

**Lee Lane
Barnsley**

Strategic Land Goup Ltd

TREE SURVEY REPORT



tba

landscape architects

**Landscape Architecture
Arboriculture**

1st floor, Building 2
The Wharf Business Centre
Lower Wharf Street
Ashton-under-Lyne
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1.0 INTRODUCTION

1.1 This site consists of a large area of agricultural land off Lee Lane, Royston, Barnsley. The tree cover is typical of this type of site concentrated along field boundaries. The trees within the site are generally moderate value hedge line trees. A full schedule containing the tree details are included in a schedule in Section 10.0.



1.2 This report is to act as an aid to layout by identifying the better trees, specifying protective measures and also any work that might be necessary to maintain the trees in an improved or safer condition.

1.3 This survey complies with British Standard 5837:2012 Trees in relation to design, demolition and construction– Recommendations. All significant trees or groups within the site have been inspected, identified and detailed. An assessment of condition is included and any work considered necessary to put the trees into a safer or improved condition. Also recorded is the minimum recommended area of protection for each tree, within which no activity should take place (this is generally the position for protective fencing to be erected before development starts).

1.4 Site visit 27th July 2012. Surveyor: Dan Farnworth Bsc (Hons) Arboriculture. Weather conditions: Clear.

1.5 Limitations.

- 1) Due to the changing nature of trees – and possibly other site circumstances – this report and recommendations are limited to a two year period. Similarly, this report could be invalidated if any alterations are made to the property that could change the conditions as seen at time of inspection.
- 2) Under certain circumstances, roots can affect foundations, drains and other underground services. These issues have not been addressed by this report.
- 3) Trees are dynamic structures that can never be guaranteed 100% safe; even those in good condition can suffer occasional damage under only average weather conditions. A lack of recommended work does not imply that a tree will never suffer damage.

2.0 METHOD

2.1 Site. The survey was carried out from ground level and without the use of special diagnostic equipment (unless otherwise stated). Lower-grade material may be treated as numbered groups, for example where in rows or dense groupings.

Schedule. The following information is given in the schedule, to BS5837:

- Number.
- Tree Name. Species (common and Latin).
- Height (metres).
- DBH 1.5m (millimetres).
- Crown spread N E S W (metres).
- Crown clearance (height of lower branches above ground) (metres).
 - Age class (**Y**oung, **E**arly-**M**ature, **S**emi-**M**ature, **M**ature, **O**ver-**M**ature, **V**eteran).
- Physiological condition (**G**ood, **F**air, **P**oor, **D**ead). An assessment of vitality (leaf or bud size/colour/density, annual extension growth, lack of die-back etc).
- Structural condition (**G**ood, **F**air, **P**oor, **D**amaged)
- Estimated remaining contribution (years, 0-10 10-20 20-40 40+).
- Category grading:

U = Remove (irremediable or with less than 10 years contribution).

A = High quality and value, preferably with min. 40 years contribution.

B = Moderate quality and value.

C = Low quality and value. Also young trees with stem diameter below 150mm (these may be considered for relocation).

Subcategory:

1 = mainly arboricultural merit.

2 = mainly landscape merit.

3 = mainly cultural or conservation merit.

- Root Protection Area from BS 5837: 2012 (area in square metres and as a radius in metres). This is the basis of the Root Protection Area marked as a circle on the Tree Constraints Plan (may have been modified in light of site circumstances). This is generally the minimum position for protective fencing.
- Comments and recommendations.

3.0 TREES AND CONSTRUCTION: OVERVIEW

3.1 Tree rooting is widely misunderstood and it is a surprising fact that, typically, about 80% of roots will be found in the upper half metre of soil and often extending well beyond the canopy spread. The threat to the trees by development comes from (a) root severance or fracture (b) compaction of the soil, preventing gaseous exchange and moisture percolation (c) possible change to moisture gradients due to surface water run-off or interception as well as (d) physical damage to low branches and trunk.

The consequences for the tree of such damage are (i) instability, if severe enough, (ii) entry points for pathogenic fungi at wounds / fractures (iii) loss of vitality due to reduced oxygen, mineral and moisture take-up; all leading to (iv) root death and (v) a general decline or possible death of the tree.

4.0 PROTECTION OF RETAINED TREES

4.1 Protection is afforded to the tree by defining a Root Protection Area (RPA) within which no development activity should take place. The size of the RPA is defined in the British Standard and relates to trunk diameter. The RPA is normally the minimum position for protective fencing.

4.2 Where considered appropriate by the arboriculturalist, and for individual open grown trees only, BS 5837 allows for a displacement of the Root Protection Area by up to 20%. The area may also vary from an exact circle, to allow for specific site conditions.

4.3 Where the LPA agrees to activity taking place within the RPA then it is likely that special measures will be required, such as a 'no dig' construction method for drives.

4.4 To give the best chance of continued good health of the retained trees, it will be essential to prevent root severance or compaction of the soil in the Root Protection Area. To achieve this, a stout fence should be erected at the position shown on the plan (or if this is not indicated, at the limit of the Root Protection Area). This should be done before any site materials or machinery are brought onto site, and should comprise a scaffold frame with steel mesh panels securely attached (eg Heras). Mesh is preferred to boarding as it can be seen through and should be re-useable. Use of rubber or concrete feet instead of a frame is not acceptable as these can easily be moved. Once in place, the fence must be regarded as sacrosanct with no storage of materials/spoil or access by machinery within the protected area.

4.5 All weather notices should be fixed to the barrier reading "Root Protection Area – No Access".

4.6 Where temporary access within the Root Protection Area is agreed, the fence may need to be re-aligned and the ground surface protected. For vehicular access this protection will need to be specifically detailed and agreed.

4.7 Site operations such as deliveries, site machines, crane jibs etc should be organised to avoid damaging the trunk or crown of trees. Where this conflict is unavoidable then facilitation pruning should be carried out in advance, rather than after damage has occurred. This may be required to allow demolition operations.

4.8 Material which could contaminate the soil eg concrete mixing, fuel, vehicle washings etc should not be discharged within 10m of the stem of any tree, and not on ground beyond sloping down to the tree.

4.9 Fires should either not be permitted, or else not lit where flames could extend to within 5m of the foliage, branches or trunk.

4.10 No notice boards, cables, nails or other items should be attached to any part of the tree.

5.0 ARBORICULTURAL METHODS

- 5.1 The arboricultural consultant (or local authority Tree Officer) should be consulted whenever an unexpected issue occurs that involves any tree on site including access within the Protection Area.
- 5.2 All tree work should be carried out to the highest standards, based on British Standard 3998:2010 'Recommendations for Tree Work' and current best practice.
- 5.3 To ensure standards are met it is recommended that a contractor from the Approved List of the Arboricultural Association be used (01794 368717 www.trees.org.uk).
- 5.4 It is recommended that when the final layout is agreed with the LPA, a final Arboricultural Method Statement and Tree Protection Plan be drawn up. This will bring together many of the items above in a simpler document.

6.0 WILDLIFE ISSUES AND TIMING OF OPERATIONS

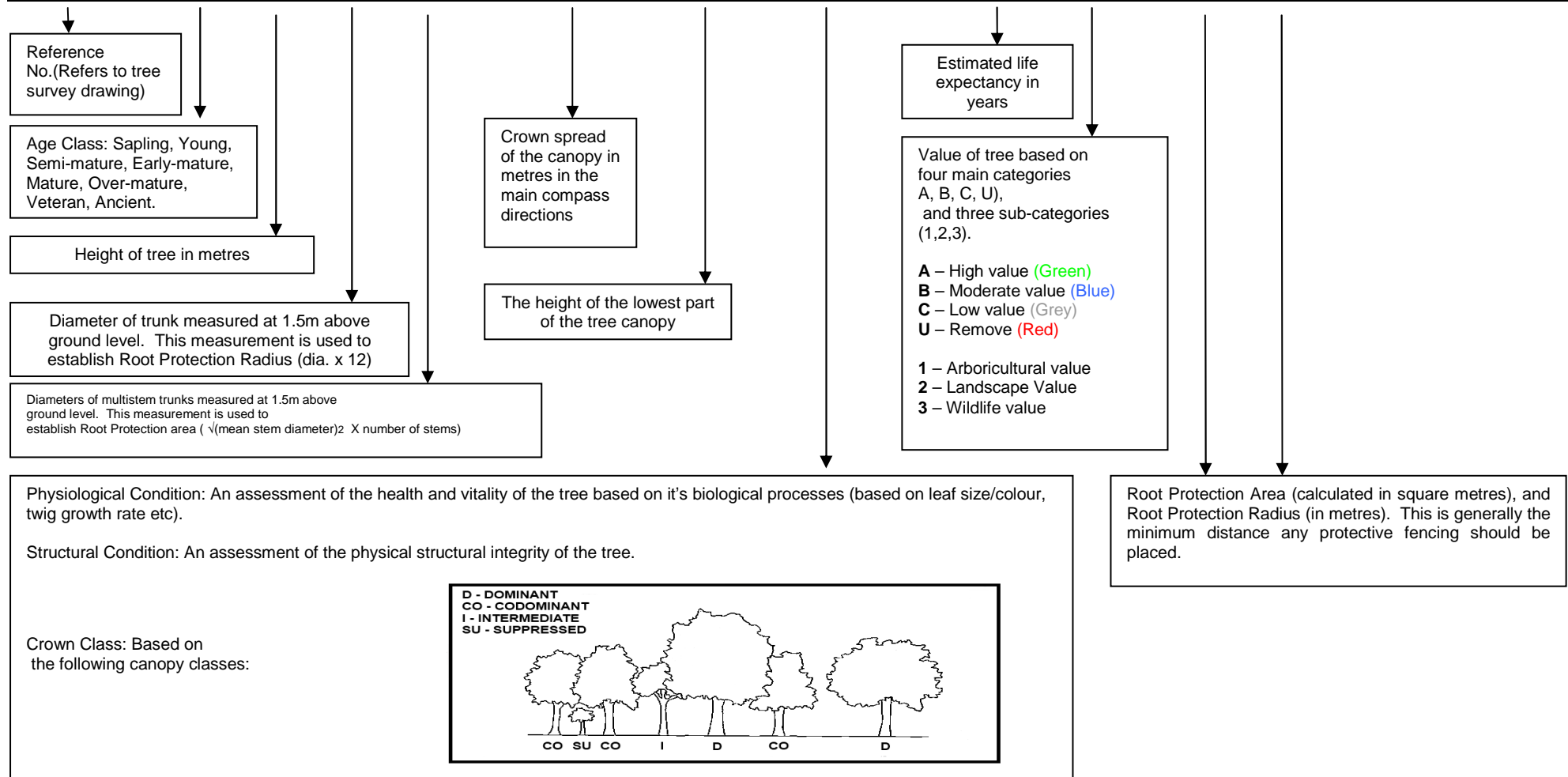
- 6.1 Bats. Under current legislation it is an offence to 'intentionally or recklessly disturb a bat' or 'damage, destroy or block access to the resting place of any bat' (Countryside and Rights of Way Act 2001 and further strengthened by other legislation). Where work is being carried out and bats are present, or if the tree is a known roost, consultation must be made with the Statutory Nature Conservancy Organisation (Natural England, 0300 060 1842 www.naturalengland.org.uk). A European Protected Species Habitat Regulations Licence is likely to be required. Work to trees with the potential for roosting bats is best done from late August to early October. March through to April is also suitable although this may conflict with nesting birds (see below).
- 6.2 Birds. It is also likely to be an offence to kill, injure or take any wild bird; or take, damage or destroy the nest of any wild bird while it is in use or being built. Therefore work likely to disturb nesting birds should be avoided from late March to August.
- 6.3 All trees requiring work here should be evaluated prior to work starting, and ideally work should be carried out during August – early October.
- 6.4 The pruning of some species should avoid specific times. *Prunus* species (eg flowering and fruiting Cherry, Plum, Almond etc) should only be pruned during June – August in order to minimise the risk of infection by Silver Leaf disease. *Acer* (Maples including Sycamore), *Betula* (Birches) and, *Morus* (Mulberry) should not be pruned February – June due to sap bleeding; also *Juglans* (Walnut) from December – June.

7.0 PLANNING CONSIDERATIONS

- 7.1 If the site is subject to Tree Preservation Orders (TPO) at present, any pruning work to protected trees (or their removal) will have to be authorised by the Local Planning Authority, and should be the subject of a formal application. Any pruning or felling of trees within a Conservation Area requires a notification to the Local Planning Authority. Certain exemptions apply to these planning provisions. For any trees not already under a TPO, the Local Planning Authority may impose some tree protection as part of the planning process, either as a 'condition of planning' or by the placement of a TPO.

8.0 SCHEDULE EXPLANATION

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)		Crown Height (m)	Physiological Condition		Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Comments
	Common Name				N	E		Structural Condition	Crown Class					
	Botanical Name				W	S								



9.0 CASCADE CHART FOR TREE QUALITY ASSESSMENT

TREES FOR REMOVAL			
Category	Criteria		
<p>‘U’ Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management.</p>	<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 ‘U’ category trees (ie 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 (eg Dutch Elm disease) or very low quality trees suppressing adjacent trees of better quality. <p>NOTE: Habitat reinstatement may be appropriate (eg ‘U’ category tree used as a bat roost, installation of bat box in nearby tree)</p>		
TREES TO BE CONSIDERED FOR RETENTION			
	1. Mainly arboricultural values	2. Mainly landscape values	3. Mainly cultural values, including conservation
<p>‘A’ Those of high quality and value: in such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested)</p>	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (eg the dominant and/or principal trees within an avenue)	Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (eg avenues or other arboricultural features assessed as groups)	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (eg veteran trees or wood pasture)
<p>‘B’ Those of moderate quality and value: in such a condition as to make a significant contribution (a minimum of 20 years is suggested)</p>	Trees that might be included in the high category, but are downgraded because of impaired condition (eg presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboricultural features (eg trees of moderate quality within an avenue that includes better ‘A’ category specimens) or trees situated mainly internally to the site, therefore individually having little visual impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits
<p>‘C’ Those of low quality and value: currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested) or young trees with a stem diameter below 150 mm</p>	Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value and/or trees offering low or only temporary screening benefit	Trees with very limited conservation or other cultural benefits
<p>NOTE: Whilst ‘C’ category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm should be considered for relocation</p>			

10.0 SCHEDULE

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)			Crown Height (m)	Physiological Condition	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name				W	N	E		Structural Condition					
	Botanical Name													
H1	Mature	<4	<200					Fair	20+	C2	18	2.4	Field/Road boundary hedge. Overgrown would benefit from cyclical management.	
	Privet Hawthorn							Fair						
	Elder and other self seeded trees							Intermediate						
H2	Mature	<4	<200					Fair	20+	C2	18	2.4	Broken field boundary hedges.	
	Hawthorn and self seeded hedgeline trees							Fair						
								Intermediate						
G1	Semi-Mature	<10	<400					Fair	20+	C2	72	4.8	Hedgeline trees. Predominantly Willow. Grazing damage to lower main stems. Limited value.	
	Birch							Fair						
	Crack Willow							Codominant						
T1	Over-Mature	14	820		5	5	4	Fair	20+	C1	302	9.8	Large amount of deadwood throughout canopy. Some grazing damage to lower main stem. Requires crown clean.	
	Ash							Fair						
	<i>Fraxinus excelsior</i>							Dominant						
T2	Mature	10	500		4	4	1.5	Fair	20+	C1	113	6.0	Some deadwood within canopy and grazing damage to lower main stem.	
	Field Maple							Fair						
	<i>Acer campestre</i>							Dominant						
T3	Mature	11	800		7	7	1.5	Fair	30+	B1	290	9.6	Some deadwood within canopy and grazing damage to lower main stem. Wire ingrown into lower stem. Would benefit from crown clean.	
	Oak							Fair						
	<i>Quercus robur</i>							Dominant						
T4	Mature	14	780		4	4	2	Fair	20+	C1	278	9.4	Evidence of lightening strike and fire damage to upper main stem. Shows good recovery and reasonable crown shape.	
	Ash							Fair						
	<i>Quercus robur</i>							Dominant						

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)			Crown Height (m)	Physiological Condition		Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name				Botanical Name	W	N		E	Structural Condition					
T5	Mature	14		300	5			3	Fair	20+	C1	72	4.8	Multistemmed tree from base. Possible bark inclusions at separation points.	
	Ash				5	5	Fair								
	<i>Fraxinus excelsior</i>				5		Dominant								
T6	Mature	12	280		2			1	Fair	10+	C3	36	3.4	Growing too close to T7. Limited value.	
	Ash				3	0	Fair								
	<i>Fraxinus excelsior</i>				0		Codominant								
H3	Mature	<4	<200						Fair	20+	C2	18	2.4	Broken field boundary hedges.	
	Hawthorn and self seeded hedgeline trees				Fair										
					Codominant										
T7	Semi-Mature	12	420		5			2	Good	40+	B1	79	5.0	Minor deadwood. Wire ingrown into main stem. Good future potential.	
	Oak				5	5	Good								
	<i>Quercus robur</i>				5		Codominant								
T8	Semi-Mature	13	500		6			3	Good	40+	B1	113	6.0	Minor deadwood. Wire ingrown into main stem. Good future potential.	
	Oak				6	6	Good								
	<i>Quercus robur</i>				6		Codominant								
T9	Early-Mature	10		240	4			1	Fair	10+	C3	31	3.1	Limited value.	
	Ash				0	4	Fair								
	<i>Fraxinus excelsior</i>				4		Dominant								
T10	Semi-Mature	8	560		4			2	Fair	30+	B1	141	6.7	Minor deadwood. Wire ingrown into main stem. Good future potential.	
	Oak				4	4	Fair								
	<i>Quercus robur</i>				4		Dominant								

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)		Crown Height (m)	Physiological Condition	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name				W	N E		Structural Condition					
	Botanical Name												
T11	Semi-Mature	10	500		4		2	Fair	30+	B1	113	6.0	Minor deadwood. Wire ingrown into main stem. Good future potential.
	Oak				4	4		Fair					
	<i>Quercus robur</i>				4			Dominant					
H4	Mature	<6	<200					Fair	20+	C2	18	2.4	Predominantly Hawthorn field boundary hedge inclusive of hedgeline trees.
	Field Maple							Fair					
	Hawthorn Ash (saplings)							Intermediate					
H5	Early-Mature	<6	<200					Fair	30+	B2	18	2.4	Field/Track boundary hedge of mixed deciduous species. Predominantly Hawthorn.
	Hawthorn							Fair					
	Beech Elm Oak Ash Crack Willow							Intermediate					
T12	Semi-Mature	11	500		5		2	Fair	30+	B2	113	6.0	Hedgeline tree. No visible defects.
	Oak				5	5		Fair					
	<i>Quercus robur</i>				5			Codominant					
T13	Mature	10		400 500	4		3	Fair	30+	B1	129	6.4	Bifurcates at 0.2m. No visible defects.
	Oak				5	5		Fair					
	<i>Quercus robur</i>				4			Dominant					
T14	Mature	11	540		5		3	Fair	30+	B1	133	6.5	Field boundary tree. Reasonable specimen. Minor grazing damage to lower stem. Lower stem contains Ingrown wire.
	Oak				5	5		Fair					
	<i>Quercus robur</i>				5			Dominant					
T15	Mature	11	600		5		3	Fair	30+	B1	163	7.2	Field boundary tree. Reasonable specimen. Lower stem contains Ingrown wire.
	Oak				5	5		Fair					
	<i>Quercus robur</i>				5			Dominant					

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)			Crown Height (m)	Physiological Condition	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name				W	N	E		Structural Condition					
	Botanical Name													
H6	Mature	<4	<200					Fair	20+	C2	18	2.4	Broken boundary hedge. Predominantly Hawthorn with younger trees within. Large gaps throughout.	
	Hawthorn							Fair						
	Ash Oak							Intermediate						
G3	Semi-Mature	<9	<400					Poor	10+	C2	72	4.8	Trees to East end of group contain large dead branches. Require crown clean.	
	Oak							Fair						
	Ash Hawthorn							Codominant						
T16	Semi-Mature	9	330		2	3	4	2	Fair	20+	C1	50	4.0	Minor deadwood. Asymmetrical and Leans to East.
	Ash								Fair					
	<i>Fraxinus excelsior</i>								Dominant					
G4	Semi-Mature	<12	<500						Good	30+	B2	113	6.0	Good field boundary trees, Predominantly Oak.
	Oak								Good					
	Field Maple Ash								Codominant					
T17	Semi-Mature	9	480		5	5	5	3	Fair	30+	B1	106	5.8	Reasonable specimen. No visible defects.
	Oak								Fair					
	<i>Quercus robur</i>								Dominant					
T18	Semi-Mature	9	490		5	5	5	3	Fair	30+	B1	109	5.9	Reasonable specimen. No visible defects.
	Oak								Fair					
	<i>Quercus robur</i>								Dominant					
T19	Semi-Mature	8	400		5	5	5	3	Fair	30+	B1	72	4.8	Reasonable specimen. No visible defects.
	Oak								Fair					
	<i>Quercus robur</i>								Dominant					

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)			Crown Height (m)	Physiological Condition	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name				W	N	E		Structural Condition					
	Botanical Name				W	S	E							
G5	Semi-Mature	<14	<600					Fair	30+	B2	163	7.2	Field Boundary trees. No major defects. Some deadwood.	
	Oak							Fair						
	<i>Quercus robur</i>							Dominant						
T20	Over-Mature	17	450		3	4	5	4	Poor	<10	U	92	5.4	In decline. Large stag headed crown. Large dead branches. Should be considered for removal.
	Ash								Poor					
	<i>Fraxinus excelsior</i>								Codominant					
T21	Semi-Mature	11	430		4	2	4	3	Fair	30+	B2	85	5.2	Asymmetrical to South. No visible defects.
	Oak								Fair					
	<i>Quercus robur</i>								Codominant					
T22	Over-Mature	19	900		7	7	3	5	Fair/Poor	10+	C3	366	10.8	Large tree in decline. Should be considered for removal or heavy reduction.
	Ash								Fair/Poor					
	<i>Fraxinus excelsior</i>								Dominant					
G6	Mature	<20	<800						Fair	20+	B2	290	9.6	Overhang fenceline <6m. Suppressed smaller trees and dead trees should be thinned from group.
	Oak								Fair					
	Ash Sycamore								Codominant					
G7	Early-Mature	<8	<300						Fair	20+	C2	41	3.6	Hedgeline trees. Limited value.
	Birch								Fair					
	Crack Willow Sycamore								Codominant					
T23	Semi-Mature	8		300 200	4	4	4	2	Fair	30+	B2	41	3.6	Hedgeline tree. No visible defects.
	Oak								Fair					
	<i>Quercus robur</i>								Codominant					

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)			Crown Height (m)	Physiological Condition	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name				W	N	E		Structural Condition					
	Botanical Name													
T24	Semi-Mature	8	400		4	4	2	Fair	30+	B2	72	4.8	Hedgeline tree. No visible defects.	
	Oak							Fair						
	<i>Quercus robur</i>							Codominant						
T25	Semi-Mature	8	420		4	4	2	Fair	30+	B2	79	5.0	Hedgeline tree. No visible defects.	
	Oak							Fair						
	<i>Quercus robur</i>							Codominant						
T26	Semi-Mature	8		400 500	5	5	2	Fair	30+	B2	129	6.4	Hedgeline tree. No visible defects.	
	Oak							Fair						
	<i>Quercus robur</i>							Codominant						
T27	Early-Mature	7	270		3	3	2	Fair	30+	B2	32	3.2	Field boundary tree.	
	Oak							Fair						
	<i>Quercus robur</i>							Dominant						
T28	Early-Mature	7		100 100 100 100 200 200 200 200	3	3		Fair	30+	C1	79	5.0	Field boundary tree.	
	Oak							Fair						
	<i>Quercus robur</i>							Dominant						
H7	Mature	<5	<200					Fair	20+	C2	18	2.4	Road/Field boundary hedge with numerous gaps. Predominantly Hawthorn. With self seeded Birch, Ash, Elder, Hazel and Willow.	
	Hawthorn							Fair						
	Self seeded trees							Intermediate						
T29	Semi-Mature	8		100 250 200 250 100 200	4	3 2	0	Fair	10+	C3	71	4.7	Multistemmed from base. Likely weak branch unions at seoparation points. Limited value.	
	Crack Willow							Fair/Poor						
								Dominant						

Tree Group Hedge	Age Class	Height (m)	Trunk Dia. (mm) @ 1.5m	Multiple Stem Dia. (mm) @ 1.5m	Canopy Spread (m)	Crown Height (m)	Physiological Condition	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations
	Common Name						Structural Condition					
	Botanical Name											
G8	Early-Mature	<14	<400				Good	30+	B2	72	4.8	Overhang fenceline boundary <2m. Decent planted specimens.
	Lime Maple						Good					
							Codominant					
G9	Mature	<16	<700				Good	40+	A2	222	8.4	Good quality mature field specimens. Minor deadwood. No visible defects.
	Oak						Good					
							Codominant					
G10	Early-Mature	<12	<300				Good	40+	B2	41	3.6	Woodland edge overhangs boundary fenceline <2m.
	Birch						Good					
	Oak						Codominant					