

**ARBORICULTURAL REPORT  
to BS 5837:2012  
at  
Land at Green Road  
Dodsworth  
Barnsley  
South Yorkshire  
S75 3RR**

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## Contents

<b>1. Introduction .....</b>	<b>3</b>
1.1 Purpose of the Report.....	3
1.2 Terms of Reference.....	3
1.3 Scope of the Report.....	3
1.4 Survey Details.....	4
<b>2. Site Description.....</b>	<b>4</b>
2.1 Topography & Land Use.....	4
2.2 Treescape & Visual Amenity Value.....	4
2.3 Age Class Mix .....	4
2.4 Species Diversity .....	4
<b>3. Status of the Trees.....</b>	<b>5</b>
<b>4. Tree Descriptions and Recommendations.....</b>	<b>5</b>
<b>5. Discussion Relating to the Existing Treescape.....</b>	<b>6</b>
5.1 Tree Condition & Recommended Works .....	6
5.2 Tree Removals for Arboricultural Purposes .....	6
5.3 Remedial Tree Works.....	6
5.4 Monitoring / Further Investigation.....	6
5.5 General Design Advice .....	8
<b>6. Conclusions .....</b>	<b>10</b>
<b>Appendix 1: Tree Descriptions and Recommendations .....</b>	<b>12</b>
<b>Appendix 2: Explanation of Tree Descriptions .....</b>	<b>13</b>
<b>Appendix 3: General Guidelines .....</b>	<b>16</b>
<b>Appendix 4: Glossary of Terms &amp; Abbreviations .....</b>	<b>17</b>
<b>Appendix 5: Author Qualifications.....</b>	<b>18</b>
<b>Appendix 6: Tree Constraints Plan.....</b>	<b>20</b>

## 1. Introduction

### 1.1 Purpose of the Report

- 1.1.1 This report is required at **land at Green Road, Dodworth, Barnsley**, to provide detailed, independent, arboricultural advice on the trees present, in the context of potential development.
- 1.1.2 The purpose of this report is to summarise the findings of an arboricultural assessment of the existing vegetation at the above site; conducted in accordance with the guidelines contained within BS5837: 2012 ‘Trees in relation to design, demolition and construction – Recommendations’.
- 1.1.3 Where necessary, this report will outline any tree works which are required within the current context of the site. It will also grade the trees in accordance with the British Standard; which will guide the design in terms of which trees should be retained and which trees could be removed.

### 1.2 Terms of Reference

- 1.2.1 JCA Ltd has been instructed by **Newett Homes** to survey the site and prepare the findings in a report.
- 1.2.2 For this purpose a topographical survey has been supplied (**Drawing Ref. 3224 - Newett Homes - Dodworth-Trees**), which forms the basis for the Tree Constraints Plan at **Appendix 6**. The topographical survey, along with all other documents supplied to JCA, is assumed to be correct. No checking of such documents will be undertaken and JCA cannot be held responsible for incorrect data supplied by other parties.

### 1.3 Scope of the Report

- 1.3.1 This report is compiled in accordance with *BS 5837:2012 ‘Trees in relation to design, demolition and construction – Recommendations’* and is based on an independent and objective assessment of the existing vegetation.
- 1.3.2 Preliminary recommendations are given with a view to the long-term management of sustainable tree cover and to uphold the interests of health and safety.
- 1.3.3 All trees within the site boundary with a stem diameter above 75mm are included.
- 1.3.4 The specific designs of the proposed development are not generally taken into account at this stage or detailed within this report. This is to be detailed in an Arboricultural Impact Assessment.

## 1.4 Survey Details

- 1.4.1 The surveys took place during April 2022 and November 2022 and were conducted by **Andrew Bussey** *LANTRA Accredited PTI*.
- 1.4.2 During the surveys, all trees were inspected from ground level. Further investigations, such as a climbed inspection or a decay detection survey, have not been undertaken.
- 1.4.3 Measurements were obtained using clinometers, specialist tapes or electronic distometers. Where this was not possible, measurements were estimated to the best ability of the surveyor. JCA endeavour to provide accurate information and will always take measurements unless inhibited by restricted access or other mitigating circumstances. Where measurements have been estimated, they are clearly highlighted at **Appendix 1**.

## 2. Site Description

### 2.1 Topography & Land Use

- 2.1.1 The site, which has multiple undulations in ground level, is occupied by private gardens and an area of waste ground.

### 2.2 Treescape & Visual Amenity Value

- 2.2.1 Collectively, the surveyed vegetation provides a good addition to the local treescape and amenity value of the area.

### 2.3 Age Class Mix

- 2.3.1 The trees surveyed ranged in age from young to mature.

### 2.4 Species Diversity

- 2.4.1 Species surveyed include Apple, Sycamore, Common Ash, Elder, Birch, Hawthorn, Plum, Privet, Cypress, Holly, Horse Chestnut, Oak, Common Alder, Leyland Cypress and Walnut.

### 3. Status of the Trees

- 3.1 A check was made on 7<sup>th</sup> April 2022 with **Barnsley Metropolitan Borough Council**.
- 3.2 We are informed that there are multiple Tree Preservation Orders in force on this site which it is assumed afford protective status to the trees detailed as **T6, T7, T8, T9, G10, T11, T12, T13, T17, T18, T19, T20, T21, T22, T23**, a tree within **G24, T26, G27, T28, T29, G30, G33, T34, T35** and **T36** within this report.
- 3.3 No work must be undertaken to trees subject to a Tree Preservation Order until an approved Works to Protected Trees application has been granted, or until planning permission has been granted which accurately specifies the required works to the trees. Prior to any works being undertaken to protected trees, those instructing and proposing to carry the work should satisfy themselves that all appropriate consents are in place to prevent potential breach of legislation.
- 3.4 The presence of a Tree Preservation Order (TPO) represents the Local Authority's desire to retain trees within the landscape. As such, trees covered by a TPO are generally more likely to require retention within a proposed scheme and this should be taken into account during the design process. In some cases, the removal of TPO trees may be agreed upon, providing the benefits of the proposed development are deemed greater than the material loss of the trees. The value of existing vegetation is just one factor in the decision making process; all benefits of the proposed development will be taken into consideration in the usual manner.

### 4. Tree Descriptions and Recommendations

- 4.1 Full details of all individual trees surveyed are recorded in the tables at **Appendix 1**. A full explanation of the tables can be found at **Appendix 2**. Please refer also to the Tree Constraints Plan at **Appendix 6** for tree locations.

## 5. Discussion Relating to the Existing Treescape

### 5.1 Tree Condition & Recommended Works

- 5.1.1 The tree survey revealed a total of **39** items of vegetation (**26** individual trees, **11** groups of trees and **2** hedges). Of these, **1** tree and **2** groups were identified as retention category 'A', **8** trees and **4** groups were identified as retention category 'B', **14** trees, **4** groups and **2** hedges were identified as retention category 'C' and **4** trees were identified as retention category 'U'. Please refer to **Appendix 2** for retention category and definition criteria.
- 5.1.2 Within the survey, tree works have been identified for reasons of public safety, to ensure the long-term health of the trees or for general maintenance purposes. Such recommendations have been made without regard to any projected layout and should be undertaken irrespective of development. These are summarised in the following sections. For full details on all recommendations, please refer to **Appendix 1**. For an explanation of the priority ratings, see **Appendix 2 (A2.2.5)**.

### 5.2 Tree Removals for Arboricultural Purposes

- 5.2.1 **T3, T6, T19** and **T26** require removal as a matter of high priority (**T19**), moderate priority (**T6** and **T26**) and low priority (**T3**) as detailed at **Appendix 1**.

### 5.3 Remedial Tree Works

- 5.3.1 No remedial pruning works are considered necessary at this time. However, those trees which overhang public footpaths or public highways shall require future maintenance in order to maintain clearance heights for vehicular or pedestrian traffic. These heights should be 5.6m above a road and 2.5m above a footpath.

### 5.4 Monitoring / Further Investigation

- 5.4.1 **T9, T13, T20, T21, G23, T29** and **T35** were noted to have structural or physiological defects, as detailed at **Appendix 1**. Although these trees were considered to be in an acceptable condition at the time of the inspection, the defects observed may lead to their early demise or render them unsafe in the future. As such, it is recommended that these trees be monitored (re-inspected and assessed) on a biennial basis to assess if their condition is still acceptable.
- 5.4.2 In addition, to the above, all trees which are to be retained within the proposed development should be inspected on a regular basis in the interests of risk management. They should have a biennial re-inspection regime, ideally with each inspection falling in a different season to observe defects, pests and diseases that are only evident at certain times of the year.

- 5.4.3 Where a full detailed inspection of trees was inhibited by Ivy or understorey vegetation, it is advised that these trees be re-inspected for any possible defects when Ivy or understorey vegetation has been removed.

## 5.5 General Design Advice

- 5.5.1 The following is an overview of general design considerations relating to tree cover.
- 5.5.2 The precise details of a proposed development are not known at present. The specific implications of a proposed design should be assessed within an Arboricultural Implications Assessment (AIA).
- 5.5.3 The retention categories of the trees surveyed are an indication of their overall values. The category of each item is listed at **Appendix 1** and an explanation of the retention categories is included at **Appendix 2**. As a general rule, those trees listed as retention category 'A' or 'B' are the most valuable items and as such the removal of these is likely to be met with resistance by the Local Planning Authority (LPA). Those items listed as retention category 'C' are of lesser value and the removal of these is less likely to be met with resistance by the LPA. Items listed as retention category 'U' are recommended for removal regardless of any proposals and should not present a constraint to construction. The above information should guide the design in terms of which trees are to be removed and which are to be retained. However, it should be noted that the retention of trees is just one consideration in the design process and each development will be taken for its merits.
- 5.5.4 The location of each tree is plotted on the associated Tree Constraints Plan at **Appendix 6**. This plan identifies the retention category of each tree (Retention A: green canopy, Retention B: blue canopy, Retention C: grey canopy, Retention U: red canopy), the crown spread, and also the associated rooting zone (Root Protection Area or RPA shown in gold). In order to enable the survival of trees shown to be retained within any proposals, both the canopy of the tree and its RPA must be completely avoided wherever possible. This relates to not just the location of new buildings, but also to the location of new areas of hard standing, proposed utility routes and any ground level changes (both excavations and soil piling). Where this is not possible, specialist construction methods and materials will need to be used.
- 5.5.5 Where information is available, the water demand of each tree is provided at **Appendix 1**, in accordance with NHBC Standards 2014 chapter 4.2. 'Building near trees'. The water demand of trees can affect adjacent structures and this is therefore included to inform foundation design, depth and the proximity of proposed structures to trees.
- 5.5.6 Retained trees will require adequate protective measures during development. Such measures typically entail temporary protective fencing, installed to the full extent of the RPA. Where this is not entirely possible, ground protection may also comprise part of the protective measures. This includes a compaction reducing construction detail which enables a degree of construction traffic over/within the RPA.

- 5.5.7 As the RPAs of the trees will require fencing off as a protection measure, this should be brought into consideration when planning such things as access routes and material storage during development. It is accepted that in some cases it is not entirely possible to completely avoid the RPA or canopy lines within a new development. The consulting arboriculturalist should therefore be made aware of any such incursions to make comment and, where possible, advise on mitigation actions. Such details should be contained within an Arboricultural Implications Assessment (AIA).
- 5.5.8 No material storage is permitted within the RPA of retained trees unless confirmed to be acceptable by the consulting arboriculturalist. The exact details and location of protective measures should be included within an Arboricultural Method Statement (AMS).
- 5.5.9 The position of the site compound is a major consideration. It is recommended that this, which typically includes the site office, facilities, toilets, storage of materials and parking, is located away from trees and outside the RPA.
- 5.5.10 Any shade that may be cast by the retained trees must also be considered. Where buildings are to be positioned within the shade cast area of trees, these should be designed in order to maximise light levels.
- 5.5.11 Many development sites contain areas of nature conservation interest. Trees and hedgerows, in particular, can provide an important habitat for birds, bats, invertebrates and fungi and appropriate attention needs to be paid to preserving habitats throughout the development process. JCA can provide Ecological Surveys and Bat Surveys where required.
- 5.5.12 If a landscape planting scheme is proposed, consideration must be made at the planning stage as to where this is to be implemented on site. Such locations should be protected in order to prevent soil compaction and/or contamination and should therefore form part of the Construction Exclusion Zone. JCA can provide Tree Planting Schemes where required.

## 6. Conclusions

- 6.1 **T6, T7, T8, T9, G10, T11, T12, T13, T17, T18, T19, T20, T21, T22, T23**, a tree within **G24, T26, G27, T28, T29, G30, G33, T34, T35** and **T36** are assumed to be protected by Tree Preservation Orders.
- 6.2 **T3, T6, T19** and **T26** have been recommended for removal for arboricultural reasons, as summarised in **Section 5.2** and are detailed at **Appendix 1**.
- 6.3 **T9, T13, T20, T21, G23, T29** and **T35** have been recommended for biennial monitoring due to the presence of physiological or structural defects, as summarised in **Section 5.4** and detailed at **Appendix 1**.
- 6.4 General design advice has been provided in **Section 5.5**.
- 6.5 Upon provision of specific proposals, site-specific advice can be given with regards to the impact on trees. In accordance with **Section 5.4** of **BS 5837: 2012**, the next stage on this site should be the preparation of an **Arboricultural Impact Assessment (AIA)**, which will illustrate and discuss the impact of the proposals on the trees and vice versa, to help to inform good design.
- 6.6 The data gained during the survey provides an indication of the health of the trees. However, it does not enable a comprehensive assessment of their condition over time. Trees are living organisms which are affected by many factors including weather conditions, diseases/disorders, light levels and human activities. Due of this, this report is only valid for a period of 1 year from the date of issuing. Should an update or revision of this report be required outside of this time period, JCA may require a further site visit to ensure that the condition of the trees has not significantly changed. It is advised that the trees are inspected regularly, in the interests of risk management.

# Appendices

Tree Ref.	Age	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread			Observations	Recommendations  Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
	Common Name <i>Botanical Name</i>					N	W	E								
T 1	Early-mature  Apple <i>Malus sp.</i>	5	2	2  n/a	28# x 2 Avg.	2  3		3.5  2.5	Twin-stemmed at ground level with a balanced crown. Not fully inspected due to Ivy.  n/a	No action required.  n/a	GOOD	FAIR	LOW	MOD	20+	C 1
G 2	Young to semi-mature  Mixed species <i>Details in observations</i>	To 14	0	0  n/a	To 18#		See plan		Groups of self-seeded Sycamore, Common Ash, Elder, Holly, Birch, Hawthorn and Plum of a low value.  n/a	No action required.  n/a	GOOD	GOOD	LOW	MOD TO HIGH	20+	C 2
T 3	Early-mature  Hawthorn <i>Crataegus monogyna</i>	6	1	1  n/a	35	3		3	Multi-stemmed at 1.5m with a balanced crown which is circa 80% dead.  3	Remove to ground level.  Low	POOR	FAIR	LOW	HIGH	<10	U
H 4	Semi-mature  Privet <i>Ligustrum ovalifolium</i>	To 5	0+	0+  n/a	To 10		See plan		A hedge which has been maintained in the past. Occasional self-seeded Common Ash and Holly within.  n/a	No action required.  n/a	GOOD	FAIR	LOW	NO DATA	10+	C 2
T 5	Early-mature  Cypress <i>Cupressus sp.</i>	8	0	0  n/a	7 x 7 Avg.	2		2	Multi-stemmed at ground level with a balanced crown. No evidence of significant pruning. No major visible defects.  2	No action required.  n/a	GOOD	GOOD	LOW	HIGH	20+	C 1
T 6	Mature  Horse Chestnut <i>Aesculus hippocastanum</i>	9	1	3  N	52	5		6	Overhanging the road. Single-stemmed and vertical with an unbalanced crown. Significant die-back due to Bleeding Canker of Horse Chestnut. A part of the crown and a side branch have snapped out.  3	Remove to ground level.  Moderate	POOR	POOR	LOW	MOD	<10	U
T 7	Mature  Sycamore <i>Acer pseudoplatanus</i>	17	6	4  E	62	6		8	Overhanging the road. Single-stemmed and vertical with a slightly unbalanced crown. Occasional pruning wounds. No major visible defects.  2.5	No action required.  n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 8	Mature  Sycamore <i>Acer pseudoplatanus</i>	17	6	5  E	62	7		8	Overhanging the road. Single-stemmed and vertical with a slightly unbalanced crown. Occasional pruning wounds. No major visible defects.  3.5	No action required.  n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 9	Mature  Horse Chestnut <i>Aesculus hippocastanum</i>	16	1.5	1.5  SW	86	5		10	Overhanging the road. Single-stemmed and vertical with an unbalanced crown. A torn out branch wound is present at circa 7m. Cavities are present on the main stem. Bark ribbing due to Bleeding Canker of Horse Chestnut noted to many limbs.  5.5	Monitor annually.  Moderate	FAIR	FAIR	MOD	MOD	20+	B 1
G 10	Early-mature to mature  Mixed species <i>Details in observations</i>	To 17	1+	1+  n/a	To 75#		See plan		Overhanging the road. A linear group of Sycamore and Horse Chestnut of good form. Occasional pruning wounds. Not fully inspected due to Ivy and dense vegetation.  n/a	No action required.  n/a	GOOD	GOOD	MOD	MOD	40+	A 2

Tree Ref.	Age	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread			Observations	Recommendations  Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
	Common Name <i>Botanical Name</i>					N	W	E								
T 11	Early-mature Horse Chestnut <i>Aesculus hippocastanum</i>	5	2	2 n/a	20	2 3 2	3.5		A tree of poor form due to suppression by adjacent trees.	No action required.  n/a	GOOD	FAIR	LOW	MOD	10+	C 1
T 12	Early-mature Sycamore <i>Acer pseudoplatanus</i>	10	4	4 n/a	26	1 3 1.5	1.5		Overhanging the road. Single-stemmed and vertical with an unbalanced crown and a poor form.	No action required.  n/a	GOOD	FAIR	LOW	MOD	10+	C 1
T 13	Mature Common Ash <i>Fraxinus excelsior</i>	14	5	6 n/a	68	7 7 7			Multi-stemmed at 5m with a balanced crown. Previously topped above the stem junction with poorly formed regrowth.	Monitor biennially.  Low	GOOD	FAIR	MOD	MOD	10+	C 1
G 14	Early-mature Cypress <i>Cupressus sp.</i>	To 9	0+	0+ n/a	To 32	See plan			Two trees of a reasonable form. No major visible defects.	No action required.  n/a	GOOD	GOOD	LOW	HIGH	20+	C 2
T 15	Early-mature Apple <i>Malus sp.</i>	6	1	1 n/a	27	2.5 2.5 2.5			Single-stemmed and vertical with a balanced crown. Occasional pruning wounds. No major visible defects.	No action required.  n/a	GOOD	GOOD	LOW	MOD	40+	C 1
H 16	Young to early-mature Mixed species <i>Details in observations</i>	To 12	0+	0+ n/a	To 20#	See plan			An unmaintained Leyland Cypress, Hawthorn and Elder hedgerow.	No action required.  n/a	GOOD	GOOD	LOW	LOW TO HIGH	20+	C 2
T 17	Mature Walnut <i>Juglans regia</i>	14	1.5	2 S	50#	6.5 3# 6# 6.5			Growing through the boundary fence. Twin-stemmed at 1.5m with a balanced crown. Not fully inspected due to limited access.	No action required.  n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 18	Early-mature Sycamore <i>Acer pseudoplatanus</i>	13	2.5	2.5 n/a	45	2.5 5# 4.5 5#			Single-stemmed and vertical with a slightly unbalanced crown. No evidence of significant pruning. No major visible defects. Not fully inspected due to vegetation.	No action required.  n/a	GOOD	GOOD	MOD	MOD	40+	B 1
T 19	Mature Common Ash <i>Fraxinus excelsior</i>	16	6	6 n/a	68	1 3 4 4			Overhanging the road. Formerly co-dominant, however, one half of the tree has snapped out and significant decay is present at this point.	Remove to ground level.  High	FAIR	POOR	LOW	MOD	<10	U
T 20	Early-mature Horse Chestnut <i>Aesculus hippocastanum</i>	7	1	3 n/a	30	2 4.5 3 4.5			Single-stemmed and vertical with an unbalanced crown and a poor form. A cavity is present at circa 3m.	Monitor biennially.  Low	GOOD	FAIR	LOW	MOD	10+	C 1

Tree Ref.	Age	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread			Observations	Recommendations  Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
	Common Name  Botanical Name					N	W	E								
T 21	Early-mature Sycamore <i>Acer pseudoplatanus</i>	13	3	3 n/a	44	4.5 4.5 4.5			Multi-stemmed at 5m with a balanced crown. Included bark is present at the stem junction.	Monitor biennially.  Low	GOOD	FAIR	LOW	MOD	10+	C 1
T 22	Mature Sycamore <i>Acer pseudoplatanus</i>	18	1	4 n/a	85#	9 9# 9#			Twin-stemmed at 4m with a balanced crown. Not fully inspected due to Ivy.	No action required.  n/a	GOOD	GOOD	MOD	MOD	40+	A 1
G 23	Early-mature Hawthorn <i>Crataegus monogyna</i>	To 10	1+	2+ n/a	To 40#	See plan			A severely leaning tree of a poor form and a tree of a reasonable form. Not fully inspected due to vegetation.	Monitor biennially.  Low	GOOD	POOR	LOW	HIGH	10+	C 1
G 24	Young to mature Mixed species <i>Details in observations</i>	To 18	0+	0+ n/a	To 75#	See plan			Common Ash, Hawthorn and Sycamore of a reasonable form. Not fully inspected due to Ivy and vegetation.	No action required.  n/a	GOOD	GOOD	MOD	MOD TO HIGH	20+	B 2
T 25	Early-mature Hawthorn <i>Crataegus monogyna</i>	9	1	1 n/a	25 x 3 Avg.	3.5 3 3			Multi-stemmed at 1m with a balanced crown. No major visible defects.	No action required.  n/a	GOOD	GOOD	MOD	HIGH	40+	B 1
T 26	Mature Common Ash <i>Fraxinus excelsior</i>	18	4	4 n/a	65#	10# 0 14# 0			A tree which is severely leaning to the northeast and has a large basal tear with decay at the base at the point where a co-dominant stem has snapped out.	Remove.  Moderate	FAIR	POOR	LOW	MOD	<10	U
G 27	Young to mature Mixed species <i>Details in observations</i>	To 16	0+	0+ n/a	To 50#	See plan			A linear group of Sycamore and Common Ash with an understory of Hawthorn. Not fully inspected due to dense vegetation.	No action required.  n/a	GOOD	GOOD	MOD	MOD TO HIGH	40+	B 2
G 28	Semi to early-mature Mixed species <i>Details in observations</i>	To 14	0+	0+ n/a	To 28#	See plan			A group of Sycamore, Common Ash and Hawthorn of a reasonable form. Not fully inspected due to Ivy and vegetation.	No action required.  n/a	GOOD	GOOD	LOW	MOD TO HIGH	20+	C 2
T 29	Mature Sycamore <i>Acer pseudoplatanus</i>	16	1.5	2 E	70#	7 5 8			Twin-stemmed at 3m with a balanced crown. Snapped branches to the lower crown (east). Earthworks have been undertaken within the rooting zone.	Monitor biennially.  Low	GOOD	GOOD	MOD	MOD	40+	B 1
G 30	Semi to early-mature Mixed species <i>Details in observations</i>	To 16	0+	0+ n/a	To 75#	See plan			A linear group of Sycamore, Common Ash and Hawthorn of a good form. Not fully inspected due to vegetation.	No action required.  n/a	GOOD	GOOD	MOD	MOD TO HIGH	40+	B 1 B 2

Tree Ref.	Age	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
	Common Name					N W E S		Priority						
G 31	Young to semi-mature Mixed species <i>Details in observations</i>	To 8	0+	0+ n/a	To 15	See plan	Self-seeded tree masses comprised of Sycamore, Common Ash, Oak, Goat Willow and Common Alder.	No action required. n/a	GOOD	GOOD	LOW	MOD TO HIGH	20+	C 2
G 32	Semi to early-mature Mixed species <i>Details in observations</i>	To 15	0+	0+ n/a	To 45#	See plan	A linear group comprised of Sycamore, Hawthorn, Common Ash and Goat Willow. Not fully inspected due to vegetation.	No action required. n/a	GOOD	GOOD	MOD	MOD TO HIGH	40+	1 B 2
G 33	Semi-mature to mature Mixed species <i>Details in observations</i>	To 20	0+	0+ n/a	To 80#	See plan	A linear group comprised of Sycamore, Oak, Common Ash, Elder and Beech. Not fully inspected due to vegetation.	No action required. n/a	GOOD	GOOD	MOD	LOW TO HIGH	40+	1 A 2
T 34	Early-mature Sycamore <i>Acer pseudoplatanus</i>	15	3	3 n/a	42	2 5 2 5	Single-stemmed and vertical with an unbalanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 1
T 35	Early-mature Common Ash <i>Fraxinus excelsior</i>	16	5	7 n/a	55, 35	5# 6# 5#	Twin-stemmed at ground level with a balanced crown. A possible weak union is present at the stem junction.	Monitor biennially. Low	GOOD	FAIR	LOW	MOD	10+	C 1
T 36	Mature Common Ash <i>Fraxinus excelsior</i>	13	2	4.5 NW	50, 40#	7 8 6# 5	Twin-stemmed at ground level with a balanced crown. Not fully inspected due to limited access and Ivy.	No action required. n/a	GOOD	GOOD	MOD	MOD	20+	B 2
T 37	Early-mature Hawthorn <i>Crataegus monogyna</i>	5	0	1.5 n/a	23	2 2 2	Twin-stemmed at 1.5m with a balanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	40+	C 1
T 38	Early-mature Sycamore <i>Acer pseudoplatanus</i>	10	2	1.5 W	32	3.5 3.5# 3.5	Multi-stemmed at 1.8m with a balanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 1
T 39	Early-mature Leyland Cypress <i>X Cupressocyparis leylandii</i>	7	1	1 n/a	25#	2.3 2.3 2.3	Situated on adjacent land. Single-stemmed and vertical with a balanced crown.	No action required. n/a	GOOD	GOOD	LOW	HIGH	20+	C 1

## Appendix 2: Explanation of Tree Descriptions

### A2.1 Measurements/ Reference Information

- A2.1.1 *REF NUMBER*. All items surveyed are allocated a reference number preceded with a letter, identifying the type of vegetation surveyed: T = an individual tree, G = a group of trees or an area of vegetation, W = woodland, H = a hedgerow.
- A2.1.2 *SPECIES: COMMON AND BOTANICAL NAME*. The common and botanical names of the species present are noted. If the species is not clear or identifiable, then a general common name and genus will be noted.
- A2.1.3 *AGE CLASS* of the tree is described as young, semi-mature, early-mature, mature, over-mature, veteran or dead.
- A2.1.4 *HEIGHT* of the tree is measured in metres from the stem base to the top of the crown.
- A2.1.5 *CROWN HEIGHT* is an indication of the height above ground level at which the crown begins.
- A2.1.6 *STEM DIAMETER* is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed at this point; diameter measurements are taken for each stem. If more than five stems are present, an average stem diameter is taken. If for whatever reason it is not practical to measure multiple-stemmed trees in this way, the diameter is measured close to ground level, just above the root buttress.
- A2.1.7 *CROWN SPREAD* is measured from the centre of the stem base to the tips of the branches to all four cardinal points.
- A2.1.8 *HEIGHT AND DIRECTION OF LOWEST BRANCH*. The height and direction of the lowest significant branch is noted because of potential issues relating to clearances and the need for tree pruning.
- A2.1.9 *NHBC WATER DEMAND*. The water demand of each tree, as listed in NHBC Standards 2010 Chapter 4.2 'Building near trees'. This is included to aid structural engineers, architects and other members of the design team as it determines foundation depth and other considerations with regard to trees.

## A2.2 Evaluations

- A2.2.1 *PHYSIOLOGICAL CONDITION* is classed as good, fair, poor, or dead. This is an indication of the health and vitality of the tree and takes into account vigour, presence of disease and dieback.
- A2.2.2 *STRUCTURAL CONDITION* is classed as good, fair or poor. This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.
- A2.2.3 *LIFE EXPECTANCY* is classed as; Dead, less than 10 years, 10+ years, 20+ years, or 40 + years. This is an indication of the minimum number of years before removal of the tree is likely to be required.
- A2.2.4 *AMENITY VALUE*. A general indication is given in respect to the amenity/landscape value of the tree/group within the surrounding area.
- A2.2.5 *PRIORITIES*. A priority rating is given concerning the time periods in which the recommended works should be undertaken. LOW priority works should be undertaken within 12 months of the survey, MOD (moderate) priority works should be undertaken within 6 months and HIGH priority works should be completed as soon as practically possible. If no works are recommended, N/A (not applicable) will be used.

## A2.3 Retention Categories

- A2.3.1 *A (marked green on the Tree Constraints Plan) = Trees of high quality.*
- These trees are of high quality and value with a good life expectancy (usually with an estimated remaining life expectancy of 40 years).
- A2.3.2 *B (marked in blue on the Tree Constraints Plan) = Trees of moderate quality.*
- These trees are of moderate quality and value with a reasonable life expectancy (usually with an estimated life expectancy of at least 20 years).
- A2.3.3 *C (marked in grey on the Tree Constraints Plan) = Trees of low quality.*
- These trees are of low quality and value but which are in adequate condition to remain or are young trees with a stem diameter below 15cm (usually with an estimated life expectancy of at least 10 years).
- A2.3.4 Trees categorised as retention category 'A', 'B' or 'C' are then justified by being further divided into 3 subcategories:
- 1 = Mainly arboricultural qualities.
  - 2 = Mainly landscape qualities.
  - 3 = Mainly cultural values, including conservation value.

**A2.3.5 U (marked in red on the Tree Constraints Plan) = Trees usually unsuitable for retention due to poor condition.**

These trees are in such a condition that they cannot be realistically retained as living trees in the context of the current land use for longer than 10 years. This may be due to any of the following:

- 1) Failure is likely due to serious, irredeemable, structural defects.
- 2) Removal of other category U trees will render them exposed and unstable.
- 3) They are in serious, overall decline or are dead.
- 4) They are of low quality and suppressing adjacent trees of better quality.
- 5) Diseases are present which may affect the health of adjacent trees.

These trees are to be removed or managed in a way which reduces their risk of failure, where they have high ecological value, such as in a woodland setting.

## Appendix 3: General Guidelines

- A3.1 All tree work should be undertaken to BS 3998: 2010 '*Recommendations for tree work*' or other recognised industry practice.
- A3.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors. They should be covered by adequate public liability insurance.
- A3.3 This report is based upon a visual inspection. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed therein.
- A3.4 Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.
- A3.5 No liability can be accepted by JCA in respect of the trees unless the recommendations of this report are carried out under the supervision of JCA and within JCA's timescale.
- A3.6 It is advisable to have trees inspected by an arboricultural consultant on a regular basis.

## Appendix 4: Glossary of Terms & Abbreviations

<b>Arboriculture</b>	The cultivation of trees in order to produce individual specimens of the greatest ornament, for shelter or any primary purpose other than the production of timber or fruit.
<b>Canker</b>	Disease damaged area of a tree, usually caused by fungus or bacteria affecting the bark.
<b>Co-dominant stem</b>	A stem which has grown in direct competition to the main stem and which has formed a substantial size influencing the appearance of the tree.
<b>Crown lift</b>	The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance underneath for vehicles etc.
<b>Crown reduction</b>	The reduction of a tree's height and spread while preserving its natural shape.
<b>Crown thin</b>	The removal of some of the density of a tree's crown, usually 5-15% allowing more light through its canopy and reducing wind resistance.
<b>Deadwood</b>	Either dead branches, or a procedure involving the removal of dead, dying and diseased branches.
<b>Dieback</b>	Where branches are beginning to show signs of death usually at the tips in the crown.
<b>Epicormic shoots</b>	Small branches that grow in clusters around the base of the stem of a tree or within the crown. This is usually as a result of bad pruning or some other stress factor, although can be a natural growth pattern for some species of tree (eg Lime species).
<b>Included bark</b>	Where the bark on two adjoining branches or stems is growing tight together, forming a joint with limited physical strength.
<b>Pollarding</b>	A method of tree management in which the main trunk and principle branches of the tree are cut to the same height, and the resulting branches are then cropped on a regular basis.
<b>Remedial pruning</b>	The removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tree's crown. Sometimes referred to as crown cleaning.
<b>RPA</b>	Root Protection Area – Theoretical rooting area of a tree as defined in BS 5837:2012 ' <i>Trees in relation to design, demolition and construction – Recommendations</i> '.
<b>Topping</b>	Topping is a form of pruning that removes terminal growth leaving a 'stub' cut end. Topping can cause serious health problems to a tree.

## Appendix 5: Author Qualifications

### Principal Consultant and Managing Director

**Jonathan Cocking** *F.R.E.S., Tech. Cert. (Arbor.A), PDipArb (RFS) FArborA CBiol MSB. MICFor.* Jonathan is a Registered Consultant and Fellow of the Arboricultural Association and sits on its Professional Committee. He has 31 years' experience in the Arboricultural profession and served for eight years as Senior Arboriculturist with a large local authority before establishing JCA in 1997. Jonathan has since developed JCA's portfolio of services and its extensive client base. He is a Chartered Biologist, a Chartered Arboriculturalist and an Expert Witness with much experience of litigation work.

### Technical Director

**Toby Thwaites** *BSc (Hons), HND (Arboriculture), MArborA.* Toby joined JCA in 1998 after graduating in Ecology at the University of Huddersfield and has since graduated in Arboriculture at the University of Central Lancashire. A former JCA team leader and Consulting Arboriculturist, Toby is now Technical Director and oversees all office and on-site activities at JCA and is on hand to offer technical support and advice.

### Operations Director

**Charles Cocking** *FdSc (Arboriculture), MArborA.* Charles joined JCA in January 2014 having previously worked for the company on a part time basis during 2013. Charles obtained his Foundation Degree in Arboriculture at Askham Bryan College, York, and is a Professional Member of the Arboricultural Association. Charles now oversees all internal operations for the company.

### Consulting Staff: Arboriculture

**Andrew Bussey.** Andrew started working in consultancy at JCA in 2006 having spent 12 years working as an arborist for various private companies before joining a Local Authority forestry team. He has various NPTC qualifications, is QTRA qualified and is a LANTRA Accredited Professional Tree Inspector.

**Emily Wilde** *FdSc (Arboriculture).* Emily joined JCA having previously worked for various private tree surgery and consultancy companies over the past 8 years. She initially obtained a ND in Forestry & Arboriculture, followed by a FdSc in Arboriculture at Askham Bryan College, York. Emily has various NPTC certificates and is QTRA qualified.

**Mick Eltringham** *ND (Forestry).* Mick joined JCA after spending 12 years working in the industry for various private companies in the north and south of England. He has also spent the last five years working as a consultant for two canopy research projects in the Amazon Rainforest, working with Oxford University and the University of Arizona. He has various NPTC Qualifications.

**Dan Kemp** *FdSc (Arboriculture).* Dan joined JCA with nearly 30 years' experience in arboriculture. He worked as a London Tree Officer for 12 years and in several arboricultural and horticultural management posts, specialising particularly in tree risk assessments and tree related subsidence.

**Ryan Bateman** *BSc (Hons), FdSc (Arboriculture), TechArborA.* Ryan joined JCA in 2020 after working as a Lecturer on the Foundation Degree in Arboriculture at Askham Bryan College in York. Ryan has both practical skills, NPTC qualifications and theoretical knowledge and owned his own contracting business prior to, and whilst working as a lecturer.

**Luke Wickham** *FdSc (Arboriculture and Urban Forestry).* Luke joined JCA in 2021 after obtaining his Foundation Degree in Arboriculture and Urban Forestry at Askham Bryan College. Having previously worked within the industry for the past 4 years, running his own small business and sub-contracting for local firms, Luke brings a sound knowledge and understanding of the practical and academic sides of the industry.

**Hazel Irving** *FdSc (Arboriculture and Urban Forestry).* Hazel joined JCA in 2022 after obtaining her Foundation Degree in Arboriculture and Urban Forestry at Askham Bryan College. She has previously worked in the horticulture industry, volunteered with the National Trust and Yorkshire Arboretum and completed the 2021 student research internship at the RHS Wisley Plant Health Centre.

**Andrew McPhaden** *BSc (Hons).* Andrew joined JCA in 2022 having spent 5 years working as an Arborist for various private companies in both the UK and Germany. During his time abroad he obtained the European Tree Worker Certification along with a tree inspector certification from the Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau. He brings a strong understanding of the practical sides of the industry and holds various NPTC qualifications.

## Consulting Staff: Ecology

**Adam West, Principal Ecologist** *BSc (Hons) Animal and Wildlife Management*. Adam joined JCA to lead the expanding ecology department. Having returned to education as a mature student, Adam studied Countryside Management for two years before undertaking a Bachelor's degree, for which he was awarded First Class Honours. Adam has many years' experience in ecological consultancy, working on projects ranging from individual planning applications to national infrastructure projects. Adam holds a Natural England Level 1 great crested newt survey class licence, a Natural England Level 2 bat survey class licence (and the Scottish and Welsh equivalents) and a CSCS card.

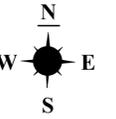
**Audrey Bourdais Paull, Graduate Ecologist** *BSc (Hons) Zoology*. Audrey joined JCA in 2022 after graduating in Zoology from the University of Leeds. Audrey volunteered for many years with various wildlife conservation and rescue organisations, as well as working on various projects to develop a variety of field survey techniques, report writing and data analysis skills. Audrey is looking forward to developing her ecology consultancy experience with JCA, as well as combining her previous dog training and detection work with ecology to expand into ecology detection dogs.

**Helen Chambers, Seasonal Ecologist** *MSc by Research in Environmental Studies, BSc (Hons) Wildlife Conservation with Zoo Biology*. Helen joined JCA in 2022 after completing her master's by research degree at the University of Salford. In 2019 Helen graduated with First Class Honours BSc Wildlife Conservation with Zoo Biology, where she gained theoretical knowledge of, and practical experience with, wildlife monitoring and wildlife legislation. She is hoping to further develop her ecological surveying and report writing skills at JCA.

## Administrative Staff

**Catherine Cocking** Accounts Manager.  
**Kelly Saunders** Accounts Assistant.

**Lorraine Spink** Administrative Assistant.  
**Lisa Beedham** Marketing Manager.



LOCATION OF COLLAPSED COMMON ASH

### Appendix 6: Tree Constraints Plan

ADDRESS: Land at Green Road, Dodworth, Barnsley, South Yorkshire, S75 3RR.  
JCA REF: 18317-B/AJB.

SCALE : 1:500      PAPER SIZE : A1

SURVEYED BY: AJB      DRAWN BY: AJB      APPROVED BY: TT

BRITISH STANDARD 5837:2012: 4.5  
RETENTION CATEGORIES  
Detailed definitions of these categories are at Appendix 2 of our report. N.B. These categories do not necessarily represent or correspond to recommendations for action made in this report.

	CATEGORY A: 'RETENTION MOST DESIRABLE'
	CATEGORY B: 'RETENTION DESIRABLE'
	CATEGORY C: 'TREE WHICH COULD BE RETAINED'
	CATEGORY U: 'TREE FOR REMOVAL'
	STEM OF TREE TO BE RETAINED
	STEM OF TREE TO BE REMOVED
	ROOT PROTECTION AREA
	ROOT PROTECTION AREA (PRIOR TO OFF-SETTING)

### Root Protection Area: RPA

THE ROOT PROTECTION AREA SHOULD IDEALLY REMAIN UNDISTURBED IF THE TREE IS TO BE RETAINED.

THE DEVELOPMENT PROPOSALS SHOULD THEREFORE BE DESIGNED TO AVOID THE RPA OF ANY TREE WHICH IS TO BE RETAINED.

IF IT IS NECESSARY FOR THE DEVELOPMENT TO ENCR OACH INTO THE RPA OF A TREE WHICH IS TO BE RETAINED THEN SPECIALIST CONSTRUCTION TECHNIQUES AND MATERIALS MUST BE CONSIDERED.

THIS PLAN IS TO BE PRINTED IN COLOUR AND READ IN CONJUNCTION WITH THE JCA ARBORICULTURAL REPORT (JCA REF: 18317-B/AJB)



I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed



.....  
**Andrew Bussey** *LANTRA Accredited PTI.*

2<sup>nd</sup> December 2022

For and on behalf of *JCA Ltd*

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# JCA Ltd. Arboricultural and Ecological Consultants

## Professional Tree and Ecology Advice nationwide

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### ARBORICULTURAL SERVICES

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#### Guidance for Architects and Developers

- British Standard 5837 Tree Surveys
- Arboricultural Implication Assessments (AIA)
- Arboricultural Method Statements (AMS)

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#### Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

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#### Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

---

#### Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

---

#### Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

---

#### Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- Tree Health Checks
- Disease Mitigation and Control

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### ECOLOGICAL SERVICES

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#### Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected Species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes

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#### Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)

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#### HEAD QUARTERS:

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