



Arboricultural Impact Assessment BS5837:2012

Address:

16 Milton Rd, Repton, Derby, DE65 6FZ

Apex Environmental Ltd

A: 3 Lawrence Way, Lichfield, WS13 6RD

T: 0121 249 1235

E: info@ael-treeconsultants.co.uk

W: www.ael-treeconsultants.co.uk

Author: Reuben Hayes

Project ref: AEL-19446



Contact details

Client	Address	16 Milton Rd, Repton, Derby, DE65 6FZ
	Name	Mrs E Bell
	Contact	
Architect	Company	Kain Miller Architects
	Address	
	Contact	
	Email	

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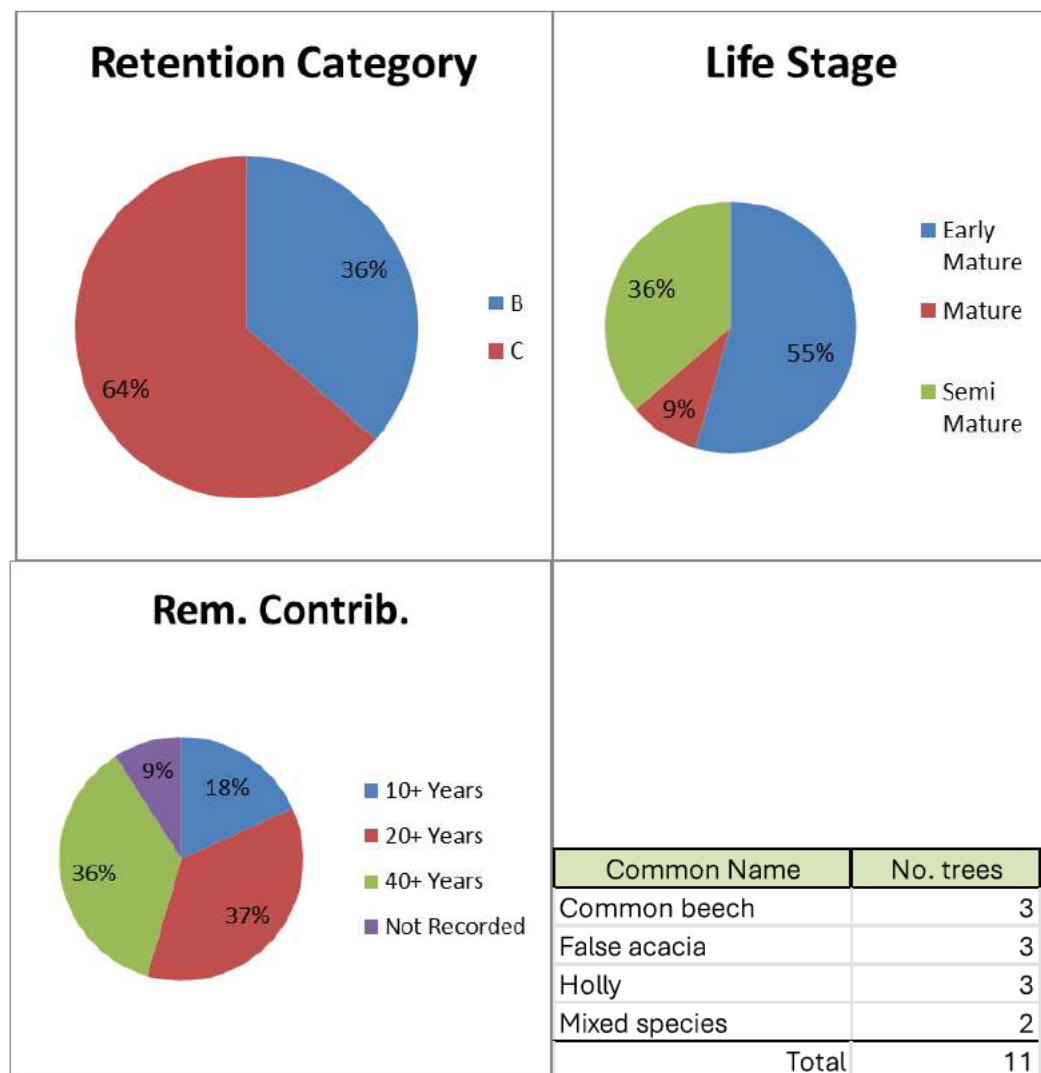
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1. Summary

1.1 Outline of proposal

Removal of existing garage and creation of new garage and games room, rear and side ground floor extension and internal modifications. External driveway re-aliment and addition of new gated entrance.

1.2 Summary of trees



1.3 Works required

Tree reference number	Species	Category grading	Works required	For Development	For Arboriculture
G2	Mixed species (<i>Mixed species</i>)	C2	Part removal of shrub bed	Yes	
T4	Holly (<i>Ilex sp.</i>)	B1	Remove tree	Yes	
T6	Common beech (<i>Fagus sylvatica</i>)	C1	Crown lift 5m	Yes	Yes

2. Particulars of instruction

- 2.1 This report has been prepared to discharge the instruction of the client, Mrs E Bell 'The Client' in respect of detailed planning permission at 16 Milton Rd, Repton, Derby, DE65 6FZ
- 2.2 The Client has instructed Apex Environmental Ltd to undertake an arboricultural assessment in accordance with *BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations, to inform site design and planning*. This includes:
- Full Tree Survey and Categorisation
 - Tree Constraints Plan (TCP)
 - Tree Constraints New Layout Plan (TCNLP)
 - Arboricultural Impact Assessment (AIA)
 - Tree Impact Plan (TIP)
 - Tree Works Plan (TWP)
 - Tree Shadow Plan (TSP)
 - Tree Protection Plan (TPP)
- 2.3 The site survey was carried out on the 20th March 2026. The relevant qualitative and quantitative tree data and information was recorded to assess the condition of the trees and their constraints upon the proposed development and to provide a summary of any proposed protection and construction specification required.
- 2.4 I have based this report on my site observations and the information I have been provided with, and I have come to conclusions in the light of my experience as an arboriculturist. I include a summary of my experience and qualifications in Appendix V.

2.5 All information given is in accordance with *BS5837:2012 – Trees in relation to design, demolition and construction – Recommendations*.

- I. Identification of tree by number value (collates with the associated plans)
- II. Common tree species
- III. Height (m)
- IV. Stem diameter (mm) at 1.5m above ground using a DBH tape (or as per BS5837 fig C.1)
- V. Branch spread to the four cardinal points (m)
- VI. Existing height above ground of first branch and direction (m)
- VII. Existing height above ground of canopy (m)
- VIII. Life stage (Young, Semi Mature, Early Mature, Mature, Over Mature)
- IX. Estimated remaining contribution (yrs) <10, 10+, 20+, 40+
- X. General observations, condition and preliminary management recommendations, physical condition and structural defects
- XI. Category (as per BS5837 Table 1)
- XII. Root Protection Area (RPA) radius (m)
- XIII. Root Protection Area (RPA) m²

3. Caveats

This advice and all appendices are subject to the following caveats:

- 3.1. This report is nullified if any remedial works are undertaken on any area of the site, on or after the date of study/survey.
- 3.2. The report is only valid on the date on inspection and any deletion, editing or alteration will void it in its entirety.
- 3.3. Apex Environmental Ltd does not assume responsibility for any works undertaken on the basis of the recommendations in this report or for any legal matters that may arise as a consequence.
- 3.4. The report is not valid in adverse or unpredictable weather conditions or for any failure due to *force majeure*.
- 3.5. Apex Environmental Ltd does not assume liability for any misuse, misinterpretation or misrepresentation of information contained in this report.
- 3.6. This report has been compiled using only the information made available to the author at the date of inspection.
- 3.7. Unless described as 'detailed', this assessment is of a preliminary nature. It was conducted from ground only, the tree(s) were not climbed or inspected below ground level (including roots). There was no use of decay detection equipment, and only basic surveying instruments were used.
- 3.8. At the time of writing, the author did not have any information as to the integrity of the main structure, its annexes or the drainage system.
- 3.9. Water supply/drainage systems, if damaged, can allow roots to penetrate. However, if the system is sound, or after repair, roots have little capacity to access/damage underground services.
- 3.10. Any doubt as to the structural condition of properties on site would require the advice of a structural engineer.

4. Scope of report

- 4.1 The aim of this report is to give guidance under *BS5837:2012 – Trees in relation to design, demolition and construction – Recommendations*. This will help to facilitate a harmonious and sustainable situation and long-term development.
- 4.2 The report will identify the value and quality of the woody vegetation on and within impacting distance of the site. All data gathered will be used to identify and address the impact that vegetation will have on the proposed development and the impact the development will have on the vegetation.

5. Documents supplied

Document title	Document Ref	Format	By whom	Date given
Existing layout		DWG	Architect	06/03/2026
Proposed Layout		DWG	Architect	06/03/2026

6. Legal and policy information

6.1. Tree Protection

Protection	Status	Comments
Tree Preservation Order	Yes	Online confirmation
Conservation Area	Yes	Online confirmation



6.2. Wildlife protection

Under the Wildlife & Countryside Act 1981 and the Countryside and Rights of Way Act 2000, it is a criminal offence under normal circumstances to disturb or destroy – whether intentional or unintentional - the nesting sites of wild birds or the roost sites of bats. You should therefore avoid carrying out significant tree works during the bird nesting season [mid- March to end of July], and you should ensure that trees are professionally surveyed for signs of bat roosts and/or bat activity before starting any tree work. Further advice on protected species can be obtained from the local office of Natural England.

6.3. Felling licence

Tree felling can also be restricted under the Forestry Act 1967. Under this act, there is an exemption from the need for a felling licence for ‘Felling necessary for the prevention of danger or the prevention or abatement of a nuisance’.

If full planning consent is granted for the current proposal, then any trees that need to be felled in order to implement the approved plans are exempt from this statutory protection. It should also be considered that any proposed tree works detailed in the tree schedule are also implemented as part of the planning decision consent.

7. Site description

- 7.1 The site is a residential property set within the village of Repton.
- 7.2 Currently the land houses a large period detached property with a large driveway to the front and a large garden to the rear.
- 7.3 The property is accessed via Milton Road and there is good access to the site.
- 7.4 The site location is shown in red.



Source: www.google.com

7.5 Soil assessment

The assessment determines whether the soil is shrinkable. If it is, trees and other vegetation have the potential to cause indirect damage to structures. In such cases, further assessments should be carried out and the design of foundations should be considered by a structural engineer.

No information has been supplied on the soil assessment, details of which will need to be obtained and passed to the arboricultural consultant and structural engineer before the submission of any Arboricultural Method Statement.

7.6 Levels

The site has not had any topographical survey carried out, the trees have been plotted from on site features and GPS. Where the tree roots intercept the landscape features the RPAs have been modified.

7.7 Trees surveyed

There is a total of 11 trees and groups have been inspected. This report has only listed the trees in connection to the main development on the site.

8. Tree and vegetation findings

8.1 The survey assessed individual trees and groups using Section 4.4 of BS5837:2012, with findings recorded in accordance with Table B.1 and categorised using Table 1 of the Standard. Tree features were assessed for physiological and structural condition, useful life expectancy, arboricultural value, and their suitability for retention.

Also include:

- A summary table of trees by BS5837 category
- Highlight any high-quality Category A trees or notable specimens
- Summary of any trees showing symptoms of disease (e.g. ash dieback, basal decay)

8.2 Tree categorisation method

The purpose of this method is to identify the quality and value of the existing tree stock, allowing informed decisions to be made about which trees should be removed or retained in the event of development occurring.

A full tree survey has been included in appendix I.

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.

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

Category B – Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.

Category A – Trees of high quality with an estimated remaining life expectancy of at least 40 years.

8.3 Any works with regards to the overall application have been listed in this report.

8.4 Findings

Newly Planted	Young	Semi Mature	Early Mature	Mature	Over Mature	Dead	TOTAL
		4	6	1			11

A	B	C	U
	4	7	

8.5 Review of trees on site

The trees are mainly to the front of the property and set within two groups of trees. There is also a large mature beech tree to the rear and an Acacia tree in the rear corner.

The two groups at the front consist of Laurel and other shrubs which help to screen the building from the road. Within the two groups of trees there are two Acacia trees which look to be growing up from suckers at the front of the property.

There are two Beech trees at the front of the property which are seen from the road and help to frame the property.

To the rear is a large Beech tree which is in decline and has a large Ganoderma bracket at the base of the tree. The tree is likely to fail in the future and is protected by a Tree Preservation Order. The tree will need to be removed within the next 10 – 15 years.

8.6 Tree works due to arboricultural concerns

Potential removal of Beech tree T06

9. Constraints posed by existing trees

The RPA and category of the trees retained on site are listed within the Tree Constraints Plan. This information is taken from above-ground site observations. Inspection chambers or other features that may hinder direct root growth have been indicated within the plan, and the indicated RPA has been amended as per *BS5837:2012 – Trees in relation to design, demolition and construction – Recommendations*, Section 5.2.1.

Further constraints imposed by trees include:

- i. Current and ultimate height and spread of tree(s).
- ii. Species characteristic, including canopy type, density of foliage and species susceptibility to external factors such as honey dew, branch drop and fruit fall.
- iii. Shading on property and gardens, or excessive light to rooms (as indicated within the Tree Shadow Plan).
- iv. The presence of Tree Preservation Orders and the presence of Conservation Areas or other regulatory protection.
- v. Potential incompatibilities between the layout and trees.
- vi. Working and access space needed for the construction of the proposed development. This might involve assess facilitation pruning, or the use of a height restriction to prohibit tall vehicles accessing a site containing trees with low canopies.
- vii. The effect that construction requirements might have on the amenity value of trees, both on and near the site, including the effects of pruning to facilitate access and working space.
- viii. The requirement to protect the overhanging canopies of trees where they could be damaged by machinery, vehicles, barriers or scaffolding, where it will be necessary to increase the extent of the tree protection barriers to contain the canopy.
- ix. Infrastructure requirements in relation to trees, e.g. easements for underground or above-ground apparatus, highway safety and visibility splays, and other infrastructural provisions, such as substations, refuse stores, lighting, signage, solar collectors, satellite dishes and CCTV sightlines.
- x. The proposed end use of the space adjacent to retained trees.
- xi. The potential for new planting to provide mitigation for any losses.

10. Arboricultural Impact Assessment

10.1 Amenity value of the trees on site

The trees are seen from public locations and where possible the trees should be retained.

10.2 Facilitation works

The Tree Works Plan has listed the works necessary to facilitate the application only. Once completed the main project can proceed. Other arboricultural works may be required for health and safety at a later date.

10.3 Storage of materials, siting of welfare units and contractor parking

The Tree Protection Plan (TPP) has indicated the most suitable location for the contractors parking and the storage of materials while the main development takes place. This also include no-dig engineered driveway to ensure care and soil improvement for the retained trees.

10.4 Background to incursions between layout (foundations) and the trees for retention

The default position should be that structures are located outside of the RPA of trees to be retained. However, where there is an overriding justification for construction within the RPA, technical solutions might be available that prevent damage to the tree(s), as per *BS5837:2012 – Trees in relation to design, demolition and construction – Recommendations*, Section 5.3.1.

It should be demonstrated that the tree(s) can remain viable and that the area lost to encroachment can be compensated for elsewhere, contiguous with its RPA, and that a series of mitigation measures to improve the soil environment that is used by the tree for growth can be implemented.

On this basis and under previous BS5837 standards, it is sometimes acceptable to allow for encroachment of up to 10%. It should be possible to have viable grow areas on the other sides of the RPA which exceed 20%, thus compensating for the loss of viable rooting area. It would also be possible to carry out decomposition to the soils and add minerals and nutrients to aid root development in the viable areas.

10.5 Background to incursions between layout (drives, parking areas, paths, landscaping) and the trees for retention

Where permanent hard surfacing within the RPA is considered unavoidable, site-specific and specialist arboricultural and construction design advice should be sought to determine whether it is achievable without significant adverse impact on the trees.

The design should not require excavation into the soil, including through lowering of levels and or scraping, other than the removal, using hand tools, of any turf layer or other vegetation.

The structure of the hard surface should be designed to avoid localised compaction by evenly distributing the load.

New permanent hard surfacing should not exceed 20% of any existing unsurfaced ground within the RPA.

In order to maintain the soil volume moisture, the surface should be of permeable hard material (unless there is a risk of water logging of soils). The design should incorporate a three-dimensional design such as 'no-dig' Cell Web. Any 'no-dig' specification has been included within the Tree Protection Plan.

10.6 Understanding foundation techniques

The use of tradition strip footings can result in extensive root loss and should be avoided within the RPA. Specially engineered structures within RPAs should be justified if this enables the retention of good quality trees such as category A and B.

Root damage can be minimised by using piles, with site investigations used to determine their optimal location (avoiding damage to roots important for the stability of the tree). This should be carried out to a minimum depth of 600mm and can be undertaken either by hand tools or compressed air soil displacement.

The piles should be the smallest practical pile diameter to reduce the possibility of striking major tree roots. This also reduces the size of the rig requirements. When selecting the pile type, the need to protect the soil and adjacent roots from the potentially toxic effects of uncured concrete should be considered.

The beams should be laid at or above ground level and cantilevered as necessary to avoid tree roots identified by site investigations.

Following any approval decision, details and specifications will be included within a full Arboricultural Method Statement.

Where a slab for a minor structure such as sheds or garden rooms is to be formed within the RPA, it should bear on existing ground level and should not exceed an area greater than 20% of the existing unsurfaced ground.

10.7 Incursions on this project

The project is to remove the existing garage and erect a new garage slightly further back and in line with the existing building line. To include a new ground floor extension to the north which wraps around the building to the rear.

To the front the entrance is to include a new entrance gate which will reduce the shrub area to the front.

10.8 Conflicts between tree RPAs and development footprint

There is an impact on one group of shrubs and three trees.

Front gate entrance:

G2 – will have an impact on gate area to the front and this will be an impact which will require the removal of the shrub area. The shrubs are not seen from a public area and therefore will not be noticed.

T4 – will have an impact on the gate area and the impact will be over 20% and will require the removal of the tree. The tree is not easily seen from a public location and would not be noticed.

T5 – Will have a slight impact but will under 20% and is acceptable under BS5837:2012 S.7.4.2.3.

Garage and gym room:

T6 – The garage will have an impact on T6 which is only 6% and not an issue to the tree. There is also existing brickwork and hardstanding in this area which would further reduce the RPA of the tree. The tree is also impaired and has Ganoderma and a low canopy.

10.9 Infrastructure conflicts (utilities, lighting, CCTV, soakaways) and mitigation

No details have been given at this stage however, it will be necessary to have all services including drainage and foul water pipes. Full details will be required to ensure they can be included without harm to the retained trees.

Tree reference number	Species	Category grading	RPA m ²	Building Incursion (m ²)	Driveway Incursion (m ²)	TOTAL %	Significance	Comments
G2	Mixed species (<i>Mixed species</i>)	C2	149		39	26	Significant	Will require part of the shrub area to be removed. Will not be noticed from a public location.
T4	Holly (<i>Ilex sp.</i>)	B1	32		12	38	Significant	Will require removal of tree, tree is not easily seen
T5	Common beech (<i>Fagus sylvatica</i>)	C1	72		12	17	Insignificant	The root incursion is minimal and not deemed harmful to the tree.
T6	Common beech (<i>Fagus sylvatica</i>)	C1	415	26		6	Insignificant	The root incursion is minimal and not deemed harmful to the tree.

10.10 Canopy issues on the new development

Shading of buildings by trees can be a problem, particularly where there are rooms that require natural light such as living rooms, conservatories and kitchens with dining areas. The proposal should take the existing trees and their ultimate size and canopy density into account. Open spaces such as gardens and sitting areas should be designed to meet the normal requirement for direct sunlight for at least a part of the day.

There are no shading issues to this scheme.

10.11 Tree works

Tree reference number	Species	Category grading	Works required	For Development	For Arboriculture
G2	Mixed species (<i>Mixed species</i>)	C2	Part removal of shrub bed	Yes	
T4	Holly (<i>Ilex sp.</i>)	B1	Remove tree	Yes	
T6	Common beech (<i>Fagus sylvatica</i>)	C1	Crown lift 5m	Yes	Yes

10.12 Potential tree removal to facilitate the development

It will be necessary to partly remove the shrubs within G2 and will not require mitigation measures. It will also require the removal of T4 which is a Category B tree.

10.13 Mitigation of tree loss and new planting

It should be possible to replace T4 with two new trees at the front of the site.

10.14 Potential for future direct damage

There will be no future direct damage from this scheme and all mitigation measures will be in place.

10.15 Future seasonal nuisances

Leaf fall will occur this is not seen as an issue to the overall scheme.

11. Concluding statement

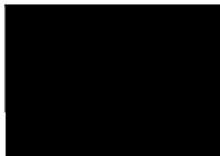
Subject to adherence to the Arboricultural Method Statement and Tree Protection Plan, the proposed development is considered acceptable in arboricultural terms. Retained trees of moderate to high value (Category A and B) can be protected throughout the build, and a mitigation strategy will offset any unnecessary tree losses. Ongoing arboricultural supervision is essential to ensure compliance and successful tree retention.

The AMS will require:
Tree Planting Proposal

(Reason): if accepted by the local authority, the AMS will bind the developer to the thinking of the Standard, ensuring the retention of the good quality trees.

This concludes the report. If I can be of further assistance, please do not hesitate to contact me.

Signature:



Date: 26th March 2026

Reuben Hayes M.Arbor.A; CMgr MCMI
Managing Director for and on behalf of Apex Environmental Limited

12. Heads and terms of Arboricultural Method Statement

12.1 Tree Protection Plan

The Tree Protection Plan has been produced in accordance with *BS5837:2012 – Trees in relation to design, demolition and construction – Recommendations*, Section 5.5. The plan has indicated the location of protection barriers to be erected, which will form the construction exclusion zone around the retained trees. It also shows the extent and type of ground protection, where necessary. All measurements for the protective fencing and temporary access within the construction exclusion zone have been indicated. Other considerations included are site construction access, contractors' car parking and storage areas.

12.2 Phasing of onsite works

The phasing of the works will take place as follows:

Pre-Construction

- a. Pre-contract meeting between architect, site manager, arboricultural consultant and ecologist
- b. Tree works
- c. Installation of tree protection fencing
- d. Install protective signage
- e. Siting of welfare units and storage of materials
- f. Toolbox talk and contractor briefing from arboricultural consultant

Construction

- g. Demolition of existing structures
- h. Excavations near RPA of trees
- i. Erection of scaffolding
- j. Construction in proximity to existing trees
- k. Undertaking and completing construction works
- l. Periodic ACoW supervision and site visits
- m. Undertaking and supervision of all final service works

Post-Construction

- n. Undertaking external landscape works to areas outside of the tree protection fencing
- o. Removal of tree protection fencing
- p. Undertaking external landscaping works within the tree protection fencing area
- q. Sign off from the construction company and arboricultural consultant (no further involvement is required)

13. Arboricultural terms

- 13.1 An ‘arboriculturist’ is a person who has, through relevant education, training and experience, gained recognized qualifications and expertise in the field of trees.
- 13.2 A ‘competent person’ is someone who has had training and experience relevant to the matter being addressed and an understanding of the requirements of the particular task in question. A competent person is expected to be able to advise on the best means by which the recommendations of *BS5837:2012 – Trees in relation to design, demolition and construction – Recommendations* may be implemented.
- 13.3 A ‘tree survey’ in the context of planning and development is taken to mean an assessment of the tree stock on site (or within the area shown where appropriate), as individuals or groups. (This is undertaken independent of and prior to any knowledge of a scheme being produced). Management recommendations in the tree survey schedule reflect the structural and physiological condition of the trees only. It is essential that the trees are assessed objectively and without reference to site layout proposals.
- 13.4 The ‘construction’ is a site-based operation with the potential to affect existing trees.
- 13.5 A ‘Root Protection Area’, or ‘RPA’, is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree’s viability, and where the protection of the roots and soil structure is treated as a priority. The RPA area is worked out on a mathematical basis. It is listed in appendix III
- 13.6 ‘Construction Exclusion Zone’, or ‘(CEZ)’, is based upon the RPA and forms the exclusion zone to which access is prohibited during the project phase.
- 13.7 A ‘Tree Constraints Plan’, or TCP, is a scaled plan prepared by an arboriculturist showing the RPA and the accurate canopy spread of a tree, along with information to identify the tree by reference to a survey schedule. It will also identify any under and above ground constraints. The author of this report will produce this using AutoCAD.

- 13.8 An 'Arboricultural Impact Assessment', or 'AIA', is a study or report undertaken by the project arboriculturist. It is a detailed evaluation of the direct and indirect effects of the proposed development on the tree(s) and the potential future maintenance of the tree(s). Where necessary, it recommends mitigation. The assessment takes account of the effects of any tree loss required to implement the design, and any potentially damaging activities that are proposed in the vicinity of retained trees.
- 13.9 An 'Arboricultural Method Statement', or 'AMS', is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.
- 13.10 A 'Tree Protection Plan', or 'TPP', is a scale plan that is superimposed on a layout plan. It is based on the topographical survey, showing all hard surfacing and other existing structures within the RPA. The plan indicates the precise location of protective barriers that need to be erected in order to form a construction exclusion zone around the retained trees.
- 13.11 Other plans and documents may be referred to and annexed where appropriate.
- 13.12 'Access facilitation pruning' is a one-off tree pruning operation, the nature and effects of which are without significant adverse impact on the trees' physiology or amenity value, which is directly necessary to provide access for operations on site.
- 13.13 'Services' are any above or below ground structure or apparatus required for utility provision. Examples include drainage, gas supplies, ground source heat pumps, CCTV and satellite communications.
- 13.14 'Stem' is the principal above-ground structural component(s) of a tree that supports its branches.
- 13.15 'Structures' are manufactured objects, such as a building, carriageway, path, wall, service runs, and built or excavated earthworks.
- 13.16 A 'veteran tree' is recognized by a criterion set by *BS2998:2010, Tree Work – Recommendations*. It must show signs of biological, cultural or aesthetic value that are characteristic of, but not limited to, individuals surviving beyond the typical age range for the species concerned.

Appendix I – Tree survey

Arboricultural Impact Assessment BS5837:2012

16 Milton Rd, Repton, Derby, DE65 6FZ

Ref: AEL-19446

Reuben Hayes



Tree survey undertaken to BS5837:2012 *Trees in relation to construction – recommendations*

Tree No.	Tree identification method in sequential order – TXXX=Existing trees, GX=Group of trees, HX=Hedgerow	
Species	Species	
Height in (m)	Approximate height of tree in metres	
DBH in (mm)	Stem diameter in millimetres taken at 1.5 metres above ground level. AV=average diameter (see appendix III)	
Branch spread in (m) N - E - S - W	Branch spread in metres reflecting the spread at the four principal compass points. N/A= Not applicable in woodland settings	
Existing height above ground in (m)	Height in metres of crown clearance above existing ground level. To include first significant branch and direction of growth (e.g. 2.5 – N) Height of lower form of Canopy to inform current ground clearance, crown/stem ratio and shading	
Life stage	Age classification (Y=young, SM=semi-mature, EM=early-mature, M=mature, LM=late-mature, OM=over-mature)	
Est. remain years	Approximate years remaining (+40=minimum of 40 years, +20=minimum of 20 years, +10=minimum of 10 years, <10 less than 10 years)	
General observations	Condition of tree (good, fair, poor, dead), structural and/or physiological condition, and/or preliminary management recommendations	
Preliminary management recommendations	Works needed in order to retain tree in current setting or where works would be needed in order to facilitate development	
Physical condition and structural condition	Physiological condition (good, fair, poor, dead), to include structural defects such as the presence of any decay, fungal issues, pathogens and defects)	
RPA in (m ²)	Area directly calculated from the DBH measurement (single stem/multiple stem variant, as outlined within the Standard, see appendix III)	

Ref.	Species	Measurements	Survey Notes	Retention Category	RPA	Condition
G1	Mixed species (Mixed species)	Height (m): 4 Stem Diam(mm): 100 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Shrub bed of mainly laurel and some holly	C2	Area: 82 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Moderate Inspection Limitations: None Bat Habitat: None
G2	Mixed species (Mixed species)	Height (m): 4 Stem Diam(mm): 100 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Shrub bed of mainly laurel and some holly	C2	Area: 149 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Moderate Inspection Limitations: None Bat Habitat: None

G3	Holly (<i>Ilex sp.</i>)	Height (m): 12 Stem Diam(mm): 200 Spread (m): 2N, 2E, 2S, 2W Crown Clearance (m): 0 Lowest Branch (m): 0 Life Stage: Early Mature Rem. Contrib.: 20+ Years	Growing under the canopy of the beech tree	C2	Area: 55 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Low Inspection Limitations: None Bat Habitat: None
T1	False acacia (<i>Robinia pseudoacacia</i>)	Height (m): 9 Stem Diam(mm): 220 Spread (m): 1N, 2.5E, 3S, 4W Crown Clearance (m): 1 Lowest Branch (m): 1(W) Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Growing in the hedge line, possible self set or sucker tree.	B1	Radius: 2.6m. Area: 21 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Good Inspection Limitations: None Bat Habitat: None
T2	False acacia (<i>Robinia pseudoacacia</i>)	Height (m): 8 Stem Diam(mm): 180 Spread (m): 1.5N, 2.5E, 2S, 3.5W Crown Clearance (m): 3 Lowest Branch (m): 2(W) Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Growing in the hedge line, possible self set or sucker tree.	B1	Radius: 2.2m. Area: 15 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Good Inspection Limitations: None Bat Habitat: None

T3	Common beech (<i>Fagus sylvatica</i>)	Height (m): 12 Stem Diam(mm): 370 Spread (m): 6N, 3E, 2S, 3W Crown Clearance (m): 2 Lowest Branch (m): 1.5(N) Life Stage: Early Mature Rem. Contrib.: 40+ Years	Growing in the hedge line, close to the entrance minor deadwood in canopy	B1	Radius: 4.4m. Area: 61 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Good Inspection Limitations: None Bat Habitat: None
T4	Holly (<i>Ilex sp.</i>)	Height (m): 7 2 stems (mm): 200, 180 Spread (m): 1.5N, 2E, 2S, 2.5W Crown Clearance (m): 1 Lowest Branch (m): 1(W) Life Stage: Semi Mature Rem. Contrib.: 40+ Years	Growing in the shrub bed	B1	Radius: 3.2m. Area: 32 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Good Inspection Limitations: None Bat Habitat: None
T5	Common beech (<i>Fagus sylvatica</i>)	Height (m): 12 Stem Diam(mm): 400 Spread (m): 2.5N, 3E, 3S, 5W Crown Clearance (m): 2.5 Lowest Branch (m): 2(W) Life Stage: Early Mature Rem. Contrib.: 20+ Years	Growing in the shrub bed major deadwood in upper canopy	C1	Radius: 4.8m. Area: 72 sq m.	Other Reference: Physiological Condition: Fair Structural Condition: Fair Public Amenity Value: Good Inspection Limitations: None Bat Habitat: None

T6	Common beech (<i>Fagus sylvatica</i>)	Height (m): 17 Stem Diam(mm): 960 Spread (m): 9.5N, 9E, 8S, 9.5W Crown Clearance (m): 1 Lowest Branch (m): 3(E) Life Stage: Mature Rem. Contrib.: 10+ Years	Canopy in good health but low and close to the house. Significant Ganoderma bracket at base of tree. Tree forks at 3m to create three main stems with included bark areas Fungus: Ganoderma spp	C1	Radius: 11.5m. Area: 415 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Poor Distance1: 8.622 Public Amenity Value: Low Inspection Limitations: None Bat Habitat: None
T7	False acacia (<i>Robinia pseudoacacia</i>)	Height (m): 17 2 stems (mm): 410, 420 Spread (m): 8N, 8E, 1S, 4W Crown Clearance (m): 2 Lowest Branch (m): 2.5(N) Life Stage: Early Mature Rem. Contrib.: 10+ Years	Twin stem tree from 1m, deadwood in canopy of tree, roots are puckering in the neighbours garden	C1	Radius: 7.0m. Area: 154 sq m.	Other Reference: Physiological Condition: Fair Structural Condition: Fair Public Amenity Value: Low Inspection Limitations: None Bat Habitat: None



T8	Holly (<i>Ilex sp.</i>)	Height (m): 7 2 stems (mm): 110, 110 Spread (m): 1N, 1.5E, 2.5S, 2W Crown Clearance (m): 2.5 Lowest Branch (m): 2.5(S) Life Stage: Semi Mature	Growing in the neighbours garden but on the property links.	C1	Radius: 1.9m. Area: 11 sq m.	Other Reference: Physiological Condition: Good Structural Condition: Good Public Amenity Value: Low Inspection Limitations: None Bat Habitat: None
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Appendix II – Photographs



Image 1 – Showing G2 from the driveway



Image 2 – Showing G2 and the Beech tree and location of new gate area



Image 3 – Showing G1 with shrubs to the front



Image 4 – Showing T3 at the front



Image 5 – Showing T4 which will need to be removed



Image 6 – Showing T5 at the front of the property



Image 7 – Showing Ganoderma bracket at the base of T6



Image 8 – Showing T6

Appendix III – Tree categorisation table (BS5837:2012)



Category and definition	Criteria (including subcategories where appropriate)	Identification on plan
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.	- 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 their trees nearby, or very low quality trees suppressing adjacent trees of better quality.	
<i>(note: Category U trees can have existing or potential conservation value which it might be desirable to preserve)</i>		
Trees to be considered for retention		
	1. Mainly arboricultural qualities	
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)	
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), which 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	
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	
	2. Mainly landscape qualities	
	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	
	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.	
	3. Mainly cultural values, including conservation	
	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	
	Trees with material conservation or other cultural value	
	Trees with no material conservation or other cultural value	

Appendix IV – Bibliography

British Standards Institution (2010), *BS3998 Tree Work - Recommendations*

British Standards Institution (2012), *BS5837 Trees in relation to design, demolition and construction - Recommendations*

Appendix V – About the author

Author of this report: Mr Reuben Hayes, M.Arbor.A; CMgr MCMI

Qualifications

Quantified Tree Risk Assessment, 2018 – QTRA
CMI Management and Leadership (Level 5) – May 2015
Professional Tree Inspection, 2009 – Lantra
Higher National Diploma, Arboriculture (HND), July 2003 – Warwickshire College
National Diploma (Tree Management and Arboriculture), 2000 – Warwickshire College

Experience

Apex Environmental Ltd: May 2013 – Present
Cannock Chase Council: July 2010 – 2024
RJH Silvicultural and Arboricultural Services Ltd: 2008 – 2010
London Borough of Camden: January 2005 – July 2010
Three Rivers District Council: March 2003 – January 2005
Forestry Commission: 1997 – 1998
National Trust

Membership of professional bodies

Professional Member of the Arboricultural Association
Professional Member of Consulting Arborist Society (CAS)
Associate Member of the Institute of Chartered Foresters
Fully accredited Chartered Manager of Chartered Management Institute (CMI)
Member of Institute of Directors (IoD)

Apex Environmental Ltd

A: 3 Lawrence Way, Lichfield, WS13 6RD

T: 0121 249 1235

E: info@ael-treeconsultants.co.uk

W: www.ael-treeconsultants.co.uk

Author: Reuben Hayes, CMgr MCMI, M.Arbor.A