n/a		Long	
G45	Wych elm, elder, sycamore, birch, hawthorn, cherry, oak	to 88	75-500	>100							Middle Age	Good	Dense group of trees; one dead; boundary field group; many multi-stemmed; some middle aged large trees in shrubby hawthorn and elder; minor deadwood	B,2	Refer to Drawing	n/a		Long	
G47	Sycamore, hawthorn, ash, oak, hawthorn, blackthorn, alder	to 10	100-400	>50							Middle Age	Fair	Large middle aged alder, ash and oak; field boundary group; shrubby hawthorn and blackthorn; ash has large wounds from failed branches; moderate deadwood	B,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G48	Apple	5.0	100-300	>10							Middle Age	Fair	Row of apple trees growing around boundary of garden; restricted access; minor bark wounds; crossing branches; moderate deadwood	B,2	Refer to Drawing	n/a		Medium	
G49	Blackthorn, hawthorn, goat willow, alder	7.0	75-150	>50							Middle Age	Fair	Part of field boundary group; spreading form goat willow; shrubby blackthorn and hawthorn; tall slender form alder	C,2	Refer to Drawing	n/a		Medium	
G50	Common ash, Common alder	11.0	100-500	2.0							Mature	Good	Dense ivy on trunks; roadside trees; minor bark wounds; crossing branches; bat potential	B,2	Refer to Drawing	n/a		Long	
G51	Common ash, Common alder	to 10	500-550	2.0							Mature	Poor	Large bark wounds from failed branches; both asymmetrical crowns; large decay in trunk on ash; suckering growth; holes in branches; bat potential	C,2	Refer to Drawing	n/a		Medium	
G52	Alder, sycamore, goat willow, hawthorn, willow, blackthorn, holly	to 10	75-200	>50							Middle Age	Fair	Growing around pond; many multi-stemmed; many growing in pond; bark wounds; goat willow split apart with spreading form; crossing branches	C,2	Refer to Drawing	n/a		Medium	
G53	English Oak, sycamore, English elm, common lime, common alder, hybrid black poplar, common ash, hawthorn, wild cherry	12.0	75-350	>500							Middle Age	Good	Dense roadside group of boundary trees; many multi-stemmed; crossing branches; tall slender form; overhanging into site by 4m; some dead trees; ivy on some trunks; screening value	A,2	Refer to Drawing	n/a		Long	
G54	Common alder, sycamore, oak, ash	12.0	300-700	>20							Mature	Good	Mature trees in linear boundary feature; some with holes in trunks; moderate deadwood; wounds from failed branches; one ash to eastern end with dead in top canopy; bat potential	B,2	Refer to Drawing	n/a		Long	
G55	English oak	12.0	600-770	2.0							Mature	Good	One to east with hole in trunk; moderate deadwood; wounds from failed branches; spreading form; large canopies; crossing branches; bat potential	A,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G56	Ash, sycamore, alder	12.0	300-700	>20							Mature	Good	Restricted access; mature trees in linear boundary feature; ivy on the trunks of some; moderate deadwood.	B,2	Refer to Drawing	n/a		Long	
G57	Common ash, common alder	to 10	100-550	3.0							Mature	Fair	Holes and cavities in all trees; one with bulging trunk and base; crossing branches; moderate deadwood; wounds from failed branches; barbed wire embedded into trunk; northern most ash with large cavity from base to 4m on north-west side; alders have poor form; holes in trunks and one with partial stem decaying; major deadwood	C,2	Refer to Drawing	n/a		Long	
G58	Common ash, hawthorn; sycamore; oak; common alder	12.0	75-600	>50							Middle Age to Mature	Good	Field boundary group of mature trees and low growing shrubby hawthorn; poor condition ash to western end; good form oak; oak and sycamore to eastern boundary with split and crevices; some suppressed; wounds from failed branches; bat potential	B,2	Refer to Drawing	n/a		Long	
G59	Leyland cypress, hawthorn, pine, elm, cherry	8.0	75-200	>20							Middle Age	Good	Ornamental garden boundary trees; cypress growing as hedge; many shrubs at base; good form pine	B,2	Refer to Drawing	n/a		Long	
G60	Silver birch, willow, alder, rowan, hawthorn, cypress, grey willow, cotoneaster;	10.0	75-300	>30							Middle Age	Good	Tall slender form; alder and birch; some dead blackthorn, dense group; minor deadwood; crossing branches; many multi-stemmed; garden boundary group	C,2	Refer to Drawing	n/a		Long	
G61	Common ash, common alder	to 10	300-690	2.0							Mature	Fair	Poor alder; almost dead; large amount of decay to north and cavity to north east; exposed roots; moderate deadwood; decay on branch ends; bat potential	C,2	Refer to Drawing	n/a		Medium	
G62	Common ash, hawthorn	5.0	100-200	>5							Middle Age	Fair	Hawthorn hedge with gaps and middle aged multi-stemmed ash; bark wounds on lower stems from cattle	C,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G63	Common alder, oak	11.0	200-500	4.0							Middle Age to Mature	Good	Alder with large broken branch to south; hanging to ground; dense ivy on alders and one oak; two large trees in middle with smaller trees each side; growing in H35	B,2	Refer to Drawing	n/a		Long	
G64	Common ash, Common alder	10.0	400-600	9.0							Middle Age to Mature	Good	Some multi-stemmed; ivy on trunks; mature ash in linear field boundary group; two smaller ash to southern end; ash with crossing branches and good form	B,2	Refer to Drawing	n/a		Long	
G65	Common ash, hawthorn, common alder, cherry	10.0	500-550	>10							Middle Age to Mature	Fair	Dense ivy covered trunks on ash and alder; hawthorn shrubby form; some fallen hawthorn; large cavity on one alder from base to 4m; moderate deadwood	B,2	Refer to Drawing	n/a		Long	
G67	Alder, ash	10.0	500-600	2.0							Middle Age	Fair	Dense ivy on trunk and into canopy; growing in H37; ash with asymmetrical crown; moderate deadwood; bat potential	B,2	Refer to Drawing	n/a		Long	
G68	Blackthorn, apple, copper beech, whitebeam, silver birch, hawthorn, sycamore, fir	6.0	75-250	>20							Middle Age	Good	Ornamental garden trees; behind wooden fence; dense canopy	B,2	Refer to Drawing	n/a		Long	
G69	Hawthorn, ash, sycamore	to 8	75-150	>20							Middle Age	Fair	Tall slender form sycamore and ash; multi-stemmed shrubby hawthorn	C,2	Refer to Drawing	n/a		Long	
G70	Hawthorn, elder, rowan	to 7	75-100	>50							Middle Age	Fair	Tall slender form; dense group; multi-stemmed; crossing stems and branches	B,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G72	Common ash, sycamore, oak, cypress, hawthorn	to 12	75-700	>20							Middle Age to Mature	Good	Restricted access; boundary group; mature trees with various spacing within hawthorn hedge	B,2	Refer to Drawing	n/a		Long	
G75	Hawthorn, alder, sycamore	to 10	75-600	>50							Middle Age to Mature	Good	Restricted access; surveyed from road; dense boundary group; many multi-stemmed mature hawthorn	B,2	Refer to Drawing	n/a		Long	
G76	Beech, weeping willow	to 12	300-400	2.0							Middle Age	Good	In garden of property, low branches on trunk of beech, tight unions, slightly suppressed by willow, willow slightly suppressed by G77	B,2	Refer to Drawing	n/a		Long	
G77	Leyland cypress	to 13	100-300	>20							Mature	Good	Row of cypress as boundary feature to garden; screening value; good form; dense canopies	B,2	Refer to Drawing	n/a		Long	
G78	Sycamore, ash	to 12	75-400	>20							Middle Age	Good	Roadside trees; dense ivy on trunks; crossing branches; moderate deadwood; reduced over road; bat potential	B,2	Refer to Drawing	n/a		Long	
G79	Blackthorn, ash, hawthorn, alder, sycamore	to 11	75-400	>20							Middle Age	Good	Roadside group; dense ivy on alder; sycamore trifurcate at base; good form; multi-stemmed hawthorn and blackthorn	B,2	Refer to Drawing	n/a		Long	
G80	Sycamore, alder, hawthorn, elder	to 10	100-400	>10							Middle Age	Good	Roadside group; dense ivy on trunks and into canopy; moderate deadwood; bifurcate sycamore; shrubby hawthorn and elder	B,2	Refer to Drawing	n/a		Long	
G81	Alder, ash, oak, sycamore, hawthorn	to 10	100-500	>20							Middle Age to Mature	Good	Dense boundary group; restricted access, surveyed from road; shrubby hawthorn	B,2	Refer to Drawing	n/a		Long	
G82	Alder, elder, ash, sycamore	10.0	100-400	>10							Middle Age	Good	Roadside group; dense ivy on alder; sycamore trifurcate at base; good form; multi-stemmed hawthorn and blackthorn	B,2	Refer to Drawing	n/a		Long	
G83	Ash, sycamore, oak, alder, hawthorn	to 10	100-500	>10							Middle Age	Good	Restricted access; ivy on trunks; growing in hawthorn hedge	B,2	Refer to Drawing	n/a		Long	
G84	hawthorn	to 6	75-200	>10							Middle Age	Good	Overgrown hedge; many multi-stemmed; dense canopies	C,2	Refer to Drawing	n/a		Medium	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G85	Hawthorn, alder	to 8	100-200	>5							Middle Age	Good	Multi-stemmed; crossing stems and branches; dense canopies; good form	B,2	Refer to Drawing	n/a		Long	
G86	Cypress, cherry, ash, alder	to 10	100-400	>20							Middle Age to Mature	Good	Garden boundary trees; dense crowns; screening value	B,2	Refer to Drawing	n/a		Long	
G87	Sycamore, ash	9.0	400-500	2.0							Middle Age	Fair	One sycamore and one ash; many wounds from failed branches; reduced branches; large cavities in trunk of ash with hollow trunk; large bark wounds on sycamore; holes and crevices; moderate deadwood; bat potential	C,2	Refer to Drawing	n/a		Long	
G88	Hawthorn, ash, alder	to 8	75-150	>20							Middle Age	Fair	Shrubby hawthorn; self set young ash; tall slender form alder	C,2	Refer to Drawing	n/a		Medium	
G89	Alder, hawthorn	to 8	75-300	3.0							Middle Age	Fair	Bark wounds; dense ivy; broken branches; one alder with stem lean west	C,2	Refer to Drawing	n/a		Medium	
G90	Sycamore, hawthorn	to 7	75-150	>50							Middle Age	Good	Shrubby hawthorn; tall slender form self set sycamore	B,2	Refer to Drawing	n/a		Long	
G91	Hawthorn, privet, ash	to 8	75-100	>50							Young to Middle Age	Fair	Multi-stemmed; young tall slender form ash; bark wounds; overgrown privet and hawthorn hedge; screening for property	C,1	Refer to Drawing	n/a		Long	
G92	Leyland cypress	4.0	100-150	>10							Middle Age	Good	Garden boundary feature; topped at 4m; dense canopy	B,2	Refer to Drawing	n/a		Long	
G93	Sycamore, alder, grey willow, hawthorn	to 10	75-500	>100							Middle Age	Good	Dense boundary trees; half dead ash central to group; good form	B,2	Refer to Drawing	n/a		Long	
G94	White willow	5.0	700-800	>5							Mature	Poor	Two willows both with main stem failed; large wounds with extensive decay; splits and crevices; habitat value; bat potential	C,2	Refer to Drawing	n/a		Medium	
G95	Goat willow, hawthorn, sycamore	to 4	75-100	>10							Middle Age	Fair	Multi-stemmed; growing along hedge line; spreading form hawthorn and goat willow; self set ash	C,2	Refer to Drawing	n/a		Long	
G96	Common alder, hawthorn, English oak, common ash	to 10	100-500	>50							Middle Age to Mature	Good	Restricted access to survey; dense group; mature oak and ash; shrubby hawthorn	B,2	Refer to Drawing	n/a		Long	
G97	Common ash, horse chestnut, hawthorn	to 9	75-350	>20							Young to Middle Age	Fair	Garden boundary group of trees; shrubby hawthorn; some middle aged ash with ivy on trunks; some young self set ash	C,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G98	Common alder, hawthorn	7.0	200-300	4.0							Middle Age	Fair	Two alder and two outgrown hawthorn from hedge; ivy on trunks; slightly suppressed; wounds from broken branches; tall slender form	C,2	Refer to Drawing	n/a		Long	
G99	English oak	to 9	400-500	3.0							Middle Age	Good	Three oaks in row; good form; restricted access; surveyed from road; minor deadwood; low growing canopies	A,1,2	Refer to Drawing	n/a		Long	
G100	English oak, Common ash, Common alder, hawthorn	to 7	100-300	>10							Middle Age	Good	Shrubby hawthorn; dense group of trees; good form oak; tall slender form ash and alder	B,2	Refer to Drawing	n/a		Long	
G101	Plum, holly, fir	to 10	100-300	>5							Middle Age	Good	Garden boundary group of ornamental trees; dense group; crossing branches	B,2	Refer to Drawing	n/a		Long	
G107	English oak, common alder	9.0	300-450	2.0							Middle Age	Good	Alder suppressed to west by oak; oak biased crown west; barbed wire in trunks; moderate deadwood in oak; large deadwood in alder; crossing branches	B,2	Refer to Drawing	n/a		Long	
G108	Common ash	to 10	300-350	2.0							Middle Age	Fair	Restricted access to survey; moderate deadwood; crossing branches; bark wounds	B,2	Refer to Drawing	n/a		Long	
G109	English oak, hawthorn	to 12	100-400	>20							Middle Age	Good	Growing on sloped verge toward railway line to east; some multi-stemmed; moderate deadwood; crossing branches; good form	A,1,2	Refer to Drawing	n/a		Long	
G111	Common ash, hawthorn	to 7	75-100	>5							Mature	Fair	Outgrown hawthorn hedge with tall slender form ash; crossing branches	C,1	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G113	Common ash, willow, goat willow, hawthorn	to 10	75-400	>50							Middle Age	Fair	Dense spreading form; many multi-stemmed; tall slender form ash and willow	B,2	Refer to Drawing	n/a		Long	
G115	Grey willow, hawthorn	to 6	75-150	>20							Middle Age	Good	Growing to west of small pond; multi-stemmed; bark wounds; split branch; crossing stems and branches	C,2	Refer to Drawing	n/a		Medium	
G116	Common ash	9.0	75-150	>5							Young to Middle Age	Good	Growing in hedge; self set; bark wounds; tall slender form	C,2	Refer to Drawing	n/a		Long	
G118	Common alder	8.0	100-300	4.0							Middle Age	Fair	Growing in hedge; dense ivy on one; 3 with tall slender form	C,2	Refer to Drawing	n/a		Medium	
G119	Hawthorn, blackthorn, English oak, grey willow, elder, holly	to 8	100-300	>50							Middle Age	Good	Dense group of boundary trees; many ,multi-stemmed; many with tall slender form; crossing branches; bark wounds; growing on south side of ditch	B,2	Refer to Drawing	n/a		Long	
G120	Hawthorn, common ash, apple	to 6	75-150	>20							Middle Age	Fair	Tall slender form ash; poor form shrubby hawthorn and apple; gaps in group	C,2	Refer to Drawing	n/a		Long	
G121	Hawthorn	to 5	75-100	>10							Middle Age	Fair	Dense shrubby outgrown hedge	C,2	Refer to Drawing	n/a		Medium	
G122	Common ash, common alder	to 10	350-600	2.0							Middle Age to Mature	Good	Ivy on stems; minor deadwood; alder slightly suppressed by ash	B,2	Refer to Drawing	n/a		Long	
G123	Apple	to 7	200-300	<5							Middle Age	Good	Growing in garden; ivy on trunks; crossing branches	B,2	Refer to Drawing	n/a		Medium	
G124	Leyland cypress	to 14	100-200	>20							Middle Age	Good	Dense row of cypress; screening value; good form	B,2	Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
G154	Sycamore, hawthorn	to 14	100-650	>5							Middle Age	Good	One single stemmed sycamore one bifurcate at 2m; good form; shrubby hawthorn	B,1,2	Refer to Drawing	n/a		Long	
G155	Hazel, sycamore, hawthorn, elder, silver birch, holly, common ash, common beech	to 14	100-600	>20							Middle Age	Good	Tall slender form birch and sycamore; shrubby hawthorn and elder; ivy on trunks; dense group	B,2	Refer to Drawing	n/a		Long	
G156	Sycamore, common ash, blackthorn	to 12	100-300	>10							Middle Age	Good	Roadside trees; tall slender form; ivy covered trunks; shrubby blackthorn	B,2	Refer to Drawing	n/a		Long	
G159	Lawson cypress	up to 12	up to 350	10+							Middle Age	Good	Typical forms, dense screen	C,2	Refer to Drawing	n/a		Long	
G160	Common ash	up to 9	up to 380	2 trees							Middle Age	Fair	Pair of trees within H95, broken branches and stubs, minor dead wood in crowns, some dieback, eastern tree twin-stemmed, occasional branch socket cavities, next to road	C,2	Refer to Drawing	n/a		Medium	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
Hedges																			
H3	Hawthorn, holly, elm	5.0	0								Middle Age	Fair	Unmanaged hawthorn hedgerow on roadside with multi-stemmed elm and shrubby holly		Refer to Drawing	n/a		Long	
H4	Cypress	3.0	0								Middle Age	Good	Row of boundary trees topped at 3m		Refer to Drawing	n/a		Long	
H11	Ash, hawthorn	3.0	0								Middle Age	Good	Multi-stemmed; self set ash; boundary hedge		Refer to Drawing	n/a		Long	
H12	Hawthorn	1.0	0								Middle Age	Good	Well maintained hedge; width 1m		Refer to Drawing	n/a		Long	
H15	Sycamore, hawthorn; ash	2.0	0								Middle Age	Good	Well maintained hawthorn hedge with tall multi-stemmed old pollarded ash and sycamore;		Refer to Drawing	n/a		Long	
H16	Hawthorn, ash	6.0	0								Middle Age	Poor	lapsed field boundary hedgerow; poorly maintained		Refer to Drawing	n/a		Long	
H17	Privet, bramble	3.0	0								Middle Age	Fair	Shrubby hedgerow		Refer to Drawing	n/a		Long	
H18	Cypress	5.0	0								Middle Age	Fair	Garden boundary hedge; width 2m		Refer to Drawing	n/a		Long	
H19	Hawthorn	3.0	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H20	Hawthorn, goat willow, sycamore	3.0	0								Middle Age	Fair	Majority unmanaged hawthorn with mature goat willow on southern border with DBH of 300 and small sycamore on northern side		Refer to Drawing	n/a		Long	
H21	Hawthorn, elder	3.5	0								Middle Age	Good	Well maintained to 2m; except one overgrown tree around telephone pole		Refer to Drawing	n/a		Long	
H22	Hawthorn	2.0	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A, B, C, U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
H25	Hawthorn	1.5	0								Middle Age	Fair	Boundary field hedge; majority topped at 1.5m; few left to grow		Refer to Drawing	n/a		Long	
H26	Blackthorn	5.0	0								Middle Age	Fair	Overgrown hedge to 5m; shrubby multi-stemmed		Refer to Drawing	n/a		Long	
H27	Hawthorn	5.0	0								Middle Age	Fair	Unmanaged hedge, shrubby form		Refer to Drawing	n/a		Long	
H28	Hawthorn	4.0	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Long	
H29	Hawthorn	3.0	0								Middle Age	Good	Broken hedge with up to approx. 8m gaps in places		Refer to Drawing	n/a		Long	
H30	Hawthorn	3.0	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Long	
H31	Hawthorn	5.0	0								Middle Age	Fair	Unmanaged hedge, shrubby form		Refer to Drawing	n/a		Long	
H32	Hawthorn, blackthorn	3.0	0								Middle Age	Fair	Field boundary hedge		Refer to Drawing	n/a		Long	
H33	Hawthorn, blackthorn	3.0	0								Middle Age	Fair	Unmanaged shrubby form		Refer to Drawing	n/a		Long	
H34	Blackthorn	1.0	0								Middle Age	Fair	Unmanaged shrubby form		Refer to Drawing	n/a		Long	
H35	Hawthorn, blackthorn	5.0	0								Middle Age	Fair	Unmanaged field boundary hedge		Refer to Drawing	n/a		Long	
H36	Hawthorn, blackthorn	5.0	0								Middle Age	Fair	Unmanaged		Refer to Drawing	n/a		Long	
H37	Hawthorn	1.0	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H38	Blackthorn, hawthorn, alder	0.5	0								Middle Age	Good	Maintained hawthorn to north side; unmanaged blackthorn and hawthorn to south side		Refer to Drawing	n/a		Long	
H39	Hawthorn	1.0	0								Middle Age	Good	Maintained at 1m on west side of ditch		Refer to Drawing	n/a		Long	
H40	Hawthorn	1.0	0								Middle Age	Good	Maintained at 1m		Refer to Drawing	n/a		Long	
H41	Hawthorn	2.0	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H42	Privet	2.0	0								Middle Age	Good	Restricted access; well maintained		Refer to Drawing	n/a		Long	
H43	Leyland cypress	3.0	0								Middle Age	Poor	Topped at 3m		Refer to Drawing	n/a		Long	
H44	Hawthorn, holly	1.0	0								Middle Age	Good	Well maintained; along ditch		Refer to Drawing	n/a		Long	
H45	Leyland cypress	4.0	0								Middle Age	Good	Garden boundary hedge; good screening		Refer to Drawing	n/a		Long	
H46	Privet	2.0	0								Middle Age	Good	Maintained garden hedge		Refer to Drawing	n/a		Long	
H47	Hawthorn, sycamore	3.0	0								Middle Age	Good	Maintained hedge to 3m with young self set sycamore		Refer to Drawing	n/a		Long	
H48	Hawthorn	4.0	0								Middle Age	Good	Well maintained garden boundary hedge		Refer to Drawing	n/a		Long	

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		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
H53	Hawthorn	2.0	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H54	Hawthorn	0.5	0								Middle Age	Fair	Maintained field boundary hedge; one tree outgrown from hedge around telegraph pole		Refer to Drawing	n/a		Long	
H56	Hawthorn, ivy	2.0	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H57	Hawthorn	0.5	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Long	
H58	Hawthorn	2.0	0								Middle Age	Good	Field boundary hedge; maintained to 2m		Refer to Drawing	n/a		Long	
H59	Hawthorn	2.5	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H60	Hawthorn	6.0	0								Middle Age	Fair	Overgrown hawthorn hedge; previously topped at 2m		Refer to Drawing	n/a		Long	
H61	Hawthorn	1.0	0								Middle Age	Good	Well maintained field boundary hedge		Refer to Drawing	n/a		Long	
H62	Hawthorn	4.0	0								Middle Age	Fair	Overgrown hawthorn hedge		Refer to Drawing	n/a		Long	
H63	Hawthorn, blackthorn	1.0	0								Middle Age	Good	Roadside hedge; maintained at 1.5m; shrubby blackthorn in field to north		Refer to Drawing	n/a		Long	
H64	Privet	1.5	0								Middle Age	Good	Garden boundary hedge		Refer to Drawing	n/a		Long	
H65	Hawthorn, blackthorn	3.0	0								Middle Age	Fair	Unmanaged		Refer to Drawing	n/a		Long	
H66	Hawthorn, willow, ash	to 3	0								Middle Age	Fair	Poor form with large gaps; young willow and self set ash		Refer to Drawing	n/a		Long	
H67	Hawthorn	to 4	0								Middle Age	Fair	Roadside hedge		Refer to Drawing	n/a		Long	
H70	Privet	1.5	0								Middle Age	Good	Well maintained garden boundary hedge		Refer to Drawing	n/a		Long	
H71	Privet, hawthorn, elder, sycamore	2.0	0								Middle Age	Good	Maintained at 2m; 2m wide		Refer to Drawing	n/a		Long	
H72	Blackthorn, hawthorn, sycamore	2.0	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Long	

APPENDIX A: Arboricultural Survey Data Sheets

Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A, B, C, U (1,2,3)	(m)	(m ²)		Long, Medium, Short	Y/N
H74	Hawthorn	1.5	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Medium	
H75	Hawthorn, elder	1.5	0								Middle Age	Fair	Field boundary hedge		Refer to Drawing	n/a		Long	
H78	Hawthorn, ash	2.0	0								Middle Age	Poor	Some outgrown; small shrubby unmanaged; large gaps, self set ash		Refer to Drawing	n/a		Long	
H79	Privet	3.0	0								Middle Age	Good	Garden boundary hedge		Refer to Drawing	n/a		Long	
H81	Hawthorn	1.5	0								Middle Age	Good	Maintained at 1.5m		Refer to Drawing	n/a		Long	
H82	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedgerow		Refer to Drawing	n/a		Long	
H83	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedgerow		Refer to Drawing	n/a		Long	
H84	Hawthorn	1.0	0								Middle Age	Good	Topped at 1m		Refer to Drawing	n/a		Long	
H85	Hawthorn	1.0	0								Middle Age	Fair	Topped at 1m		Refer to Drawing	n/a		Long	
H86	Hawthorn	2.0	0								Middle Age	Fair	Shrubby outgrown hedge		Refer to Drawing	n/a		Long	
H87	Hawthorn	4.0	0								Middle Age	Fair	Shrubby outgrown hedge		Refer to Drawing	n/a		Long	
H88	Hawthorn, blackthorn	4.0	0								Middle Age	Fair	Shrubby outgrown hedge		Refer to Drawing	n/a		Long	
H90	Hawthorn	3.0	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Long	
H92	Hawthorn	3.0	0								Middle Age	Fair	Multi-stemmed shrubby unmanaged hedge		Refer to Drawing	n/a		Medium	
H93	Hawthorn	3.0	0								Middle Age	Fair	Previously topped at 0.5m now outgrown		Refer to Drawing	n/a		Long	
H94	Hawthorn	2.0	0								Middle Age	Fair	Multi-stemmed; gaps		Refer to Drawing	n/a		Long	
H95	Hawthorn	1.5	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H96	Hawthorn	2.5	0								Middle Age	Fair	Shrubby form; dense		Refer to Drawing	n/a		Long	
H97	Hawthorn	2.5	0								Middle Age	Fair	Shrubby form; gaps		Refer to Drawing	n/a		Long	
H98	Hawthorn	1.5	0								Middle Age	Good	Well maintained		Refer to Drawing	n/a		Long	
H99	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge; few gaps		Refer to Drawing	n/a		Long	
H100	Hawthorn, elder	2.0	0								Middle Age	Good	Topped at 2m		Refer to Drawing	n/a		Long	
H101	Hawthorn, blackthorn	3.0	0								Middle Age	Fair	Unmanaged		Refer to Drawing	n/a		Long	
H102	Blackthorn, hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge		Refer to Drawing	n/a		Long	
H103	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge		Refer to Drawing	n/a		Long	
H104	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge		Refer to Drawing	n/a		Long	
H105	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge		Refer to Drawing	n/a		Long	
H106	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge		Refer to Drawing	n/a		Long	

APPENDIX A: Arboricultural Survey Data Sheets

Ref	Species	Height	Stem Dia.	No. of stems/ individuals	Crown Spread North	Crown Spread South	Crown Spread East	Crown Spread West	Height of Lowest Branch	Direction of Lowest Branch	Maturity	Condition	Comments on form, condition, health and significant defects	BS5837 Tree Quality Assess.	Radius of RPA guide circle	BS5837 RPA Area	Management Recommendations	Estimated Remaining Contribution	TPO
		(m)	(mm)	arising below 1.5m	(m)	(m)	(m)	(m)	(m)		Young, Middle Age, Mature	Good, Fair, Poor, Veteran		A,B,C,U (1,2,3)	(m)	(m2)		Long, Medium, Short	Y/N
H111	Hawthorn	3.0	0								Middle Age	Fair	Shrubby unmanaged hedge		Refer to Drawing	n/a		Long	
H112	hawthorn	2.5	0								Middle Age	Fair	Boundary hedge		Refer to Drawing	n/a		Long	
H114	Hawthorn	to 4	0								Middle Age	Fair	Unmanaged shrubby field boundary hedge		Refer to Drawing	n/a		Long	
H115	Hawthorn	to 3	0								Middle Age	Fair	Unmanaged field boundary hedge		Refer to Drawing	n/a		Long	
H127	Hawthorn	to 5	0								Middle Age	Good	Field boundary hedge		Refer to Drawing	n/a		Long	
H131	Common beech, hawthorn	to 3	0								Middle Age	Good	Well maintained garden boundary hedge		Refer to Drawing	n/a		Long	
H132	Common beech	to 3	0								Middle Age	Good	Well maintained hedge		Refer to Drawing	n/a		Long	

APPENDIX B: Survey Method

APPENDIX B: Survey Method

The survey of trees is conducted from ground level only. The nature of the soils on site is not assessed.

Trees are dynamic living organisms with a constantly changing structure; even trees in good condition can suffer from damage or stress. The information recorded is presented as being correct at the time of survey.

The following features of each tree, group of trees or wood may have been recorded in the Arboricultural Survey Data Sheets at Appendix 1.

Species	The common name is given. The Latin name may also be given if further clarification is required.	
Height	Top height of tree recorded in metres.	
Stem Diameter	For single-stemmed trees the measurement is taken at 1.5 metres above ground level and recorded in millimetres. For multi-stemmed trees an average all stems measured at 1.5m above ground level is used. For tree groups a range from minimum to maximum diameters is provided based on measurements taken using one of the aforementioned methods.	
No. of Stems	A count of stems arising below a height of 1.5 metres.	
Crown Spread	The N, S, E and W branch spreads are recorded in metres to provide a representative crown shape.	
Height of Lowest Branch	Crown clearance above ground level recorded in metres.	
Direction of Lowest Branch	The direction of growth of the first significant branch from the point of attachment.	
Maturity	Young	Trees that can reasonably be relocated or replaced like for like, without undue cost;
	Middle Age	Trees in the established growth stage of their life with the potential to continue increasing in size;
	Mature	Trees that have reached their ultimate size, given their location and surroundings;
Condition	Good, Fair, Poor. An overall assessment of a tree's physiological and structural state in which factors that may increase its susceptibility to the effects of development are taken into account. Veteran. Trees that are in such a condition as to significantly increase their biological, cultural or aesthetic value. This is characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species concerned.	
Comments	A brief evaluation and description of the tree with comments on form, vitality, health and any significant defects or symptoms of ill-health.	

BS 5837 Tree Quality Assessment

The tree quality assessment is based on Table 1 of BS 5837:2012 (See below). Four categories (A, B, C and U) are used to denote tree quality (A= High, B = Moderate, C = Low, U= Unsuitable for retention). Subcategories (1-3) denote the specific function value of the trees and the reasoning behind the allocation of a specific category (the subcategories may be used in combination but do not accumulate collective weight).

Root Protection Area (RPA)

The RPA is allocated to ensure that a sufficient area is left undisturbed during development. It is provided as an area (m²) and as the radius of a circle (m) typically plotted from the centre of the stem.

The RPA is calculated using a mathematical equation included in BS 5837:2012 (Section 4.6 and Table D.1) and is based on a tree's stem diameter. In some cases the RPA may need to be adapted to best reflect the likely area and position of roots required to ensure survival; this may be based on criteria such as the tree's condition, species, crown spread and any barriers to growth. Any alteration must be justifiable but is made at the Arboricultural Consultants discretion.

Recommendations

Recommendations for arboricultural works, etc. are based on the **current** land use, and take into account the tree or group attributes without bias to the proposed development.

Estimated Remaining Contribution

An estimation of the life expectancy as healthy functioning tree. This will be influenced by species and the condition of the tree at the time of survey.

Long	> 40 years
Medium	20 – 40 years
Short	less than 20 years

APPENDIX B: Survey Method

Table 1 Cascade chart for tree quality assessment

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

British Standards Institute (2012) BS5837:2012 Trees in relation to design, demolition and construction – Recommendations.
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NOTES:

All young trees are assessed as quality category 'C' but this does not preclude their retention within a development.

For hedges the height, canopy spread and number of stems is recorded but they are not assigned a quality category.

Drawing

D6900.03.001-005 - Tree Constraints Plans



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