

The West Midlands Rail Freight Interchange Order 201X
Technical Appendix 12.7 - Arboricultural Assessment
Regulation 5(2)(a)
FPCR - June 2018



**West Midlands
Interchange**

Four Ashes Ltd



Four Ashes Limited

West Midlands Interchange

Land south of the A5 and west of Junction 12 of the M6

Arboricultural Assessment

APPENDIX 12.7

June 2018

FPCR Environment and Design Ltd

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1.0 INTRODUCTION

- 1.1 This report has been prepared by FPCR Environment and Design Limited on behalf of Four Ashes Limited to present the findings of an Arboricultural Assessment and survey of trees located on an area of land south of the A5 and west of Junction 12 of the M6 in Staffordshire (hereafter referred to as 'the Site'). The Site was centered on Ordnance Survey Grid Ref SJ 919 095a and is shown in Figure 1.
- 1.2 The surveys were carried out throughout August 2016 in several visits and the weather at the time of the assessments was dry and mostly warm, clear and with good amounts of sunshine. Further surveys to record tree cover within the updated red line, to include possible offsite highway works were carried out in March 2018.
- 1.3 The tree survey and assessment of existing trees has been carried out in accordance with guidance contained within British Standard 5837:2012 *'Trees in Relation to Design, Demolition and Construction - Recommendations'* (hereafter referred to as BS5837). The guidelines set out a structured assessment methodology to assist in determining which trees would be deemed either as being suitable or unsuitable for retention. The guidance also provides recommendations for considering the relationship between existing trees and how those trees may integrate into designs for development; demolition operations and future construction processes so that a harmonious and sustainable relationship between any retained trees and built structures can be achieved.
- 1.4 Trees have been considered following an iterative process into one of four categories (U, A, B & C) as outlined in BS5837. The purpose of the categorisation method is primarily to identify the arboricultural quality and value of the existing tree stock following which informed decisions can be made concerning which trees should be retained in the event of development occurring. The categories also provide an indication of a trees importance in relation to the Study Area and the local landscape as well as their arboricultural merit all of which assist in the decision-making process.
- 1.5 The purpose of the report is therefore to present the results of an assessment of the existing trees' arboricultural value, based on their current condition and quality and to provide an assessment of impact arising from proposals to develop the site. The survey has focused on any trees present within or bordering the Site that may potentially be affected by the future proposals or will pose a constraint to the proposed development.

Description of the Development

- 1.6 This report has been produced to accompany a planning application for a proposed development that consists of the following:
- An intermodal freight terminal with connections to the West Coast Main Line, capable of accommodating up to 10 trains per day and trains of up to 775m long and including container storage, HGV parking, rail control building and staff facilities;
 - Up to 743,200 square metres of rail served warehousing and ancillary service buildings;
 - New road infrastructure and works to the existing road infrastructure;

- Demolition of existing structures and structural earthworks to create development plots and landscape zones; and
- Strategic landscaping and open space, including alterations to public rights of way and the creation of new ecological enhancement areas and publicly accessible open areas.

Description of Application Area and an Overview of Tree Cover

- 1.7 The Site is located at Four Ashes, north of Wolverhampton and south of the small settlement of Penkridge, Staffordshire and is approximately 743,200 sq m of existing agricultural, grass and scrubland, adjacent to the West Coast Mainline and west of Junction 12 of the M6.
- 1.8 The western extent of the Site meets with the A449 Stafford Road which runs in a north to south orientation extending from Station Drive in the south as far as the A5 to the north at the Gailey roundabout. The northern boundary is defined by the A5 Watling Street where it extends as far as Junction 12 of the M6 motorway. The southern boundary is defined by Straight Mile and a section of the Staffordshire and Worcester canal which runs between Calf Heath and Four Ashes. The eastern extent stretches as far as the M6 motorway, Stable Lane and Woodlands Lane.
- 1.9 Within the Site is an active quarry in the eastern portion and Calf Heath Reservoir which sits on its eastern boundary. The reservoir is one of two such features to either side of the junction with the M6 motorway serving as balancing ponds from the original construction of the road. The reservoir and quarry are bounded on the eastern side by mature mostly broadleaved woodland and some younger plantation woodland comprising both conifer and deciduous species.
- 1.10 Bisecting the Site in an east west orientation is Vicarage Road which joins with Straight Mile where it turns into Station Road leading down to the junction with the A449. To the south of Vicarage Road and Straight Mile are a number of large fields used for grazing horses and arable crops. Heath House Farm is located off Vicarage Road, towards the eastern end.
- 1.11 The Staffordshire and Worcester Canal passes through the Site from the southern extent as far north as the A5 on the northern boundary and beyond. The canal has public access along the tow path and is lined with many trees most of which are alder *Alnus glutinosa* and English oak *Quercus robur*.
- 1.12 Within the centre of the Site is Calf Heath Wood, a predominantly coniferous plantation but for a number of mature English oak around the boundaries. The south-western portion comprises silver birch.
- 1.13 An active mainline railway passes through the Site in the western portion, orientated north-south and edged with sporadic tree cover on the embankments comprising predominantly of common ash *Fraxinus excelsior*.
- 1.14 Although outside of the Site a large chemical works and a mixed use industrial estate complex is situated in the south-western portion of the area. Access to the chemical works is gained from the A449.
- 1.15 There are a number of smaller woodland blocks within the Site as well as other associated water courses such as minor field ditches and drains and a small number of field ponds. The assessment Site also meets with the boundaries of several existing private residential properties in places distributed throughout the area.

- 1.16 The Site contains a number of Public Rights of Way (PROW).
- 1.17 The main land use is generally arable and horse grazing land with individual field compartments mostly being bounded by the network of well established, maintained native species hedgerows.
- 1.18 The amount of tree cover across the assessment Site would not be considered as extensive but was of a good covering and representative of a rural landscape with trees forming integral features of open countryside with distinctive characteristics depending on their growing environment, position and function. By far the highest concentrations of more significant tree cover were the frequently occurring mature English oak associated with the field boundaries and the well treed edges to the canal. Calf Heath Wood, and the several other woodland parcels were also notable as being important features of the tree cover within the local landscape. Further incidental individual trees and mixed species groupings of trees were also regularly found associated with the farms, existing residential boundaries abutting the Site, field ponds and other minor water courses / ditches, railway embankments and road sides.
- 1.19 The notable arboricultural features were the numerous mature, large and sometimes free-standing English oak, situated around the boundaries of and open grown within the field compartments, several of which were of veteran status and were a strong characteristic element of the local area. These trees were found to be in varying conditions as would be typically expected of those in such a growing environment having seen little in the way of any targeted management.
- 1.20 Also present within the assessment Site was a confirmed native black poplar *Populus nigra* subsp. '*betulifolia*'. Further details are given within the Results section of this report.
- 1.21 Examples of other species present were common ash *Fraxinus excelsior*, white willow *Salix alba*, Norway maple *Acer platanoides*, hornbeam *Carpinus betulus*, crab apple *Malus sylvestris*, mountain ash *Sorbus aucuparia*, hybrid black poplar *Populus x canadensis*, wild cherry *Prunus avium*, turkey oak *Quercus cerris*, holly *Ilex aquifolium*, sweet chestnut *Castanea sativa*, common walnut *Juglans regia*, Lombardy poplar *Populus nigra* var. *Italica*, Lawson cypress *Chamaecyparis lawsoniana*, Leyland cypress *Cupressocyparis leylandii*, blackthorn *Prunus spinosa*, hazel *Corylus avellana*, crack willow *Salix fragilis*, elder *Sambucus nigra*, goat willow *Salix caprea*, aspen *Populus tremula*, whitebeam *Sorbus aria*, field maple *Acer campestre*, elm *Ulmus* spp., hawthorn *Crataegus monogyna*, damson *Prunus insititia*, robinia *Robinia pseudoacacia*, balsam poplar *Populus trichocarpa*, Norway spruce *Picea abies*, scots pine *Pinus sylvestris*, Austrian pine *Pinus nigra* ssp *Nigra*, sitka spruce *Picea sitchensis*, grey poplar *Populus x canescens*, common lime *Tilia x europaea*, sycamore *Acer pseudoplatanus*, beech *Fagus sylvatica*, horse chestnut *Aesculus hippocastanum* and silver birch *Betula pendula*.

Statutory Constraints

- 1.22 It is understood following consultation with the Local Planning Authority, South Staffordshire District Council (SSDC), that there are no tree preservation orders that would apply to any trees present on, or in close proximity to the assessment Site and therefore no statutory constraints would apply to the development in respect of trees in this regard at the time of writing although part of the Site is within a Conservation Area, and therefore statutory constraints apply to the development in respect of trees. Further details of the Conservation Area and which trees would be within the designation are given in the Results section of this report.

1.23 It must be understood that should any specific tree protection be required, this would need to be separately considered where needs arise prior to the commencement of construction activity following approval of the application. This should be in the form of an Arboricultural Method Statement produced in accordance with guidance in BS5837 and is beyond the scope of this Arboricultural Assessment.

2.0 METHODOLOGY FOR TREE SURVEY INCLUDING VETERAN TREE ASSESSMENT

2.1 The survey of trees has been carried out in accordance with the criteria set out in Chapter 4 of BS5837. The survey has been undertaken by a suitably qualified and experienced arboriculturalist and has recorded information relating to all those trees within the Site and those adjacent to the Site which may be of influence to any proposals. Trees were assessed for their arboricultural quality and benefits within the context of the proposed development in a transparent, understandable and systematic way.

2.2 Trees have been assessed as groups or woodlands where it has been determined appropriate. The term group has been applied where trees form cohesive arboricultural features either aerodynamically, visually or culturally including biodiversity or habitat potential for example parkland or wood pasture. An assessment of individual trees within groups or woodlands has been made where a clear need to differentiate between them, for example, in order to highlight significant variation between attributes including physiological or structural condition or where a potential conflict may arise.

2.3 Trees have been divided into one of four categories based on Table 1 of BS5837, '*Cascade chart for tree quality assessment*'. For a tree to qualify under any given category it should fall within the scope of that category's definition (see below). Category U trees are those which would be lost in the short term for reasons connected with their physiology or structural condition. They are, for this reason not considered in the planning process on arboricultural grounds. Categories A, B and C are applied to trees that should be of material considerations in the development process. Each category also having one of three further sub-categories (i, ii, iii) which are intended to reflect arboricultural, landscape and cultural or conservation values accordingly.

2.4 **Category (U) – (Red):** Trees which are unsuitable for retention and are 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 within this category are:

- Trees that have a serious irremediable structural defect such that their early loss is expected due to collapse and includes trees that will become unviable after removal of other category U trees.
- Trees that are dead or are showing signs of significant, immediate or irreversible overall decline.
- Trees that are infected with pathogens of significance to the health and/ or safety of other nearby trees or are very low quality trees suppressing adjacent trees of better quality.
- Certain category U trees can have existing or potential conservation value which may make it desirable to preserve.

- 2.5 **Category (A) – (Green):** Trees that are considered for retention and are of high quality with an estimated remaining life expectancy of at least 40 years with potential to make a lasting contribution. Such trees may comprise:
- Sub category (i) trees that are particularly good examples of their species, especially if rare or unusual, or are essential components of groups such as formal or semi-formal arboricultural features for example the dominant and/or principal trees within an avenue.
 - Sub category (ii) trees, groups or woodlands of particular visual importance as arboricultural and / or landscape features.
 - Sub category (iii) trees, groups or woodlands of significant conservation, historical, commemorative or other value for example veteran or wood pasture.
- 2.6 **Category (B) – (Blue):** Trees that are considered for retention and are of moderate quality with an estimated remaining life expectancy of at least 20 years with potential to make a significant contribution. Such trees may comprise:
- Sub category (i) trees that might be included in category A but are downgraded because of impaired condition for example the presence of significant though remediable defects, including unsympathetic past management and storm damage.
 - Sub category (ii) 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.
 - Sub category (iii) trees with material conservation or other cultural value.
- 2.7 **Category (C) – (Grey):** Trees that are considered for retention and are of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 150mm. Such trees may comprise:
- Sub category (i) unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.
 - Sub category (ii) trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value or trees offering low or only temporary / transient screening benefits.
 - Sub category (iii) trees with no material conservation or other cultural value.

Veteran Trees

- 2.8 Veteran trees are important components of the landscape, their importance can be for a number of reasons including that of their ecological, social, cultural and historic value. Veteran Trees are a material consideration within the planning process and their importance is specifically recognised within the National Planning Policy Framework 2012. Should any veteran trees be identified during the initial level 2 BS5837 assessment further survey work of those trees and their communities will be required sufficient to meet planning application needs. From an ecological perspective, veteran trees provide a rare and specialist niche habitat and therefore preservation of this habitat is considered highly important.

2.9 Veteran trees and many of their associated specialised species are becoming increasingly rare within the landscape and therefore some veteran tree landscapes and their associated species are now protected, both nationally and Europe wide through the Natura 2000 Directive.

Methodology for the Assessment of Veteran Trees

2.10 The methodologies and assessment criteria used to determine whether or not any trees within the Site were of veteran status are as follows. The defining criteria for the definition of a veteran tree is one that has all or most of the following characteristics listed below based on the following references:

- *The estimated girth size categories used to determine a veteran tree by species has been according to 'Estimated girth size categories for Veteran Trees (from Rural Development Service 2006 Environmental Stewardship-Farm Environment Plan Guidance 009). See Table 1 below.*
- *Smith & Bunce (2004) and amended according to English Nature's Development of a Veteran Tree Site Assessment Protocol (Castle & Mileto 2005);*
- *Read 2000 (Veteran Trees – a guide to good management, Veteran Tree Initiative and English Nature (now Natural England);*
- *Ancient Tree Hunt (Owen and Alderman 2008);*
- *Ancient and Other Veteran Trees: Further Guidance on Management (editor David Lonsdale 2013 and Reed)*

2.11 The veteran tree assessment undertaken at the Site has been carried out using an adaptation of English Nature's Specialist Survey Method (SSM). The adapted system was originally designed by Treework Environmental Practice for English Nature (now Natural England) for collecting data on the associated features and habitat attributes of veteran trees. Crucially this survey method is designed to be adaptable by having a range of levels and detail of survey information.

2.12 The survey for veteran trees at the Site has therefore been at SSM Level 2, which is designed for the recording of essential veteran tree information but does not include the recording and interpreting of veteran tree habitats or signs of associated/dependant organisms yet will, where present, make reference to potential habitat to support such specialist associations and indicate where further specialist survey work would be required. Such data should only be recorded and interpreted by a suitably qualified Ecologist or Entomologist.

2.13 The Level 2 assessment collects a minimum level of information which would allow determination of veteran status but future management recommendations will need to be determined following a more detailed assessment and would take into consideration some of the more recent research work and guidance for the management of veteran trees contained within *Ancient and Other Veteran Trees: Further Guidance on Management* (Lonsdale and Reed, 2013).

2.14 The term 'veteran' refers to those trees that display habitat features associated with ancient trees. This term can include both ancient trees and trees that display these features prior to the ancient stage. It is also used to describe the habitat features themselves (as in 'veteran features').

2.15 Table 1, below, shows the estimated girth size categories that have been used to determine a Veteran tree by species.

Table 1: Estimated girth size categories for Veteran Trees (from Rural Development Service 2006 Environmental Stewardship-Farm Environment Plan Guidance 009)

Tree Girth (minimum)	Diameter at Breast Height (dbh) – (minimum)	Species
190 cm	60cm	Birch species and Hawthorn
240cm	75cm	Field Maple, Rowan, Grey and Goat Willow, Hornbeam, Cherry and Alder
310cm	100cm	Oak species, Ash, Scots Pine, Yew and Elm species
470cm	150cm	Lime species, Sycamore, Horse Chestnut, Poplar species, other Pine species, Beech, Sweet Chestnut and White and Crack Willows

List of Veteran Tree CharacteristicsHow to recognise an ancient and or veteran tree:

- 2.16 According to the above listed guidance's in paragraph 2.10, the defining criteria for a veteran tree is one which shows the required amount and quality of physical attributes, characteristics and features pertaining to veteran trees as listed below.
- biological, aesthetic or cultural interest, because of its great age (NB “the biological interest is largely derived from the development of a diverse range of habitats associated with dead and decaying wood” – source *Ancient and other veteran trees: further guidance on management* (editor David Lonsdale 2013),
 - a growth stage that is described as ancient or post-mature,
 - a chronological age that is old relative to others of the same species,
 - a girth that is very large for the species, allowing for the local growing conditions (NB for the size-based attributes these would depend on the tree species concerned, together with soil and climate but the following criteria apply generally to oak; trees with a diameter at breast height of more than 1.0 m (girth 3.2 m) are potentially interesting and trees with a diameter of more than 1.5 m (girth 4.7 m) are valuable with respect to conservation).
 - extensive decay or hollowing in exposed parts of the central wood;
 - a crown structure that, for the species concerned, is characteristic of the latter stages of life;
 - a crown that has undergone retrenchment, i.e. it has become smaller (owing to dieback and breakage) since maturity.

- 2.17 Other key attributes of Veteran trees (i.e. the more of these a tree has, the stronger the indication that it is a veteran)
- Major trunk cavities or progressive hollowing
 - Naturally forming water pools
 - Decay holes
 - Physical damage to trunk
 - Bark loss
 - Large quantity of dead wood in the canopy
 - Sap runs
 - Crevices in the bark, under branches or on the root plate sheltered from direct rainfall
 - Fungal fruiting bodies (e.g. from heart-rotting species)
 - High number of interdependent wildlife species
 - Epiphytic plants (if these are abundant or include rare species)
 - An old look
 - High aesthetic interest.
- 2.18 Other attributes which can additionally apply are:
- A pollard form or other form indicating previous management
 - Cultural/historic value
 - A prominent position in the landscape
- 2.19 Having a large stem diameter for the species alone does not qualify a tree as being veteran. In order for it to qualify as a veteran tree, mature trees are assessed as to whether they possess either three or more of the characteristic features listed above or significant signs of one or more of the additional associated attributes.

Tree Schedule

- 2.20 Appendix A presents details of any individual trees, groups, hedgerows and woodlands found during the assessment including heights, diameters at breast height, crown spread (given as a radial measurement from the stem), age class, comments as to the overall condition at the time of inspection, BS5837 category of quality and suitability for retention and the root protection area.
- 2.21 General observations particularly of structural and physiological condition for example the presence of any decay and physical defect and preliminary management recommendations have also been recorded where appropriate.

Hedgerows

- 2.22 For the purposes of this assessment, a hedgerow is described as any boundary line of trees or shrubs less than 5m wide at the base and are managed under a regular pruning regime. Hedgerows and substantial internal or boundary hedges (including evergreen screens) have been recorded including lateral spread, height and stem diameter(s). Where trees are present within a hedgerow that are significantly different in character from the remainder, these have been identified and recorded separately.
- 2.23 A tree survey in accordance with BS5837 does not assess hedgerows against the Hedgerow Regulations 1997 or specifically from an ecological perspective, and is outside the scope of this assessment.

Other Considerations

- 2.24 It may be necessary during detailed design to undertake further assessment and accurate positioning of woody species within hedgerows and tree groups to assist structural calculations for foundation design of structures in accordance with current building regulations. Knowledge of soil type was not known at the time of this tree assessment. If a current soil survey of the Site has taken place then it must be read in conjunction with the results of the tree survey.
- 2.25 The exact position of individual trees or species included as part of a tree group, hedgerow or woodland should be checked and verified on Site prior to any decisions for foundation design, tree operations or construction activity being undertaken. Further survey work would be required for calculating foundation depths in accordance with NHBC Chapter 4.2 Building near Trees.

Conditions of Tree Survey

- 2.26 The survey was completed from ground level only and from within the boundary of the Site. Aerial tree inspections or the internal condition of the stem/s or branches were not undertaken at this stage as this level of survey is beyond the scope of the initial assessment. Evaluation of tree condition given within this assessment applies to the date of survey and cannot be assumed to remain unchanged. It may be necessary to review these within 12 months, in accordance with sound arboricultural practice.

Site Plans

- 2.27 Figure 1 (drawing no. 7121-A-01) identifies the Site area considered as the application boundary.
- 2.28 The individual positions of trees and groups have been shown on the Tree Survey Plan, Figure 2 (drawing no's 7121-A-0.21, 02.2 and 02.3). The positions of trees are based on a topographical / land survey, as far as possible, supplied by the client. Where topographical information has not identified the position of trees and hedgerows, their relation to any existing surrounding features has been plotted using a global positioning system and aerial photography to provide approximate locations. The crown spreads and root protection areas have been shown on the plan. Shade patterns have not been included but can be provided upon request.

- 2.29 As part of the Arboricultural Impact Assessment, a Tree Retention Plan, Figure 3 (drawing no. 7121-A-03.1, 03.2 and 03.3) has been prepared to show the proposed layout in relation to the existing tree cover allowing an assessment of any potential conflicts. The plan also identifies which trees would be required to be removed or retained as part of the proposed development.

Tree Constraints and Root Protection Areas

- 2.30 Below ground constraints to future development are represented by the area surrounding the tree containing sufficient rooting volume for the specimen to have the best chance of survival in the long term which is identified as the root protection area (RPA). The RPA has been calculated in accordance with section 4.6 of BS5837 and requires suitable protection in order for the tree to be successfully incorporated into any future scheme. Where applicable the shape of the Root Protection Area has been modified to take into account the presence of any nearby obstacles (existing or past) which may have restricted root growth and the likely root distribution i.e. the presence of hard standing, structures and underground apparatus.
- 2.31 Where groups of trees have been assessed, the Root Protection Area has been shown based on the maximum sized tree in any one group and so may exceed the Root Protection Area required for some of the individual specimens within the group. Further detailed inspection of the individual trees forming a group may be required where development impacts upon the group.
- 2.32 Above ground constraints such as the current and potential crown spread of the trees and an illustration of the shade pattern (where appropriate) have been considered and identified within the Tree Survey Plan and Tree Retention Plan indicates their potential area of shading influence.

3.0 RESULTS

- 3.1 A total of three hundred and twenty-eight individual trees, one hundred and eighty-three groups of trees, one hundred and eight hedgerows and eight woodlands were surveyed as part of the Arboricultural Assessment.
- 3.2 Trees were surveyed as individual trees and groups of trees where examples are clearly present as per the description. Refer to the following:
- Figure 2 – Tree Survey Plan (three drawings: 7121-A-02.1, 02.2 and 02.3)
 - Appendix A – Tree Schedule for full details of the trees included in this assessment.
- 3.3 Table 2 below summarises the trees assessed.
- 3.4 To present the results of the survey, the recorded tree cover has been separated into broad areas relative to the position where it occurs in the Site under sub-headed sections following Table 2. The sections have been described travelling from west to east across the application area. The paragraphs provide an overview on the tree cover for each of the broad areas and has described some of the significant arboricultural features present either owing to their physical condition and / or arboricultural and aesthetic value and for their landscape contribution, although for full details of the trees, hedges and woodlands present, refer to the Tree Schedule in Appendix A.
- 3.5 Hedgerows have been described in a more general sense from an arboricultural perspective in paragraph 3.82 and 3.83. For further details on the hedgerows within the application area cross reference should be made to the Ecological Appraisal and Ecology Chapter within the Environmental Statement for findings of assessments against the Hedgerow Regulations and for nature conservation value. Such assessments are beyond the scope of the BS 5837 (2012) tree survey.

Results Summary

- 3.6 The amount of tree cover across the Site would be considered as moderate yet was distributed throughout the application area and representative of a rural landscape where farming predominates. By far the dominant species was English oak, which were associated with the extensive network of field boundary hedgerows, as either free standing examples and / or as parts of woodlands. Individual examples were mature and of sizable proportions, many exhibiting open forms as they had grown uninterrupted for many decades thus by virtue of these physical attributes were visually prominent where they occurred and existed as integral features and character forming components of the local landscape.
- 3.7 Importantly, several of the English oak specimens, a total of eleven, were found to be of veteran status as ‘true veteran trees’ as they possessed features pertaining to veteran trees. A further twenty-five specimens, all of which were also English oak, possessed stem diameters in excess of 1000mm, which in accordance with published research, would for their respective species be “interesting” and considered as ‘future’ or ‘transitional’ veteran trees.
- 3.8 Alongside the oak there was a broad range of other species types including evergreen varieties as well as broadleaved recorded both as individual specimens and groups. The varied species range across the Site complemented the rural environment and was typical of open countryside.

- 3.9 Riparian species were found associated with watercourses and water bodies which included alder and willow types.
- 3.10 Where groups of trees were present, these mostly consisted of more than one species and in some cases, had been designated as "groups" to describe naturally occurring and planted collections of trees such as linear belts, outgrown hedgerows and / or clusters of trees. The valued contribution of groups of trees make to the landscape would be of greater significance for their collective presence rather than for the value of the individual trees within them.
- 3.11 As expected with trees in this kind of agricultural semi-rural environment, individual examples regularly showed evidence of storm damaged branch material, dead wood and occasional branch failures where targeted tree management is often absent and therefore in certain circumstances may require application of appropriate remedial tree surgery to manage any risks of failure to acceptable levels in view of the potential for the public to be in close proximity to retained trees.
- 3.12 The nature and type of landscape has meant for the majority of trees little or no formal arboricultural management has been applied except in cases where farming operations or highway maintenance has necessitated the implementation of certain tree work to control the extent of growth to allow machinery and other vehicles easier access to cultivate fields, ensure safety of livestock, clear the brook course, maintain hedgerows, highway clearance pruning or for remediating damage from adverse weather conditions in some places. There was also some evidence of rudimentary branch removals for similar reasons which had resulted in unsympathetic application of tree management. For the most part however trees were found to have developed unobstructed and adapted naturally within their environment.
- 3.13 Across the Site, there were seventy individual category A trees (high quality and value), a high proportion of which were English oak and including the veteran trees, regarded as such for their good physical quality and considerable remaining life expectancy. Their potential to contribute to the Site in the future would be considered as high by virtue of the species and the ability to survive for many years. There were also seventeen groups of category A trees, which included six of the eight woodlands.
- 3.14 There were also one hundred and thirty-eight individual category B trees and one hundred groups of category B trees (moderate quality and value) which reflects the importance these trees have in terms of visual contribution to the local area also alongside the category A trees.
- 3.15 Combined, both category A and B trees far outnumbered the total number of category C trees (low quality and value) which demonstrates the overall high quality, condition and physical contribution to the local landscape of trees across the Site when compared to the presence of lower grade material.
- 3.16 Alongside the several category A specimens, trees of category B status carry equal importance in terms of their suitability for retention as that of category A specimens, but trees assigned a category B status are downgraded for reasons relating to their slightly impaired physical condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage) which can be corrected through the application of management.
- 3.17 There was one confirmed native black poplar present, which has been discussed separately further on in the report.

- 3.18 Throughout the assessment area was an extensive network of native species, well-established field boundary hedgerows, both of managed and unmanaged forms.

Table 2: Summary of Trees by Retention Category

	Individual Trees	Total	Groups of Trees	Total
Category U - Unsuitable	T21, T32, T35, T40, T114, T117, T131, T139, T147, T180, T181, T295, T300	13	G15, G96, G124, G158	4
Category A (High Quality / Value)	T11, T45, T68, T79, T85, T86, T87, T94, T95, T96, T98, T103, T112, T115, T116, T119, T129, T130, T153, T159, T163, T166, T167, T168, T169, T170, T171, T178, T186, T188, T189, T198, T201, T203, T204, T205, T207, T212, T215, T216, T217, T218, T222, T223, T224, T225, T262, T263, T266, T269, T271, T272, T273, T275, T276, T277, T279, T280, T281, T282, T283, T284, T286, T287, T288, T289, T290, T292, T294, T296, T309, T317, T318, T325	74	G99, G105, G132, G135, G138, G139, G141, G142, G143, G144, G145, G153, G157, G177, W1, W3, W5, W6, W7, W8	20
Category B (Moderate Quality / Value)	T2, T3, T4, T5, T6, T8, T9, T10, T12, T13, T14, T15, T16, T17, T18, T23, T24, T26, T27, T29, T30, T33, T34, T38, T39, T41, T44, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T69, T70, T72, T73, T74, T76, T77, T78, T80, T81, T82, T88, T89, T90, T93, T99, T100, T110, T111, T118, T120, T124, T125, T132, T133, T134, T137, T138, T141, T142, T143, T144, T151, T152, T154, T155, T164, T165, T173, T174, T175, T176, T182, T183, T185, T187, T190, T192, T193, T194, T196, T208, T210, T211, T213, T219, T220, T221, T227, T232, T233, T234, T236, T237, T238, T239, T240, T241, T244, T245, T246, T247, T248, T250, T252, T253, T254, T255, T256, T258, T260, T261, T264, T265, T267, T268, T270, T278, T293, T301, T302, T305, T306, T307, T308, T312, T313, T314, T315, T316, T320, T321, T324, T326, T328	153	G1, G5, G6, G7, G8, G10, G11, G13, G16, G17, G18, G20, G21, G22, G23, G24, G26, G27, G28, G29, G30, G31, G32, G33, G34, G35, G36, G37, G39, G40, G41, G42, G43, G44, G45, G46, G49, G50, G51, G52, G54, G55, G56, G58, G59, G60, G65, G66, G68, G73, G75, G78, G79, G80, G81, G82, G84, G85, G86, G88, G92, G94, G95, G97, G98, G100, G103, G104, G107, G108, G110, G112, G117, G119, G122, G123, G126, G129, G130, G140, G147, G149, G160, G163, G164, G165, G167, G168, G169, G170, G171, G172, G173, G175, G176, G178, G179, G180, G181, G183, H7, H8, H9, H10, H11, H12, H23, H24, H25, H27, H59, H60, H61, H63, H64, H65, H66, H75, H76, H79, H99, H100, H102, H103, H106, H108, W2, W4	127

	Individual Trees	Total	Groups of Trees	Total
Category C (Low Quality / Value)	T1, T7, T19, T20, T22, T25, T28, T31, T36, T37, T42, T43, T71, T75, T83, T84, T91, T92, T97, T101, T102, T104, T105, T106, T107, T108, T109, T113, T121, T122, T123, T126, T127, T128, T135, T136, T140, T145, T146, T148, T149, T150, T156, T157, T158, T160, T161, T162, T172, T177, T179, T184, T191, T195, T197, T199, T200, T202, T206, T209, T214, T226, T228, T229, T230, T231, T235, T242, T243, T249, T251, T257, T259, T274, T285, T291, T297, T298, T299, T303, T304, T310, T311, T319, T322, T323, T327	85	G2, G3, G4, G9, G12, G14, G19, G25, G38, G47, G48, G53, G57, G61, G62, G63, G64, G67, G69, G70, G71, G72, G74, G76, G77, G83, G87, G89, G90, G91, G93, G101, G102, G106, G109, G111, G113, G114, G115, G116, G118, G120, G121, G125, G127, G128, G131, G133, G134, G136, G137, G146, G148, G150, G151, G152, G154, G155, G156, G159, G161, G162, G166, G174, G182, H1, H2, H3, H4, H5, H6, H13, H14, H15, H16, H17, H18, H19, H20, H21, H22, H26, H28, H29, H30, H31, H32, H33, H34, H35, H36, H37, H38, H39, H40, H41, H42, H43, H44, H45, H46, H47, H48, H49, H50, H51, H52, H53, H54, H55, H56, H57, H58, H62, H67, H68, H69, H70, H71, H72, H73, H74, H77, H78, H80, H81, H82, H83, H84, H85, H86, H87, H88, H89, H90, H91, H92, H93, H94, H95, H96, H97, H98, H101, H104, H105, H107	147

Section 1 – A449 corridor, as far as the A5 north and south to Station Drive including Gailey roundabout (and A5 as far as the railway) and a section of the A449 south of Station Drive

- 3.19 This section of the Site encompasses the corridor of the A449, as far south as Station Drive and northwards to the A5. The trees and hedges present within this section are as follows:
- **Individual Trees** – T9, T10, T12, T13, T34-T41, T301-T309, T313-T317, T326, T327 and T328
 - **Groups of Trees** – G10, G11, G21, G31, G33, G34, G35, G36, G61, G149, G153, G154, G157, G158, T166-T173 and T179-T183
 - **Hedgerows** – H1, H6, H7, H75, H76, H81, H82, H83, H84, H86, H95, H89-H94 and H105-H108
 - There were no woodlands present within this section of the Site
- 3.20 The notable arboricultural features of this portion of the Site consisted of the mature and established highway planting within the grass verges along most of the length of the A449 east and west, which consisted of high numbers of Norway Maple reaching up to approximately 12m in height. Collectively due to their structure and formality, these trees provided a visually pleasing landscape to the road and provided strong visual amenity. There were also several mature oak specimens of varying quality present along the length of the road as well as within the central reservation. Towards the northern section of the road corridor the planting became more sporadic and lower in quality mostly consisting of over mature whitebeam.

- 3.21 The vast majority of trees along the A449 corridor were regarded as retention category B for their moderate arboricultural quality although there were occasional retention category C and A grade specimens reflecting those with lower and higher qualities.
- 3.22 The hedgerow that was present along the field edges adjacent to the road verges on both sides comprised of hawthorn and had been regularly maintained. It was regarded as being retention category C for its limited arboricultural value.
- 3.23 The tree and hedgerow cover present along the northern most part of the A449 and including Gailey roundabout at the junction with the A5 was assessed for any impacts arising from new layby provisions that may potentially be required and any other offsite highway works requirements in the future.
- 3.24 This tree cover consisted of an established hawthorn boundary hedgerow which ran almost along the entire length of the section, several individual mature whitebeam consistent with the eastern side, a collection of ash trees in the southern part positioned within the adjacent field and a collection of mature lime trees around the roundabout within grass verges. For the most part, the tree quality on this eastern section was regarded as being retention category B.
- 3.25 Section 2 – Fields **between the railway line to the east and the A449 to the west, extending as far north as the A5 (northern extent) and as far south as Station Drive (southern extent)** including several small sections of tree cover on Station DriveThis section of the Site encompasses the agricultural land between the A449 and the railway line, as far south as Station Drive and northwards to the A5 but excluding the tree cover along the access road to the chemical works (covered in Section 10). The trees, hedges and woodlands present within this section are as follows:
- **Individual Trees** – T1-T6, T8, T11, T14, T15, T17-T20, T21-T33, T319 and T320
 - **Groups of Trees** – G1-G9, G12-G15, G19, G20, G22, G23, G26, G27, G29, G30, G32, G36, G37, G38 and G160-G165
 - **Hedgerows** – H2, H3, H5, H8
 - **Woodlands** – W1
- 3.26 The notable arboricultural features of this portion of the Site consisted of the extensive network of well-established native species field boundary hedgerows which supported a range of trees of all retention categories, and which were predominantly mature ash or oak. Also present was a plantation of mature hybrid black poplar, amongst which were a small number of large mature oak, which was a feature in the section of land to the north of Gravelly Way that bisected this part of the Site and provided the entrance to the chemical works. The poplar had attained heights in excess of 25m and were therefore fully mature. Although they were prominent in the landscape by virtue of their large proportions, they were all found to be in declining condition housing a high burden of storm damaged crown material and as a result were subsequently in poor structural health. Collectively, due to the presence of the oak within the plantation, this group of trees was regarded as retention category B although there were several category C and U specimens reflecting the poor overall condition of some of the trees.

- 3.27 A solitary category A mature oak was situated in this section of the Site, close to the A449 corridor. It was typically characteristic for the species and there were no obvious defects recorded at the time of the assessment.
- 3.28 It would not however be regarded as being a true veteran tree as it did not possess the minimum number of characteristic features although with a large stem diameter it would be a future or transitional veteran.
- 3.29 Also, present within the southern part of this section close to the existing properties and closest to the A449 was a field pond around which were a number of good quality mature oak supported by outgrown hawthorn, hazel, blackthorn, elder and goat willow. Visually this collection of trees was typically characteristic of the agricultural landscape and provided moderate arboricultural quality and value.
- 3.30 To the north of the Four Ashes Public House was playing field and around its northern and eastern boundaries was a healthy belt of young mature buffer planting of mixed species including lime, cherry, field maple, ash, Norway maple, supported by a hawthorn hedgerow.
- 3.31 This group of trees was found to be in good condition and provided visual buffering to views in and out of the Site, thus was regarded as being retention category B.
- 3.32 Present also was a group of mature aspen *Populus tremula* positioned just south of Gravelly Way, containing specimens that had attained heights of up to 25m. For their collective presence, they were regarded as retention category B and were generally in good condition.
- 3.33 The remainder of the material in this section of the Site consisted of a number of hedgerows, mostly of unmaintained forms, comprising of native species as well as several other small groups of trees.

Section 3 – Railway corridor

- 3.34 This section of the Site encompasses the corridor of the active mainline railway which passes in a north – south direction through the Site. The trees and hedges present within this section are as follows:
- **Individual Trees** – T247, T248
 - **Groups of Trees** – G15-G18, G24, G28, G39, G40, G126, G127, G129
 - **Hedgerows** – H63
 - There were no woodlands present within this section of the Site.
- 3.35 The notable arboricultural feature of this portion of the Site consisted of the several large linear belts of trees which made up the railway corridor. The planting was fairly patchy in its distribution and of mixed species and qualities, including English oak, common ash, field maple, hawthorn and goat willow. Despite not being an entirely continuous feature collectively, the planting still formed a strong ‘green’ corridor to both the north and south of Gravelly Way. Where there are “gaps”, the development proposals would provide an ideal opportunity to enhance the corridor, especially to the north where tree cover is more sporadic, with new buffer planting opportunities where it meets with the Site.

- 3.36 The various groups forming tree cover along the railway corridor were all category B, reflecting their moderate arboricultural value.

Section 4 – Fields between the railway and the canal corridor, as far north as the A5 and south to the Gravelly Way access road leading to the chemical works

- 3.37 This section of the Site encompasses all the land between the railway and the canal and extends to the A5 in the north and as far as south as the access road leading to the chemical work for the southern limit. The trees and hedges present within this section are as follows:
- **Individual Trees** – T44-T83, T120-T124, T129-T132
 - **Groups of Trees** – G41-G61, G72-G74, G77, G78
 - **Hedgerows** – H9-H12, H21, H25
 - **Woodlands** – W2, W4
- 3.38 The notable arboricultural features of this portion of the Site consisted of a high number of good quality open grown individual examples and groups of English oaks, with many possessing large stem diameters and therefore considered as being future or transitional veteran trees.
- 3.39 None of these were found to be true veteran trees however, as they did not possess the required minimum number of characteristic features. The collective presence of the large oaks within this section of the Site was characteristic of the local landscape and these sizable trees formed integral features along field boundaries and watercourses. Reflecting their arboricultural quality and significance within the landscape, there were several specimens which had been considered as retention category A, high quality and value with the remainder being retention category B.
- 3.40 A small block of mixed species tree cover was present within the field adjacent to the A5 and access lane alongside the canal which extends from off-Site, third party tree cover. The quality of this small tree group was generally low however as it had seen little targeted management over the years and subsequently contained a number of leaning and failed / collapsed specimens. Despite this, collectively the group did provide visual buffering and therefore for its maturity and contribution to the local landscape was regarded as retention category B.
- 3.41 A watercourse passed through the field systems in this section of the Site and along its length supported a number of mature and over mature alder displaying varying states of health and structural condition, some of which was poor and others good. For their moderate arboricultural quality, most of the alder were regarded as retention category B as they provide landscape character.
- 3.42 W2 was a triangular parcel plantation of mature Corsican pine. It was in good condition and by virtue of its evergreen nature and maturity formed a strong visual feature. Not considered as having the highest arboricultural quality however, W2 was downgraded to retention category B.
- 3.43 W4 and G74 formed two areas of mature woodland of mixed broad leaved tree cover predominantly comprised of English oak. G74 was a natural extension to W4, which was a typical woodland with a clearly defined structure consisting of an upper story stand of mature oak with a supporting understory of birch, holly and occasional rowan.

- 3.44 The woodland was regarded as retention category B to reflect the need for some management intervention and its maturity whereas for the lower quality and conditions, with reduced life expectancy of the extension group was regarded as retention category C.
- 3.45 Both were important however for their contribution to the local landscape and bio-diversity. If retained, both the wood and group would require future management within a specifically targeted management plan to see its continued contribution.
- 3.46 The remainder of the material in this section of the Site consisted of a number of hedgerows, mostly of unmaintained forms, comprising of native species as well as several other small groups of trees.

Section 5 – Canal Corridor from the A5 to Station Drive

- 3.47 This section of the Site encompasses the corridor of the canal where it passes within the application Site boundary from the A5 all the way to Station Drive. The trees and hedges present within this section are as follows:
- **Individual Trees** – T124-T126 and T325
 - **Groups of Trees** – G65, G75, G76, G79 and G176-G178
 - **Hedgerows** – H23, H24
 - There were no woodlands present within this section of the Site.
- 3.48 The notable arboricultural features of this portion of the Site consisted of strong mature well-stocked belts of trees directly along the banks of the canal, comprising most entirely alder although there were a number of fully mature hybrid black poplar in places as well as good numbers of mature English oak. The tree cover was generally found to be of good quality and thus created a very leafy and attractive setting along which to walk the tow path that ran the length of the canal. In some parts, there were a number of mature oak either as individuals or part of more extensive wooded belts and collectively along with the alder provided high amenity. The value, quality and importance of the canal and its associated landscape have been recognized by the various Local Authorities through which it passes by being designated as a Conservation Area, entitled: the Staffordshire and Worcestershire Canal Conservation Area and which stretches for 46 miles. The development proposals would provide an opportunity to plant new tree cover which would not only serve to enhance this already scenic part of the Site but would importantly offer the mechanism by which future landscape can be created and managed thus maintaining the character of the Conservation Area.
- 3.49 For its good quality and condition, the vast majority of the tree cover along the canal corridor was regarded as retention category B.

Section 6 – Calf Heath Wood

- 3.50 W3 describes Calf Heath Wood which took a central position within the Site.
- 3.51 The wood was comprised of two distinct types of tree cover. The largest part by area was a formally planted plantation of mature Corsican pine crop, set out in rows. The remainder, which made up a smaller area was mixed broadleaved species, predominantly comprised of mature oak supported by silver birch.

- 3.52 Around the northern and north-western outside edges i.e. around the plantation of Corsican pine were a number of mature and large oaks of varying quality and condition, considered to most likely be some of the original field boundary specimens.
- 3.53 The part of the pine plantation to the immediate north side of an internal access track was mature and uniformly structured with 3-4m intervals between stems and very little ground cover / under story element due to the closed canopy restricting light to the forest floor.
- 3.54 The size of the trees in this part of the plantation was circa 350-400mm in diameter at breast height. Where there were a few clearings, although these were seldom present, there had been natural colonisation by silver birch. Noted amongst the pine crop were a small number of mature oak, of similar sizes to the specimens present around the periphery, possibly these too having been retained original field boundary or open grown trees. None of the oak however, including those around the edges were of veteran status.
- 3.55 Rhododendron was present in several large clumps rather than in abundance throughout. There was an occasional fallen stem of pine where it had failed yet remained in situ and it is in these areas where colonisation of rhododendron and birch had occurred.
- 3.56 The mature pine crop encircled an area centrally and which extended to the north east boundary, of younger planting with stock with stem diameters in comparison to the older trees of circa 150-200mm hence being more recently planted, restocked Corsican pine. In this area of younger crop, there was no evidence of any specific management, and generally the cover was dense having not been subject to any thinning and individual tree guards were still in situ.
- 3.57 Extending from the wood to its north-west corner was a small triangle of silver birch, dense in structure and in good condition.
- 3.58 The mixed broad leaved component occupied two areas; firstly the southern part of the wood extending as far as an internal access track which bisected the wood. The access track delineated the start of the pine plantation and mixed broadleaved cover to the south. The second area occupied a triangular section in the south-eastern corner and extended as far as a ride which had been cleared for overhead power lines. The mixed broad leaved cover comprised of mature oak and occasional beech, amongst a high proportion of silver birch. However the southernmost extent (adjacent to the area where trees have been cleared for the consented sheds) had a more open structure and principally consisted of silver birch, but also present throughout this area was smaller groups of mature oak. An under story of rhododendron was present throughout all areas except the southernmost fringe.
- 3.59 The triangular south eastern parcel comprised predominantly mature oak, with an under story of rhododendron and occasional pine with a fairly structured and closed canopy. The size of the stock was circa 400mm dbh with tall and drawn forms. Throughout the oak crop very few "old" trees were observed and none of veteran status.
- 3.60 Collectively for its current landscape value and overall contribution to bio-diversity, Calf Heath Wood was regarded as retention category A.

Section 7 – Land to the north, south and east of Calf Heath Wood to the A5 in the north, Vicarage Road in the south and M6 in the east; including the Quarry and tree cover around Calf Heath Reservoir and the northern edge of the A5

- 3.61 This section of the Site encompasses all the land surrounding Calf Heath Wood, including the quarry as it extends to the A5 north, Vicarage Road south and the M6 east. The trees and hedges present within this section are as follows:
- **Individual Trees** – T84-T119, T134-T208, T297-T300, T311, T312, T318 and T321-T324
 - **Groups of Trees** – G62, G63, G64, G66-G71, G80-G92, G94-G103, G148, G152, G174 and G175
 - **Hedgerows** – H13-H20, H27-H32, H34-H42, H79, H80 and H96-H104
 - **Woodlands** – W5
- 3.62 The notable arboricultural features of this portion of the Site consisted of a number of veteran trees and a native black poplar along with a high number of other field boundary oak and groups of mixed species planting around the existing waterbody, Calf Heath Reservoir adjacent to the M6.
- 3.63 A large number of English oak were present along the field boundary hedgerows and were mostly good quality and form, thereby creating strong visual features and being landscape character forming. Several trees within the quarry area however had unfortunately been subjected to damage from operational activities and exhibited poor structural condition, with a number of broken limbs and branches as well as excavation within their rooting zones.
- 3.64 The veteran trees were tree reference numbers T153, T159, T166, T167, T168, T169, T175 and T178 and their positions were around the edges of the current quarrying area as well as two specimens within the quarry. The veteran specimens exhibited a range of characteristic attributes pertaining to veteran trees and were important components of the historic landscape. The specialist veteran habitats were of equal importance for their contribution to the Sites overall biodiversity.
- 3.65 Their future management will need to be carefully considered as part of a Site wide tree and landscape management program, targeted to ensure their continued survival and contribution to bio-diversity alongside other treatments.
- 3.66 For their veteran status, all eight specimens were regarded as retention category A, sub-category (iii) accordingly.
- 3.67 A black poplar, reference number T102 has been confirmed through DNA testing to be a native specimen. The condition of the tree was however considered to be poor as it had suffered crown collapse in parts and showed a high burden of dead and damaged crown material as a result. For its reduced quality and limited future life expectancy, arboriculturally T102 was regarded as retention category C.
- 3.68 G92, G94 and G99 formed a prominent belt of predominantly mature English oak along the southern edge of the quarry. Collectively, these groups of trees provided good amenity and would by virtue of the species continue to provide a strong landscape feature for many more years hence they were regarded as retention category A and B.

- 3.69 G84 was a small rectangular block of mixed species, mature tree cover to the south side of Woodside Farm and alongside the access track. Species present included aspen, sycamore, holly and some birch with no one species particularly dominant. For its good condition and visual prominence, G84 was regarded as retention category B.

The remainder of the material in this section of the Site consisted of a number of hedgerows, mostly of unmaintained forms, comprising of native species as well as several other small groups of trees. Tree cover along the northern edge of the A5 comprised of small groups of trees and a number of field boundary hedgerows most of which was within third party ownership.

Section 8 – Land to the south of Vicarage Road southwards to Straight Mile including Kings Road

- 3.70 This section of the Site encompasses the area of land due south of Vicarage Road extending to Straight Mile, as far as Stable Lane and Woodlands Lane to the east and the several private properties at the western extent where Straight Mile joins with Vicarage Road. The trees and hedges present within this section are as follows:
- **Individual Trees** – T209-T219, T221-T230, T257-T296, T310
 - **Groups of Trees** – G104-G110, G131-G147, G150, G151 and G159
 - **Hedgerows** – H43-H58, H64-H74, H77, H78 and H87
 - **Woodlands** – W6
- 3.71 The notable arboricultural features of this portion of the Site consisted of further veteran trees and a number of tree lined field boundary hedgerows which formed strong visual features within the landscape as many of the trees contained within them were large, open grown English oak.
- 3.72 There were three true veteran trees in this section of the Site, namely T222, T276 and T279. Again, these trees all possessed the required minimum number and quality of characteristic attributes pertaining to veteran trees.
- 3.73 Directly adjacent to Straight Mile Road and cornering with Woodlands Lane is a small area of tree cover, G145 around a pond feature. Within the group are a number of fallen and uprooted willow due to the waterlogged ground and present along the road edge are a number of larger oak, typical of others found across the Site. For its visual prominence and contribution to the local landscape, G145 was regarded as retention category A.
- 3.74 W6 is a large block of woodland which extends on the western side of Woodlands Lane and stretches across the lane, outside of the application boundary occupying the point of the triangle with Stable Lane. The woodland was comprised of mixed broadleaved species and predominantly English oak although there were a good number of mature aspen also within the planting. The woodland was mature and had a well-structured form thus by virtue of its visual prominence and good condition, with potential through management to continue contributing in the future to landscape visual amenity and bio-diversity, would be regarded as retention category A accordingly.

- 3.75 G144 formed a strong arboricultural feature comprising a belt of large number of mature English oak running along the length of Stable Lane connecting W6 and G145 abovementioned. The individual conditions and qualities of the component oak varied but they were generally found to be of conditions typical to the age of the stock and species. In recognition of their high visual amenity, good quality / condition and contribution to the local landscape, G144 was regarded as being retention category A.
- 3.76 The remainder of the material in this section of the Site consisted of a number of hedgerows, mostly of unmaintained forms, comprising of native species as well as several other small groups of trees.

Section 9 – Land to the south of Straight Mile to the Canal

- 3.77 This section of the Site encompasses the land due south of Straight Mile as far south as the canal, extending eastwards to Deepmore Lane and west to the start of the industrial units along Station Road. The trees and hedges present within this section are as follows:
- **Individual Trees** – T231-T243
 - **Groups of Trees** – G11-G116
 - **Hedgerows** - H59-H61
 - **Woodlands** – W7, W8
- 3.78 The notable arboricultural features of this portion of the Site consisted of a strong visual belt of high quality mature, mixed English oak and alder tree cover along the northern banks of the canal which extended as far as Long Molls Bridge, referenced W7.
- 3.79 W5, a block of woodland was also present at the eastern end of Straight Mile and opposite Site G145.
- 3.80 Both woodlands would be considered as retention category A in recognition of their high arboricultural quality and value.
- 3.81 The remainder of the material in this section of the Site consisted of a limited number of hedgerows compared to the rest of the Site, mostly of unmaintained forms and more defunct in nature, comprising of native species as well as several other small groups of trees along with a small number of roadside trees, mostly ash.

Section 10 – Access road to the Chemical Works

- 3.82 This section of the Site captures the tree cover along the route of the existing access road into the chemical works along with the landscaped areas around the entrances. The trees and hedges present within this section are as follows:
- **Individual Trees** – T16, T133, T244-T256
 - **Groups of Trees** – G25, G117-G130
 - **Hedgerows** - H4, H25, H62, H63
 - There were no woodlands within this section of the Site

- 3.83 The only notable arboricultural features of this portion of the Site consisted of the various amenity trees and shrub groups planted around entrance to works as part of previous landscaping to the car parking and existing industrial units / works. The species palate was very mixed including both evergreen and broadleaved varieties with a high proportion of cypress types. To reflect the mix in qualities and a more limited amenity value, the material in this area was regarded as mostly retention category C with an occasional category B.

Hedgerows

- 3.84 The lengthy field boundaries were demarcated by well-established hedgerows comprised of native species, of mostly continuous unbroken sections of partially managed and managed forms. Hedgerows varied in quality as a result of differing management practices both past and present. Typically, hedgerows were generally dominated by hawthorn with abundant blackthorn *Prunus spinosa* but some also contained varying quantities of ash, privet, sycamore, hazel, holly, elm *Ulmus spp*, elder *Sambucus nigra* and bramble *Rubus fruticosa* amongst others. There were a small number of evergreen screens present also around residential properties formed by Leyland and Lawson cypress types.
- 3.85 From an arboricultural perspective, the majority of hedgerows have been regarded as retention category C with a small number being of slightly higher quality and retention category B in recognition of this. Individual trees within the hedgerows and groups of trees with more significance due to their visual prominence / arboricultural value or quality have been separately recorded.

4.0 VETERAN TREES

- 4.1 Recorded by the BS 5837 survey were eleven true veterans; according to accepted assessment methodologies and published guidance, cited in Chapter 2 Methodology.
- 4.2 All recorded specimens were English oak.
- 4.3 BS5837 class for such trees would be category A (high quality and value); sub category (iii) for recognition of their biological and cultural importance.
- 4.4 Any tree assessed as having veteran tree characteristics and qualifying as a veteran tree, regardless of its physical condition / structural integrity, would be given category A in recognition of its importance and contribution to nature conservation and local wildlife. Every effort in the design of the proposals has been taken to retain and conserve as many of the eleven recorded specimens present as possible as their veteran status is protected and safeguarded through national policy contained in the National Planning Policy Framework (2012).
- 4.5 In addition to the eleven true veterans, there were also found to be a further twenty-five specimens, all of which are also English oak, that have stem diameters in excess of 1000mm, which in accordance with the literature cited in Chapter 2, would for their respective species be "interesting". For this reason, their retention would be equally important and the proposals have been designed as to retain and integrate as many of these specimens as possible to form part of the veteran community of habitats in the local area. Such trees would be referred to as future or transitional veteran trees. These specimens are a combination of category A and B trees denoting their condition and quality.

- 4.6 Table 3 below details the eleven true veteran trees present within the Site and where they are located.

Table 3: Summary table of the 11 True Veteran Trees

Tree Number (FPCR)	Description of location within the Site
T159	Part of a small cluster of three veteran trees; two close to the existing quarry haul road and one at the southern side / western end of the reservoir
T153	Part of a small cluster of three veteran trees; two close to the existing quarry haul road and one at the southern side / western end of the reservoir
T166	Part of a small cluster of three veteran trees; two close to the existing quarry haul road and one at the southern side / western end of the reservoir
T167	Positioned within W5, Reservoir Plantation
T175	Positioned within the current quarry area; centrally located
T178	Positioned within the current quarry area; centrally located
T168	Positioned within the same hedgerow on southern limit of the current quarry area
T169	Positioned within the same hedgerow on southern limit of the current quarry area
T222	Positioned within the expansion land adjacent to the large centrally located field pond; to the east side
T276	Positioned within the same internal hedgerow towards the western end of the expansion land
T279	Positioned within the same internal hedgerow towards the western end of the expansion land

5.0 ARBORICULTURAL IMPACT ASSESSMENT (AIA)

- 5.1 The following paragraphs present a summary of the tree survey and discussion of particular trees and groups recorded in the context of any proposed development in the form of an Arboricultural Impact Assessment in accordance with section 5.4 of BS5837. Any final tree retentions will need to be reconciled with the advice contained within this report.
- 5.2 The AIA has been based upon the Key Plan - Parameters Plan / Green Infrastructure Plan - SUBMISSION (drawing no. 4049-1033 Rev 04 dated March 2018 – Chetwoods Architects) and has outlined the relationship between the proposed development and the existing trees and hedgerows. The proposals are for an intermodal freight terminal with connections to the West Coast Main Line, including container storage, HGV parking, rail control building and staff facilities. There will also be up to 473,200 sq m of rail served warehousing and ancillary service buildings, new road infrastructure and works to the existing road infrastructure. As part of the proposals, existing structures will be demolished and there will be structural earthworks to create the development plots and landscaped zones. Supporting the proposals will be extensive strategic landscaping and new open space, to include alterations to public rights of way and the creation of new ecological enhancement areas and publicly accessible open areas.
- 5.3 An overlay of the proposed development layout has been incorporated in the Tree Retention Plans (Figure 3) to assist in identifying the relationship and between the proposals and the existing trees and hedgerows and any impacts, which have been separated and discussed under the various sub headed sections.

Table 4: Summary of Impact on Tree Stock

TOTALS	OVERALL NUMBER	LOST IN FULL	LOST IN PART	RETAINED IN FULL
Individuals				
Category A	73	25	NA	48
Category B	155	58	NA	97
Category C	87	45	NA	42
Category U	13	9	NA	4
TOTALS	328	137	NA	191
Groups				
Category A	14	1	1	12
Category B	99	26	8	65
Category C	66	14	1	51
Category U	3	2	0	1
TOTALS	182	43	10	129
Hedgerows				
Category A	0	0	0	0
Category B	27	3	3	21
Category C	81	25	11	45
Category U	0	0	0	0
TOTALS	108	28	14	66
Total length of hedgerow surveyed = 16.04km	Total length of hedgerow being retained, either parts of hedgerows or full hedgerows as surveyed = 8.594km		Total length of hedgerow to be removed, either parts of hedgerows or full hedgerows as surveyed = 7.446km	
Woodlands				
Category A	6	1	1	4
Category B	2	0	0	2
Category C	0	0	0	0
Category U	0	0	0	0
Total number of woodlands	8	1	1	6
Total area (excluding Calf Heath Wood)	10.4ha	0.4ha	-	10ha
Calf Heath Wood (total area)	28ha	-	15ha	13ha
Totals (all woodlands)	38.4ha	0.4ha	15ha	23ha

Tree, Hedgerow and Woodland Removals

- 5.4 The scheme layout has been designed following a thorough and comprehensive assessment of all the constraints, which has included the findings of the tree survey. The considerations by way of arboricultural implications that would arise should such a development occur within the application area as per the above proposals are set out below.
- 5.5 The scheme design has in principle, and by following guidance within *BS5837* and where practicable, therefore sought to retain as many category A and B specimens, groups of trees and woodlands as possible thereby securing the main concentrations of higher quality trees and retaining the key hedgerow networks that occur throughout Site. The result has been that the vast majority of trees within the Site.
- 5.6 Importantly this has included thorough consideration of the veteran trees that are present seeing the design of the scheme paying particular attention to these specimens and retained as many as possible as well as ensuring that any adverse impacts are kept to an absolute minimum. The veteran trees are of significant importance and thus have informed the layout of the Parameters Plan from an early stage in the design process. Details of veteran trees to be retained have been given in par 5.26 and further discussion provided on the design measures that will prevent damage to root protection areas arising from construction of the soil bunds.
- 5.7 The Tree Retention Plans have illustrated all the surveyed tree cover pertaining to the four retention categories including those mature trees of category U, unsuitable for retention. At this stage, it would be the intention to retain all the category U trees that would not need to be removed to facilitate the proposals for the ecological and landscape value that these trees hold, where possible and practicable. Final decisions as to the most appropriate course of action / treatment for the future of such retained trees will be made at the appropriate stage so that suitable remedial treatment can be applied accordingly in the interests of public safety, where it may be required.
- 5.8 The scheme has allowed for the retention of the large majority of the tree cover as part of the wider green infrastructure strategy which includes creation of two new Country Parks and sizable areas of new functional public open space that will serve to connect through “green links” with the surrounding countryside.
- 5.9 In order to facilitate a scheme of this scale and nature, clearly there will be tree and hedgerow losses. Table 4 above has summarised those losses and set out in the following paragraphs some of the particular losses relating to access points have been further detailed under the various sub-headings. The majority of losses would be to create the space needed for the units, car parking and structural mounding.
- 5.10 There is possibly a requirement to provide two new laybys along the northern section of the A449 (northbound and southbound) close to Gailey Roundabout, the provision for which has been indicated on the General Arrangement drawings (WPS Group).

- 5.11 Discussions in this regard however are still ongoing with Highways England as to the exact location and form, and therefore although there has yet to be a fixed decision regarding their delivery the trees and hedgerows potentially impacted upon and would need to be removed to facilitate construction of the laybys in their current location have been included as part of the arboricultural impact assessment and calculated within the overall losses of trees and hedgerows to the scheme, although this is on the understanding that these losses may also be subject to change.

Category A

- 5.12 Of the seventy-three individual category A trees, forty-eight are being retained. Of the fourteen category A groups of trees, twelve are being retained in full and a further one in part. Of the six category A woodlands, three are being retained in full and two in part requiring only small proportions to be removed, which includes a portion of Calf Heath Wood. There were no category A hedgerows.
- 5.13 A relatively large area of the coniferous component of Calf Heath Wood would be removed, however two sizable sections of the overall woodland would be retained, the first being the entire south eastern edge and the second being the south-western edge, both areas are predominantly broadleaved and include the associated mature boundary oaks. It is also the intention to retain as far as possible a number of the mature boundary oaks along the northern outer edges, where practical and achievable.

Category B

- 5.14 Of the one hundred and fifty-five individual category B trees, ninety-seven trees are being retained. Of the ninety-nine category B groups of trees, sixty-five are being retained in full and a further eight in part. Of the two category B woodlands, both are being retained in full. Of the twenty-seven category B hedgerows, there will be negligible losses as twenty-one are being retained in full and the three remaining hedgerows retained in part.

Category C

- 5.15 Of the eighty-seven individual category C trees, forty-two trees are being retained. Of the sixty-six category C groups of trees, fifty-one are being retained in full and a further one in part. Of the eighty-one category C hedgerows, forty-five are being retained and a further eleven retained in part. Overall, the highest number of hedgerows to be removed are of the lower quality and value, arboriculturally, with no net loss of the higher grade (category B hedgerows). There were no category C woodlands.

Category U

- 5.16 Of the thirteen individual category U trees, four would be possible to be retained and not required to be removed for the scheme's facilitation although these will be retained initially until further decisions have been made as to their future at the appropriate stage in the construction phases.
- 5.17 Of the three category U groups of trees, one would potentially be retained in full however, as above will be retained initially prior to final decisions regarding its future treatment. There were no category U hedgerows or woodlands.

Access

5.18 There will be three access points, two of which will be new (off the A5 and Vicarage Road) and upgrading of the existing junction currently serving the industrial estate.

Access off A5

5.19 To facilitate the access point the following trees would be removed:

- T84 (category C)
- G62 (category C)
- Part of H13 (category C)
- G71 (category C)
- T118 (category B)
- T119 (category A)

5.20 There would be limited locations where access would be acceptable in highway terms and therefore the proposed access point and choice of junction arrangement has been designed to minimise the impact / loss of vegetation and disruption to existing habitats.

5.21 The loss of these trees will be mitigated for through a well-considered landscape design with new tree and hedgerow planting specifically designed to enhance the entrance.

Access off A449

5.22 To facilitate the access point the following trees would be removed:

- T12 (category B)
- T13 (category C)
- T16 (category B)
- Part of H1 (category C)
- H4 (category C)
- Parts of G21 (category B)
- G25 (category C)

5.23 As above, the loss of these trees will be mitigated for through a well-considered landscape design with new tree and hedgerow planting specifically designed to enhance the entrance.

Southern Access of Vicarage Lane

5.24 To facilitate the access point the following trees would be removed:

- T196 (category B)
- T265 (category B)
- H36 (category C)
- Part of H37 (category C)

- 5.25 As above, the loss of these trees will be mitigated for through a well-considered landscape design with new tree and hedgerow planting specifically designed to enhance the entrance.

Veteran Trees

- 5.26 The development proposal would require the loss of four of the eleven veteran trees, namely T153, T159, T175 and T178 but all the remaining seven specimens would be retained, namely T166, T167, T168, T169, T222, T276 and T279.
- 5.27 Veteran trees are important components of our present landscape and their importance can be for wildlife, social, cultural and historic reasons. Veteran trees are also records of our past through the way they are managed and treated.
- 5.28 From an ecological perspective, veteran trees provide a rare and very specialist habitat and therefore preservation of that habitat is considered highly important.
- 5.29 The veteran trees on the Site are of high arboricultural quality and will therefore need to be protected and managed appropriately as their future health and survival is of paramount importance and is recognised in the National Planning Policy Framework. Veteran trees are valuable in that they possess historic connections to former landscapes and have wildlife value in that they provide a unique natural habitat for a range of wildlife as well as creating an attractive and interesting focal points for the wider amenity of the areas where they are being retained.
- 5.30 Soil bunds in close proximity to the root protection areas of four of the retained veteran trees namely T166, T222, T276 and T279 will be carefully constructed at suitable distances away and the working method will be final levels built up by working towards the trees to ensure that machinery does not unnecessarily compact the ground. The final design of the bunds will also be sculpted as far as possible to minimise the amount of bunding within any of the root protection areas. Robust and appropriate Tree Protection Fencing will be used to ensure that machinery does not breach root protection areas. The setting out of Tree Protection Fencing will be under the supervision of an arboriculturalist.
- 5.31 Changes of land usage over time within close proximity to trees, especially veteran status trees can influence their physiology and overall health. The way in which veteran trees respond to any changes to their local environment can be minimised through appropriate protection measures and future management decisions. Therefore, continual re-appraisal of management operations in the light of tree response and condition is essential to ensure the long-term survival of our historic past and to guarantee the conservation of associated wildlife.
- 5.32 Due to the type and nature of the veteran trees detailed in this assessment and taking into account the change of land use around some of the retained specimens they will need to be managed selectively and carefully. It is recommended any general tree management should be directed towards protecting the veteran tree's longevity, wherever possible, to ensure that there is no avoidable loss of the veteran tree.
- 5.33 They are all to be retained either within new open space or retained as part of green corridors all as part of the Green Infrastructure.
- 5.34 For the future care and management of the retained seven veteran trees, in order to retain them in a "safe" condition and in order to, as far as practically possible, better guarantee their future survival, it is recommended that at this stage no pruning work is carried out.

- 5.35 A further more detailed assessment should be undertaken to evaluate their need for any remedial tree surgery which will need to sensitively applied, at the appropriate stage in the future development of this Site and it would be recommended that their future is considered within a specific Veteran Tree Management Program specifically crafted which will consider their long-term care and management as part of this Site. The management program will need to factor public safety as part of its recommendations.
- 5.36 It will be important as part of future recommendations for the care and management of the retained specimens to make sure the long-term use of the area around and under these trees is not altered from its current form.
- 5.37 This is because Veteran trees due to their greater maturity and aged condition are far more sensitive to changes to their growing environment and as a result are far less able to adapt compared to younger specimens. Therefore, protection of their rooting environment needs a more considered approach as to limit any significant changes.

Mitigation for Veteran Tree Losses

- 5.38 Unfortunately, and regrettably the scheme is not able to accommodate the four veteran oak specimens listed above due to their positions in relation to the design and without compromising their future survival or a major re-design.
- 5.39 The design process has been informed by the presence of the veteran trees so that working closely with the designers to achieve a “good design”, as many of the veteran trees as possible have been retained. Retention of more veterans would require significant modification to the design and is not achievable.
- 5.40 Therefore, as has been successfully undertaken in other situations, mitigation for the loss of the four veteran trees from both an arboricultural and ecological perspective would retain as far as possible the specialist habitat that their veteran condition currently offers to local bio-diversity and will be suitably tailored to ensure continuation of that habitat resource as best possible.
- 5.41 One such measure for mitigation can therefore be provided through retaining of as much of the physical structure of the trees as possible, in large sections i.e. trunk and key limbs / branches close to their original position, preferably where they would not be disturbed. This would be possible within the new landscaped areas immediately to the east and north around the Calf Heath Reservoir on the M6 side of the Site where there are large buffers of existing and proposed new planting. The retained dead wood, either as large pieces of the trees or the entire trees (it would be possible to move large sections using specialist equipment) without their crown structure, would continue to supply the local invertebrate population with a dead wood habitat as well as offering a Site for fungal interaction and increased opportunity for new fungal habitats.
- 5.42 Alternatively, and it would be possible, consideration could be given to “translocating” the entire tree albeit with a reduced form and to re-erect them also in the abovementioned landscaped areas.

- 5.43 In addition to retaining the main body of the tree, such as trunk and primary branch / limb structures and / or translocating, it is also recommended that propagation of the trees through hard wood cuttings and direct growing of acorns be undertaken as a viable form of mitigation and for the new trees to be used for use in planting on the Site in the future, close to the parent trees and other retained “future / transitional” veterans where they exist to expand the veteran community. Off-spring from the parent trees is highly important for succession to support the life that is supported by these valuable habitat trees.
- 5.44 In line with the recommended mitigation measures provided by Natural England and Forestry Commission guidance (known as ‘standing advice’; updated 27th November 2017, the buffer zones for retained ‘true’ veteran trees are at least 15 times larger than the diameter of the veteran tree in question or 5m from the edge of the canopy, whichever is greater. For all the retained veterans, where feasible open spaces have been designed as to provide as much undisturbed areas as possible for long term protection. During construction appropriate screening barriers will be erected to protect from dust and pollution.

Transitional or Future Veteran Trees

- 5.45 Of the additional 25 ‘transitional / future’ veterans (over 1000mm dbh), five specimens would need to be removed thus retaining 20. As mitigation for their loss, it is proposed to also undertake a similar suite of measures as for the ‘true veterans’ which will consist of propagation of hard wood cuttings and growing acorns from retained specimens in order to retain the local oak gene pool, strategically planting these off-spring trees to form new veteran tree communities / habitats in close proximity to retained specimens and retaining large sections of felled trunks close to retained specimens for their bio-diversity and connectivity to local invertebrate assemblages. The twenty retained trees grouped together in several parts of the Site and all positioned within proposed areas of green infrastructure thus allowing for the off-spring planting to be placed in the new GI.
- 5.46 All the proposed mitigation measures would form part of an overall veteran tree strategy for managing, maintaining and replenishing the veteran oak community for the long term.

Black Poplar

- 5.47 A single specimen has been confirmed through DNA testing to be a true native black poplar. The tree is T102 and it is located part way down (west side) the current approach road to the existing quarry entrance off the A5 along the northern boundary.
- 5.48 The tree would need to be removed to facilitate the development proposals.
- 5.49 By virtue of the growth characteristics of poplar where growth is rapid and at the deficit of wood strength, their form can often result in mature examples being highly vulnerable to limb / branch failure and crown collapse especially during periods of adverse weather. T102 was found to be in a very poor structural condition having suffered significant crown collapse and possessing high amounts of dead and damaged limbs and branches.

Mitigation Strategy

- 5.50 Its position adjacent to the haul road will not have aided the trees overall current poor health as well as having been exposed to strong winds having had little in the way of surrounding protection. For trees of this species, however mitigation for its loss can be successfully provided by propagation techniques due to its ability to grow well and fast; in the way of hard wood cuttings in order to perpetuate the species and continue to DNA of this true native specimen. The cuttings will be harvested from the parent tree during the spring of 2017 and grown on until strong and healthy enough for planting. The young off-spring trees will be planted within the Site as part of the GI in areas close to waterbodies to support their riparian nature and managed accordingly to ensure survival.

Statutory Constraints

- 5.51 The Site falls within the Staffordshire and Worcestershire Canal Conservation Area. The designation follows the full length of the canal which extends for 46 miles from Stourport in Worcestershire to Great Haywood in Staffordshire. The section which passes through the application Site is administered by South Staffordshire District Council.
- 5.52 Following consultation with the above planning authority, it has however been confirmed via email that there are no Tree Preservation Orders that apply to any trees within the application area.
- 5.53 Prior to any tree surgery and / or felling of trees within the Conservation Area designation it will be necessary to apply to the District Council to gain consent for the works. For more information regarding Conservation Areas it is advised that contact is made with the District Council's arboricultural officer, or other such relevant person.

New Tree Planting

- 5.54 As part of the scheme there will be extensive new landscaping with vast quantities of tree planting to be incorporated into the proposals. Tree planting will be included as part of hard landscaped areas of car parking or alongside the primary access roads and within the roadside verges. Planting of new trees and hedges, and woodlands / structural will also importantly form a large part of the overall Green Infrastructure Strategy seeing creation of a future "tree" landscape.
- 5.55 The success of any landscaping scheme relies on an adequate provision of a high-quality rooting environment within which trees can thrive and reach their full potential. Planting trees with due care and consideration can, in the long term, provide a greater return on a schemes green investment and ensure trees remain healthy and grow to mature proportions. Healthy mature trees integrate well into the built environment; increase the maturity of the landscape; help provide a natural green and leafy urban environment in which people would want to reside whilst also benefiting local wildlife.
- 5.56 The planting of trees within confined urban environments should consider the use of appropriately designed planting pits specifically engineered to promote tree health and longevity.

The rooting environment will need to provide an adequate volume of quality soil for roots to suitably develop by calculating the amount of available soil volumes needed and selecting species whose mature size is compatible with the Site. This is an integral component of the planning stage (Lindsey & Bassuk, 1991).

- 5.57 Wherever possible, following discussions with the utility company, common service trenches should be specified to minimise land take associated with underground service provision and facilitation access for future maintenance.
- 5.58 The landscaping scheme will use of both native tree species (for their low maintenance requirements and nature conservation value) and ornamental species (for their contribution to urban design and amenity value). Species choices will be selected on the basis of their suitability for the final Site use. Furthermore, during the design process consultation should be made with the Local Planning Authority to obtain information on their tree strategy and incorporate the planting proposals with any local policies and initiatives and/or Biodiversity Action Plans (BAP).
- 5.59 Careful consideration will be given to the following: ultimate height and canopy spread, form, habit, density of crown, potential shading effect, colour, water demand, soil type and maintenance requirements.
- 5.60 Tree planting should be avoided where they may obstruct overhead power lines or cables. Any underground apparatus should be ducted or otherwise protected at the time of construction to enable trees to be planted without resulting in future conflicts.

Tree Management

- 5.61 At the appropriate stage a review of the relationship between the layout and the retained trees should be undertaken by a qualified arboriculturalist to assess the existing tree cover and prepare a schedule of tree works for works to be carried out where it may be required for aesthetic reasons and most importantly in the interests of public safety.
- 5.62 All retained trees should be subjected to sound arboricultural management as recommended within section 8.8.3 of BS5837 *Post Development Management of Existing Trees*, where there is a potential for public access in order to satisfy the landowner's duty of care. Additionally, inspections annually and following major storms should be carried out by an experienced arboriculturalist or arborist to identify any potential public safety risks and to agree remedial works as required.
- 5.63 All tree works undertaken should comply with British Standard 3998:2010 and should therefore be carried out by skilled tree surgeons. It would be recommended that quotations for such work be obtained from Arboricultural Association Approved Contractors as this is the recognised authority for certification of tree work contractors.
- 5.64 All vegetation and, particularly, woody vegetation proposed for clearance should be removed outside of the bird-breeding season (March - September inclusive) as all birds are protected under the Wildlife and Countryside Act, 1981 (as amended) whilst on the nest. Where this is not possible, vegetation should be checked for the presence of nesting birds prior to removal by an experienced ecologist.

6.0 TREE PROTECTION MEASURES

- 6.1 Retained trees will be adequately protected during works ensuring that the calculated root protection area for all retained trees can be appropriately protected through the erection of the requiSite tree protection barriers. Measures to protect trees should follow the guidance in BS5837 and will be applied where necessary for the purpose of protecting trees within the Site whilst allowing sufficient access for the implementation of the proposed layout. These have been broadly summarised below.

General Information and Recommendations

- 6.2 All trees retained on Site will be protected by suitable barriers or ground protection measures around the calculated RPA, crown spread of the tree or other defined constraints of this assessment as detailed by section 6 and 7 of BS5837.
- 6.3 Barriers will be erected prior to commencement of any construction work and before demolition including erection of any temporary structures. Once installed, the area protected by fencing or other barriers will be regarded as a construction exclusion zone. Fencing and barriers will not be removed or altered without prior consultation with the Project Arboriculturalist.
- 6.4 Any trees that are not to be retained as part of the proposals should be felled prior to the erection of protective barriers. Particular attention needs to be given by Site contractors to minimise damage or disturbance to retained specimens.
- 6.5 Where it has been agreed, construction access may take place within the root protection area if suitable ground protection measures are in place. This may comprise single scaffold boards over a compressible layer laid onto a geo-textile membrane for pedestrian movements. Vehicular movements over the root protection area will require the calculation of expected loading and the use of proprietary protection systems.
- 6.6 Confirmation that tree protective fencing or other barriers have been set out correctly should be gained prior to the commencement of Site activity.

Tree Protection Barriers

- 6.7 Tree protection fencing should be fit for the purpose of excluding any type of construction activity and suitable for the degree and proximity of works to retained trees. Barriers must be maintained to ensure that they remain rigid and complete for the duration of construction activities on Site.
- 6.8 In most situations, fencing should comprise typical construction fencing panels attached to scaffold poles driven vertically into the ground. For particular areas where construction activity is anticipated to be of a more intense nature, supporting struts, acting as a brace should be added and fixed into position through the application of metal pins driven into the ground to offer additional resistance against impacts. Where Site circumstances and the risk to retained trees do not necessitate the default level of protection an alternative will be specified appropriate to the level / nature of anticipated construction activity. The recommended methods of fencing specifications for this Site have been illustrated in Appendix B.

- 6.9 It may be appropriate on some Sites to use temporary Site offices, hoardings and lower level barrier protection as components of the tree protection barriers. Details of the specific protection barriers for the Site can be provided should the application be approved, as part of a Site specific Arboricultural Method Statement for a Reserved Matters application and in accordance with the guidance contained within BS5837.

Ground Protection

- 6.10 Construction access may take place within Root Protection Areas if suitable ground protection measures are in place. Guidance on examples of appropriate ground protection for several different scenarios is provided in section 6.2.3 of BS5837. The location of and design for temporary ground protection should be detailed as part of an Arboricultural Method Statement required by conditioning should planning permission be granted. In all cases, the objective is to avoid compaction of the soil which can arise from a single passage of a heavy vehicle, especially in wet conditions, so that tree root functions remain unimpaired.

Protection outside the exclusion zone

- 6.11 Once the areas around trees have been protected by the barriers, any works on the remaining Site area may be commenced providing activities do not impinge on protected areas.
- 6.12 All weather notices should be attached to the protective fencing to indicate that construction activities are not permitted within the fenced area. The area within the protective barriers will then remain a construction exclusion zone throughout the duration of the construction phase of the proposed development. Protection fencing signs can be provided upon request.
- 6.13 Wide or tall loads etc should not come into contact with retained trees. Banksman should supervise transit of vehicles where they are in close proximity to retained trees.
- 6.14 Oil, bitumen, cement or other material that is potentially injurious to trees should not be stacked or discharged within 10m of a tree stem. No concrete should be mixed within 10m of a tree. Allowance should be made for the slope of ground to prevent materials running towards the tree.
- 6.15 No fires will be lit where flames are anticipated to extend to within 5m of tree foliage, branches or trunk, taking into consideration wind direction and size of fire.
- 6.16 Notice boards, telephone cables or other services should not be attached to any part of a retained tree.
- 6.17 Any trees which need to be felled adjacent to or are present within a continuous canopy of retained trees, must be removed with due care (it may be necessary to remove such trees in sections).

Protection of Trees Close to the Site

- 6.18 A number of trees were located on the boundaries of the Site and therefore the root protection area and crown spread of these trees will need to be protected in the same way as all the retained trees within the Site. All trees located outside the boundaries of the assessment Site yet within close proximity to works should be adequately protected during the course of the development by barriers or ground protection around the calculated root protection area.

- 6.19 Any trees which are to be retained and whose Root Protection Areas may be affected by the development should be monitored, during and after construction, to identify any alterations in quality with time and to assess and undertake any remedial works required as a result.

Protection for Aerial Parts of Retained Trees

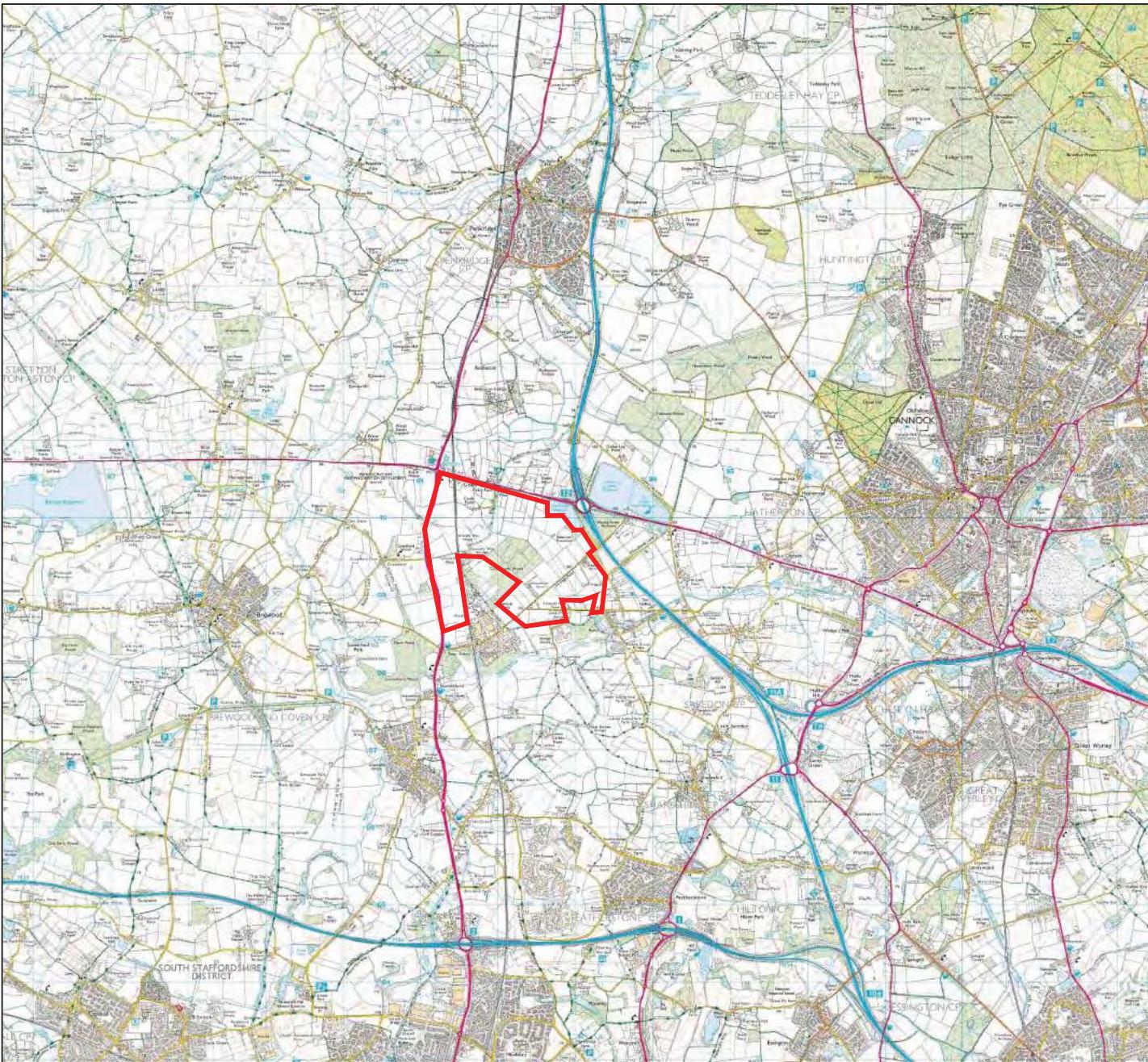
- 6.20 Where it is deemed necessary to operate a wide or tall load, plant bearing booms, jibs and counterweights or other such equipment as part of the construction works it is best advised that appropriate, but limited tree surgery, be carried out beforehand to remove any obstructive branches. Any such equipment would have potential to cause damage to parts of the crown material, i.e. low branches and limbs, of retained trees within the protective barriers. This is termed as 'access facilitation pruning' within BS5837. Any such pruning should be undertaken in accordance with a specification prepared by an arboriculturalist.
- 6.21 A pre-commencement Site meeting with contractors who are responsible for operating machinery will be required, as described above, to firstly highlight the potential for damage occurring to tree crowns and to ensure that extra care is applied when manoeuvring machinery during such operations within close proximity to retained trees to avoid any contact.
- 6.22 In the event of having caused any branch or limb damage to retained trees it is strongly recommended that suitable tree surgery be carried out, in accordance with British Standard 3998:2010 and in agreement with the Local Planning Authority prior to correcting the damage, upon completion of development.

7.0 CONCLUSION

- 7.1 The tree survey recorded three hundred and twelve individual trees, one hundred and fifty two groups of trees, eighty hedgerows and eight woodlands. These have been assessed as being mostly as category A and B grades, reflecting the high quality and value of the trees and woodlands to the local landscape. The larger tree groups have a higher collective intrinsic value as opposed to the individual component trees within them.
- 7.2 The dominant species is mature English oak, the vast majority of which are associated with the extensive network of field boundary hedgerows or as free-standing examples and / or as parts of woodlands. They are visually prominent, character forming integral features of the local landscape.
- 7.3 A total of eleven English oak were found to be of 'true veteran status' as they possessed the required minimum number of characteristic features pertaining to veteran trees to qualify under the definition. A further twenty-five oak specimens, possessed stem diameters in excess of 1000mm, which would for their respective species be "interesting" and therefore these trees are considered as being 'future' or 'transitional' veteran trees, as they had yet to develop the features associated with veteran trees beyond their larger stems.
- 7.4 Alongside the oak there is a broad range of other species types found across the Site including evergreen varieties as well as broadleaved recorded both as individual specimens and groups. The varied species range across the Site is complementary of the rural environment and typical of open countryside. Riparian species are present along watercourses and water bodies which include alder and willow types.

- 7.5 On the whole, the surveyed tree cover is largely in good physical and structural condition. The exceptions being where the effects of maturing ages and adverse weather conditions have had their natural effect and where targeted formal management has been absent meaning some trees are showing various signs associated with decline and reduced quality. Despite this, by virtue of the overall maturity of the tree cover and the resultant positive visual impact this has, trees are contributing significantly to the local landscape.
- 7.6 It has been confirmed through DNA testing that there is a native black poplar on the Site. This specimen will not be retained by the proposals however it will be propagated and grown on to enable the off-spring to be planted back around the Site thus ensuring continued survival of this nationally rare species.
- 7.7 The scheme layout has been designed following a thorough and comprehensive assessment of the constraints, which included the findings of the tree survey. This detailed constraint led design process has meant as many of the high quality and key trees, hedges, woodlands; alongside other existing natural features as possible, as possible have been retained seeing them incorporated into the layout.
- 7.8 Tree removals to facilitate the junctions are mostly of low quality to very modest arboricultural value to the extent that they should not hinder the highway design of the junctions and can be justifiably mitigated for within a future approved landscape scheme to form part of the supporting Green Infrastructure.
- 7.9 For a scheme of this nature and scale, clearly tree and hedgerow losses will occur but every effort in the evolution of the design has been made to incorporate as many of the existing trees and hedgerows as possible so that any losses are kept to an absolute minimum as it is recognised that the Site's existing tree cover is a significant asset to landscape quality, biodiversity and arboriculture alike. This includes the retention of seven out of the eleven true veteran trees.
- 7.10 To mitigate for the loss of trees to the scheme, an extensive Green Infrastructure design will support the proposals which will see two new Country Parks created, a number of new water features and well-considered structural landscaping. Across the scheme, there will be extensive new tree and woodland planting meaning the current aging population of trees will be supplemented with a much-needed new generation of trees to bridge the hiatus in age classes.
- 7.11 Seven of the eleven veteran trees are all to be retained either within new open space or retained as part of green corridors all as part of the Green Infrastructure.
- 7.12 Due to the type and nature of the veteran trees detailed in this assessment and taking into account the change of land use around some of the retained specimens they will need to be managed selectively and carefully. It is recommended any general tree management should be directed towards protecting the veteran tree's longevity, wherever possible, to ensure that there is no avoidable loss of the veteran tree.

- 7.13 The loss of veteran trees to the scheme, which total four true veterans and five future or transitional veteran will be mitigated for through a broad range of measures to include propagation of hard wood cuttings and growing acorns from retained specimens in order to retain the local oak gene pool; strategically planting these trees to form new veteran tree communities / habitats in close proximity to retained specimens and retaining large sections of felled trunks close to retained specimens for their bio-diversity and connectivity to local invertebrate assemblages. These measures will form part of an overall veteran tree strategy for replenishing the veteran oaks community for the long term.
- 7.14 The proposed scheme is therefore considered to be arboriculturally sound as it will retain a high proportion of the significant tree cover seeing its integration into the design as part of the extensive Green Infrastructure being proposed with generous landscape buffers and new areas of multi-functional public open space. The majority of existing mature trees are being retained within areas designated for their environmental/recreational value and as such representing a minimal change from the historic growth environment thus reducing the need to undertake tree surgery unless for reasons of public safety.
- 7.15 Providing that retained trees, hedgerows and woodlands are suitably protected during the construction phases by the requisite tree protection barriers, the existing tree cover should be successfully integrated with the scheme and be able to continue to provide high landscape value thereby ensuring continuation of that tree cover into the future.
- 7.16 As well as the successful retention and integration of the existing tree cover, the extensive new tree planting which will be delivered will provide an ideal opportunity to not only increase the amount of tree cover, but it will also diversify the species range to that which currently exists thus building stronger resilience into the local tree population safeguarding it from pests and diseases in the future ensuring survival of the tree'd landscape. New tree planting will use species that are in keeping and characteristic to the area thereby retaining local character.



KEY



Assessment Boundary

	rev	date	description	by
masterplanning				
environmental assessment				
landscape design				
urban design			FPCR Environment and Design Ltd	
ecology			Lockington Hall	
architecture			Lockington	
arboriculture			Derby DE74 2RH	
			t: 01509 672772	
			f: 01509 674565	
			e: mail@fpcr.co.uk	
			w: www.fpcr.co.uk	



client

Four Ashes Limited

project

West Midlands Interchange
Land south of the A5, west of J12 of the M6

drawing title

ASSESSMENT BOUNDARY PLAN
FIGURE 1

scale
1:25000 @ A4

drawn
LG

date
May 2017

drawing number

7121-A-01

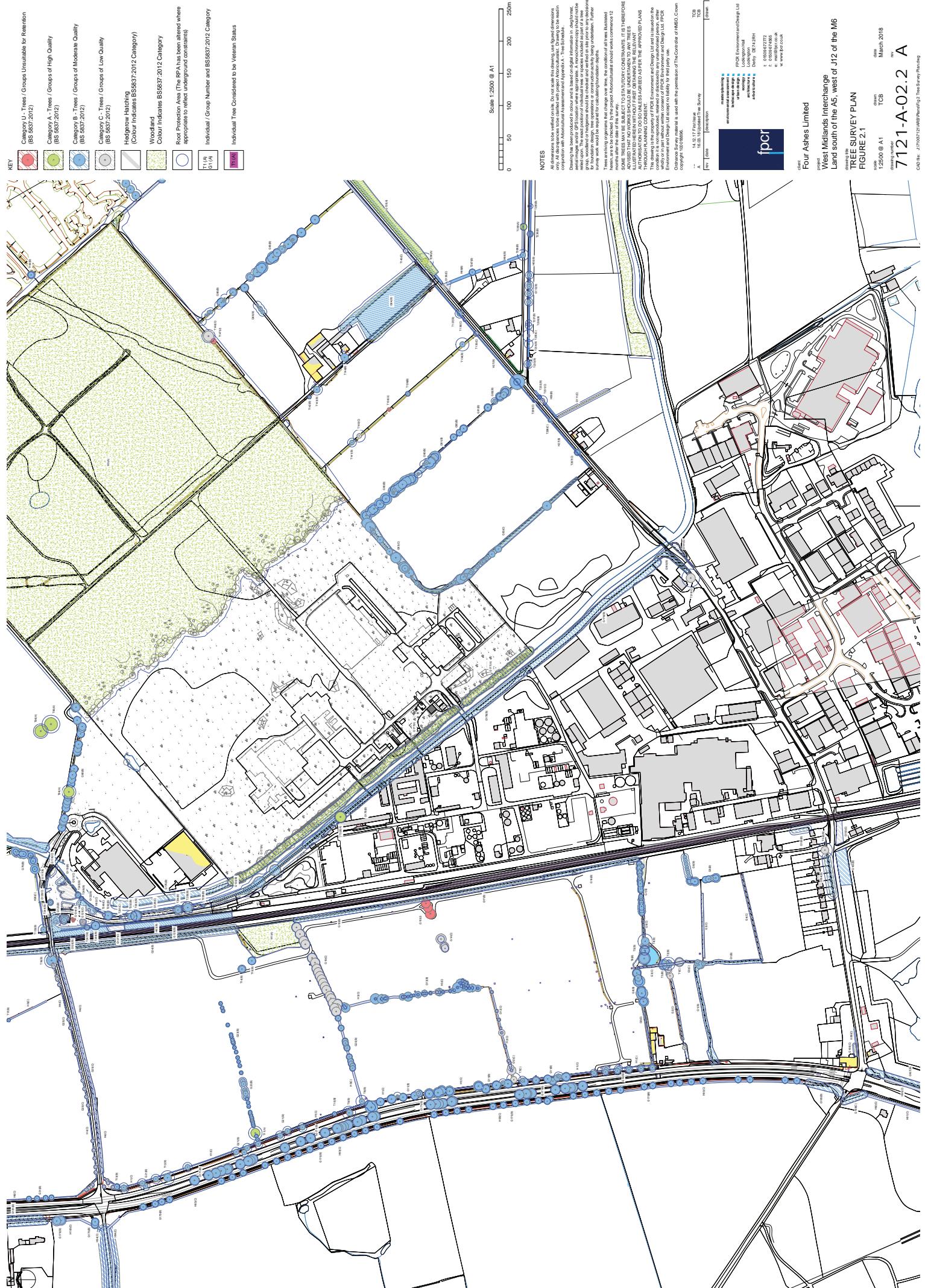
rev

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CAD file: J:\7100\7121\ARB\Plans\Fig 1 Assessment Boundary Plan.dwg











Appendix A - Tree Schedule

Measurements	Age Class	Overall Condition	Root Protection Area (RPA)
Height - Measured using a digital laser clinometer (m)	YNG: Young trees up to ten years of age	G - Good: Trees with only a few minor defects and in good overall health needing little, if any attention	<ul style="list-style-type: none"> The RPA Radius column provides the extent of an equivalent circle from the centre of the stem (m). The RPA is calculated using the formulae described in paragraph 4.6.1 of British Standard 5837: 2012 and is indicative of the rooting area required for a tree to be successfully retained. Tree roots extend beyond the calculated RPA in many cases and where possible a greater distance should be protected. Where veteran trees have been identified the RPA has been calculated in accordance with Natural England guidance i.e. 15x the stem diameter, uncapped.
Diameter measured (mm) in accordance with Annex C of the BS5837	SM: Semi-mature trees less than 1/3 life expectancy	F - Fair: Trees with minor rectifiable defects or in the early stages of stress from which it may recover	P - Poor: Trees with major structural and/or physiological defects such that it is unlikely the tree will recover in the long term
Crown Radius - Measured using a digital laser clinometer radially from the main stem (m)	EM: Early mature trees 1/3 – 2/3 life expectancy		
Abbreviations	M: Mature trees over 2/3 life expectancy	D - Dead: This could also apply to trees in an advanced state of decline and unlikely to recover	
est - Estimated stem diameter avg - Average stem diameter for multiple stems upro - Maximum stem diameter of a group	OM: Over mature declining or moribund trees of low vigour	The BS category particular consideration has been given to the following <ul style="list-style-type: none"> The health, vigour and condition of each tree The presence of any structural defects in each tree/group and its future life expectancy The size and form of each tree/group and its suitability within the context of a proposed development The location of each tree relative to existing site features e.g. its screening value or landscape features Age class and life expectancy 	
	V: Veteran tree possessing certain attributes relating to veteran trees		

Structural Condition

- The following is an example of considerations when inspecting structural condition:
- The presence of fungal fruiting bodies around the base of the tree or on the stem, as they could possibly indicate the presence of possible internal decay
 - Soil cracks and any heaving of the soil around the base
 - Any abrupt bends in branches and limbs resulting from past pruning
 - Tight or weak 'V' shaped forks and co-dominant stems
 - Hazard beam formations and other such biomechanical related defects (as described by Claus Mattheck, Body Language of Trees HMSO Research for Amenity Trees No. 4 1994)
 - Cavities as a result of limb losses or past pruning
 - Broken branches or storm damage
 - Damage to roots
 - Basal, stem or branch / limb cavities
 - Crown die-back or abnormal foliage size and colour

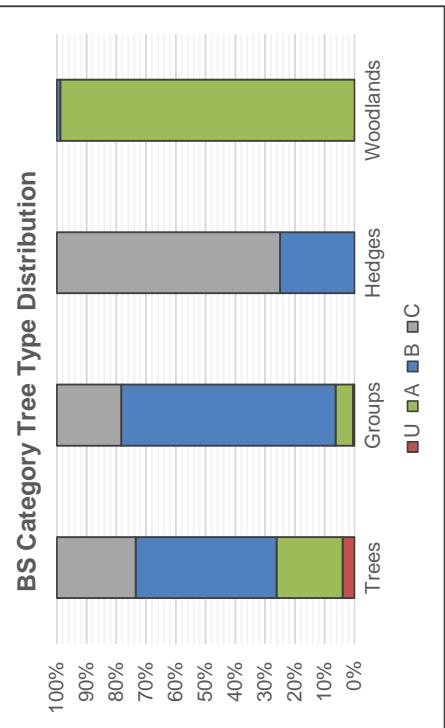
Quality Assessment of BS Category

- | |
|--|
| Category U - Trees 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 A - Trees of high quality with an estimated remaining life expectancy of at least 40 years. |
| Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. |
| Category C - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm. |
| Sub-categories: (i) - Mainly arboricultural value
(ii) - Mainly landscape value
(iii) - Mainly cultural or conservation value |

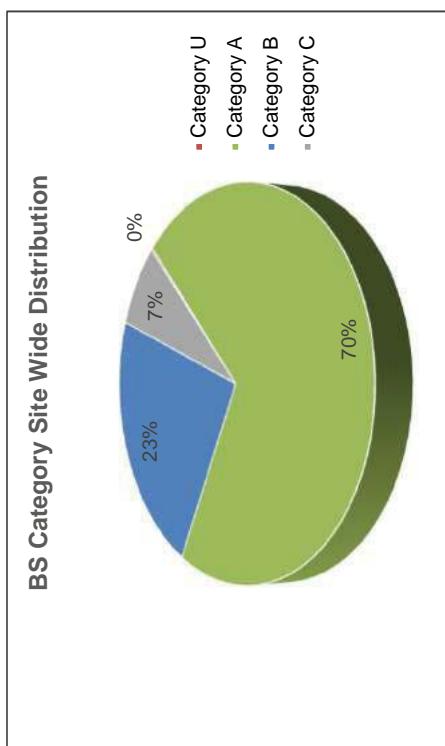
Appendix Summary

	Individual Trees	Totals	Tree Groups and Hedgerows	Totals
Category U	T21, T32, T35, T40, T114, T117, T131, T139, T147, T180, T295, T300	13	G15, G96, G124, G158	4
Category A	T11, T68, T79, T85, T86, T87, T94, T95, T96, T98, T103, T112, T115, T116, T119, T129, T130, T153, T159, T163, T166, T167, T168, T169, T170, T171, T178, T186, T188, T189, T198, T201, T203, T204, T205, T207, T212, T215, T216, T217, T218, T222, T223, T224, T225, T262, T263, T266, T269, T271, T272, T273, T275, T276, T277, T279, T280, T281, T282, T283, T284, T286, T287, T288, T289, T290, T292, T294, T296, T309, T317, T318, T325	73	G99, G105, G132, G135, G138, G139, G141, G142, G143, G144, G145, G153, G157, G177, W1, W3, W5, W6, W7, W8	20
Category B	T2, T3, T4, T5, T6, T8, T9, T10, T12, T13, T14, T15, T16, T17, T18, T23, T24, T26, T27, T29, T30, T33, T34, T38, T39, T41, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T69, T70, T72, T73, T74, T76, T77, T78, T80, T81, T82, T88, T89, T90, T93, T99, T100, T110, T111, T118, T120, T124, T125, T132, T133, T134, T137, T138, T141, T142, T143, T144, T151, T152, T154, T155, T164, T165, T173, T174, T175, T176, T182, T183, T185, T187, T190, T192, T193, T194, T196, T208, T210, T211, T213, T219, T220, T221, T227, T232, T233, T234, T236, T237, T238, T239, T240, T241, T244, T246, T247, T248, T250, T252, T253, T254, T255, T258, T260, T261, T264, T265, T267, T268, T270, T278, T293, T301, T302, T305, T306, T307, T308, T312, T313, T314, T315, T316, T320, T321, T324, T326, T328	155	G1, G5, G6, G7, G8, G10, G11, G13, G16, G17, G18, G20, G21, G22, G23, G24, G26, G27, G28, G29, G30, G31, G32, G33, G34, G35, G36, G37, G39, G40, G41, G42, G43, G44, G45, G46, G49, G50, G51, G52, G54, G55, G56, G58, G59, G60, G65, G66, G68, G73, G75, G79, G80, G81, G82, G84, G85, G86, G88, G92, G94, G95, G97, G98, G100, G103, G104, G107, G108, G110, G112, G117, G119, G122, G123, G126, G129, G130, G140, G147, G149, G160, G163, G164, G165, G167, G168, G169, G170, G171, G172, G173, G175, G176, G178, G179, G180, G181, G183, H7, H8, H9, H10, H11, H12, H23, H24, H25, H27, H59, H60, H61, H63, H64, H65, H66, H75, H76, H79, H88, H99, H100, H102, H103, H106, H108, W2, W4	128
Category C	T1, T7, T19, T20, T22, T25, T28, T31, T36, T37, T42, T43, T71, T75, T83, T84, T91, T92, T97, T101, T102, T104, T105, T106, T107, T108, T109, T113, T121, T122, T123, T126, T128, T135, T136, T140, T145, T146, T148, T149, T150, T151, T157, T158, T160, T161, T162, T172, T177, T179, T184, T194, T195, T197, T199, T200, T202, T209, T214, T226, T228, T229, T230, T231, T235, T242, T243, T249, T251, T257, T259, T285, T291, T297, T298, T299, T303, T304, T310, T311, T319, T322, T323, T327	87	G2, G3, G4, G9, G12, G14, G19, G25, G38, G47, G48, G53, G57, G61, G62, G63, G64, G67, G69, G70, G71, G72, G74, G76, G77, G78, G83, G87, G89, G90, G91, G93, G101, G102, G106, G109, G111, G113, G114, G115, G116, G118, G120, G121, G125, G127, G128, G131, G133, G134, G136, G137, G146, G148, G150, G151, G152, G154, G155, G156, G159, G161, G162, G166, G174, G182, H1, H2, H3, H4, H5, H6, H13, H14, H15, H16, H17, H18, H19, H20, H21, H22, H26, H28, H29, H30, H31, H32, H33, H34, H35, H36, H37, H38, H39, H40, H41, H42, H43, H44, H45, H46, H47, H48, H49, H50, H51, H52, H53, H54, H55, H56, H57, H58, H62, H67, H68, H69, H70, H71, H72, H73, H74, H77, H78, H80, H81, H82, H83, H84, H85, H86, H87, H89, H90, H91, H92, H93, H94, H95, H96, H97, H98, H101, H104, H105, H107	147
	Total	328	Total	299

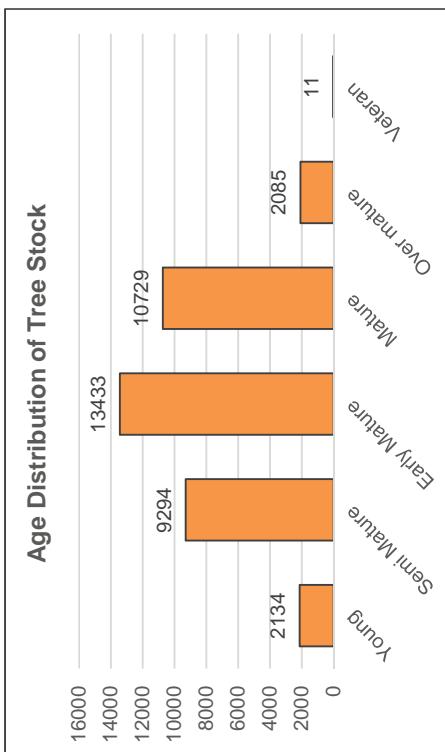
BS Category Tree Type Distribution displays the proportion of trees assessed in each type to enable a better understanding of the category distribution.



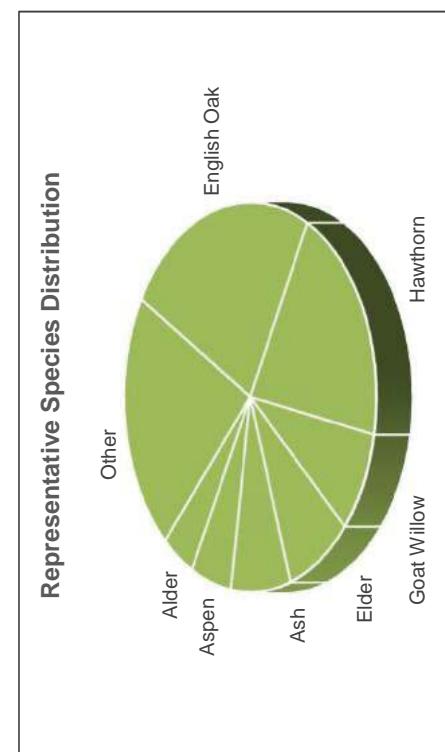
BS Category Site Wide Distribution shows the proportion of trees assessed in each category across the whole site which allows an interpretation of the site's overall quality.



Age Distribution of Tree Stock shows the number of trees in each age category across the tree stock allowing assessment of their longevity to be made.



Representative Species Distribution displays the proportion of the tree stock for each species with greater than 5% of the total.



Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
INDIVIDUAL TREES												
T1	Ash <i>Fraxinus excelsior</i>	13	254 525	6	EM	F	Twin stemmed from base with fused Crossing and rubbing branches Low crown form Minor dead wood evident in the crown (<75mm) Poached ground at the base			154	7.0	C (i)
T2	English Oak <i>Quercus robur</i>	11	850	N - 3 S - 6 E - 6 W - 6	M	F	Bark wounds noted with heartwood exposed Low crown form Major dead wood evident in the crown (>75mm) Storm damage present central leader previously failed at 6m Uneven crown Barb wire attached to stem			327	10.2	B (i)
T3	White Willow <i>Salix alba</i>	14	515 490	N - 7 S - 3 E - 7 W - 7	M	F	Twin stemmed from base Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Leaning to north			229	8.5	B (i)
T4	English Oak <i>Quercus robur</i>	13	940	6	M	F	Bark wounds noted on southern side possible lighting strike Low crown form Retrenchment with major dead wood evident in the crown (>75mm)			400	11.3	B (i)
T5	English Oak <i>Quercus robur</i>	12	540 330	N - 4 S - 7 E - 6 W - 6	EM	F	Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) Twin stemmed from base			181	7.6	B (i)
T6	White Willow <i>Salix alba</i>	15	10x 250	8	M	F	Multi stemmed from base No major defects were noted Typical crown form Characteristic of species			283	9.5	B (i)
T7	English Oak <i>Quercus robur</i>	8.5	920	5	M	P	Bark wounds noted with large cavity on main stem to east at 1m Broken branches evident Epicormic growth evident within the crown Light ivy cover Major dead wood evident in the crown (>75mm)			383	11.0	C (i)
T8	English Oak <i>Quercus robur</i>	13	415 647	4	M	G	Twin stemmed from base Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted			267	9.2	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T9	English Oak <i>Quercus robur</i>	14	est 850	N - 3 S - 6 E - 4 W - 4	M	F	Retrenchment with major dead wood evident in the crown (>75mm) Pruning wounds noted Situated offsite		327	10.2	B (i)
T10	Ash <i>Fraxinus excelsior</i>	10	275	3	SM	G	Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form Situated within hedgerow		34	3.3	B (i)
T11	English Oak <i>Quercus robur</i>	14	880	7	M	G	Light ivy cover Major dead wood evident in the crown (>75mm) No major defects were noted Typical crown form Close cultivation of soil at base		350	10.6	A (i)
T12	English Oak <i>Quercus robur</i>	14	est 900	6	M	F	Major dead wood evident in the crown (>75mm) No major defects were noted Pruning wounds noted Situated offsite		366	10.8	B (i)
T13	Silver Birch <i>Betula pendula</i>	13	340	5	EM	G	Light ivy cover No major defects were noted Typical crown form Situated within hedgerow		52	4.1	B (i)
T14	English Oak <i>Quercus robur</i>	9	526	5	EM	F	Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) No major defects were noted Single large hung up dead branch		125	6.3	B (i)
T15	English Oak <i>Quercus robur</i>	13	496	6	EM	F	Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted		111	6.0	B (i)
T16	English Oak <i>Quercus robur</i>	15	935	N - 6 S - 6 E - 8 W - 4	M	F	Bark wounds noted Epicormic growth evident within the crown Hazard beam present Pruning wounds noted Close cultivation of soil to north Recently constructed road within 2m of base to south		395	11.2	B (i)
T17	Alder <i>Alnus glutinosa</i>	7	120 190	2.5	EM	F	Twin stemmed from base Low crown form No major defects were noted Typical crown form		23	2.7	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T18	English Oak <i>Quercus robur</i>	14	950	5	M	F	Branch socket cavities observed Major dead wood evident in the crown (>75mm) Pruning wounds noted with branch stubs evident Close cultivation of the soil		408	11.4	B (i)
T19	Norway Maple <i>Acer platanoides</i>	2	268	1	SM	F	Crossing and rubbing branches Old laid forms NB height increases to 4m in the central section close to H51 and returns to 2m at the southern end		32	3.2	C (i)
T20	English Oak <i>Quercus robur</i>	16	1060	6	OM	P	Bark wounds noted with heartwood exposed possible lightning strike Broken branches evident Close cultivation of the soil Dieback of the crown observed with major dead wood evident (>75mm) Pruning wounds noted Ganoderma applanatum bracket noted at base		508	12.7	C (i)
T21	English Oak <i>Quercus robur</i>	6	520	3	EM	P	Close cultivation of the soil Limited future potential Minor dead wood evident in the crown (<75mm) Multiple pruning wounds noted Poor quality specimen		N/A	N/A	U
T22	English Oak <i>Quercus robur</i>	8	372	3	SM	F	Pruning wounds with branch stubs Burrows at base		63	4.5	C (i)
T23	English Oak <i>Quercus robur</i>	14	740	N - 5 S - 6 E - 8 W - 3	M	F	Branch socket cavities observed Pruning wounds with branch stubs evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) No major defects were noted		248	8.9	B (i)
T24	English Oak <i>Quercus robur</i>	19	920	9	M	F	Broken branches and branch stubs evident Dense undergrowth at the base Major and minor dead wood evident in the crown No major defects were noted		383	11.0	B (i)
T25	English Oak <i>Quercus robur</i>	19	950	N - 8 S - 6 E - 8 W - 2	M	P	Branch socket cavities observed Storm damage with broken branches and branch stubs evident Dense undergrowth at the base Major and minor dead wood evident in the crown		408	11.4	C (i)
T26	English Oak <i>Quercus robur</i>	19	1000	9	OM	F	Broken branches and branch stubs evident Dense undergrowth at the base Major and minor dead wood evident in the crown No major defects were noted Pruning wounds noted		452	12.0	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	Radius			
T27	Hornbeam <i>Carpinus betulus</i>	19	910	N - 5 S - 9 E - 9 W - 9	M	G	Branch stubs evident Crossing and rubbing branches Hazard beam present Minor dead wood evident in the crown (<75mm) Multi leadered form Pruning wounds noted		375	10.9	B (i)
T28	Ash <i>Fraxinus excelsior</i>	22	est 900	8	M	P	Bark wounds noted with heartwood exposed Branch socket cavities observed Branch stubs evident Dieback of the crown observed with major dead wood evident (>75mm) Epicormic growth evident within the crown Multiple <i>Inonotus hispidus</i> brackets noted on main stem		366	10.8	C (i)
T29	English Oak <i>Quercus robur</i>	12	avg 550	5	EM	F / G	Branch stubs evident Characteristic for species Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Stood within field bounding drainage basin		137	6.6	B (i)
T30	English Oak <i>Quercus robur</i>	12	avg 500	5	EM	F / G	Branch stubs evident Characteristic for species Dense undergrowth at the base Epicormic growth evident within the crown (>75mm) Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		113	6.0	B (i)
T31	Ash <i>Fraxinus excelsior</i>	14	est 350	6	M	F	Bark wounds noted Branch stubs evident Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Multi leadered form		55	4.2	C (i)
T32	English Oak <i>Quercus robur</i>	7	400	3.5	M	D	Dead trees noted Major dead wood evident in the crown (>75mm) Dead tree		N/A	N/A	U
T33	English Oak <i>Quercus robur</i>	18	850	N - 6 S - 10 E - 9 W - 5	M	F	Bark wounds noted Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown (>75mm) Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Pruning wounds noted Storm damage present Multiple large dead branches on lower main stem		327	10.2	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T34	Ash <i>Fraxinus excelsior</i>	14	340	4	EM	G	Bark wounds noted Minor dead wood evident in the crown (<75mm) Pruning wounds noted		52	4.1	B (i)
T35	Crab Apple <i>Malus sylvestris</i>	6	est 240	1	M	P	Bark wounds noted Broken branches evident Limited future potential Specimen in extensive decline		N/A	N/A	U
T36	Ash <i>Fraxinus excelsior</i>	14	310 320	4	EM	F	Branch stubs evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Multi stemmed from base		90	5.3	C (i)
T37	Crab Apple <i>Malus sylvestris</i>	6	est 220	2	M	F	Bark wounds noted Branch stubs evident Broken branches evident Limited future potential Minor dead wood evident in the crown (<75mm)		22	2.6	C (i)
T38	Norway Maple <i>Acer platanoides</i>	12	est 450	4	EM / M	G	Characteristic for species No major defects were noted Pruning wounds noted Situated offsite		92	5.4	B (i)
T39	Whitebeam <i>Sorbus aria</i>	6	est 240	3	M	G	Characteristic for species Close cultivation of the soil Situated offsite		26	2.9	B (i)
T40	Mountain Ash <i>Sorbus aucuparia</i>	2	200	1	SM	P	Bark wounds noted Heartwood exposed Major bark wound on west side of the stem extending from ground level to 2m		N/A	N/A	U
T41	English Oak <i>Quercus robur</i>	15	est 700	6	M	F	Branch socket cavities observed Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted Pruning wounds noted Situated offsite		222	8.4	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T42	Ash <i>Fraxinus excelsior</i>	11	Over ivy 450	4.5	EM	F	Basal suckers present Branch stubs evident Characteristic for species Close cultivation of the soil Dense ivy cover on main stem Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm)	92	5.4	C (i)	
T43	Ash <i>Fraxinus excelsior</i>	11	280 190 240	4.5	EM	F	Basal suckers present Branch stubs evident Characteristic for species Close cultivation of the soil Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Old bundle planting or coppice	78	5.0	C (i)	
T44	Hawthorn <i>Crataegus monogyna</i>	1.5	upto 75 75 75	0.5	EM	F	Three separate sections with gaps inbetween Maintained	8	1.6	B (i)	
T45	Hawthorn <i>Crataegus monogyna</i> Hazel <i>Corylus avellana</i>	1.5	upto 75 75 75	0.5	EM	F	Contains a small section of hazel to the west of the gateway Laid form Maintained	8	1.6	B (i)	
T46	English Oak <i>Quercus robur</i>	10	Over ivy 420	4	EM	G	Characteristic for species Close cultivation of the soil Light ivy cover No major defects were noted	80	5.0	B (i)	
T47	Common Lime <i>Tilia x europaea</i>	12	330 240 190	4	EM	G	Basal suckers present Characteristic for species Close cultivation of the soil Crossing and rubbing branches Low crown form No major defects were noted	92	5.4	B (i)	

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							RPA	RPA			
T48	Common Lime <i>Tilia x europaea</i>	12	280	4	EM	G	Basal suckers present Characteristic for species Close cultivation of the soil Crossing and rubbing branches Low crown form No major defects were noted	35	3.4	B (i)	
T49	Sycamore <i>Acer pseudoplatanus</i>	11	300	2	EM	G	Basal suckers present Characteristic for species Close cultivation of the soil Crossing and rubbing branches Low crown form Multi leadered form No major defects were noted	41	3.6	B (i)	
T50	Common Lime <i>Tilia x europaea</i>	14	330 360 300 290 310	4	EM	G	Branch stubs evident Characteristic for species Close cultivation of the soil Crossing and rubbing branches Low crown form Multi stemmed from base No major defects were noted	230	8.6	B (i)	
T51	Norway Maple <i>Acer platanoides</i>	10	300	3	SM / EM	G	Characteristic for species Close cultivation of the soil	41	3.6	B (i)	
T52	English Oak <i>Quercus robur</i>	15	820	N - 5 S - 6 E - 5 W - 8	M	F	Bark wounds noted Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Storm damage present Cavity south side at 3.5m - possible previous limb failure	304	9.8	B (i)	
T53	Common Lime <i>Tilia x europaea</i>	10	540	3.5	EM	G	Characteristic for species Close cultivation of the soil Crossing and rubbing branches Low crown form Multi stemmed from base No major defects were noted	132	6.5	B (i)	
T54	English Oak <i>Quercus robur</i>	14	620	5	EM	F / G	Branch stubs evident Close cultivation of the soil Low crown form Minor dead wood evident in the crown (<75mm) Multi leadered form	174	7.4	B (i)	

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	Radius			
T55	English Oak <i>Quercus robur</i>	14	900	5	EM	F / G	Branch stubs evident Close cultivation of the soil Dense ivy cover on main stem Dense undergrowth at the base Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted Exposed roots at base Situated on steep bank	366	10.8	B (i)	
T56	English Oak <i>Quercus robur</i>	15	910	5	M	F	Bark wounds noted Branch stubs evident Characteristic for species Close cultivation of the soil Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted Central stem or central most leader failed at 6m resulting in large dead stub Multiple wounds and stubs from previous limb failure throughout crown	375	10.9	B (i)	
T57	English Oak <i>Quercus robur</i>	14	1010	6	M	F	Bark wounds noted Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form	461	12.1	B (i)	
T58	English Oak <i>Quercus robur</i>	9	Over ivy 340	3.5	EM	G	Dense undergrowth at the base Low crown form Multi leadered form No major defects were noted	52	4.1	B (i)	
T59	Sycamore <i>Acer pseudoplatanus</i>	14	680	7	M	G	Basal suckers present Branch stubs evident Epicormic growth evident within the crown Light ivy cover Minor dead wood evident in the crown (<75mm) No major defects were noted Sparse in appearance	209	8.2	B (i)	

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
T60	English Oak <i>Quercus robur</i>	18	1120	6	M	F	Branch socket cavities observed Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Major dead wood evident in the crown (>75mm) Splits and seams along lengthy of several branches Fibre buckling at 1m on main stem	567	13.4	B (i)		
T61	English Oak <i>Quercus robur</i>	17	Over ivy 900	N - 6 S - 8 E - 6 W - 3	M	F	Dense ivy cover on main stem Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted	366	10.8	B (i)		
T62	English Oak <i>Quercus robur</i>	10	est 1000	3	M	F	Branch stubs evident Crown had been heavily reduced Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) <i>Laetiporus sulphureus</i> Chicken of the wood/Sulphur Polypore	452	12.0	B (i)		
T63	English Oak <i>Quercus robur</i>	12	Over ivy 810	7	M	F	Bark wounds noted Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Light ivy cover Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Benefit from remedial management	297	9.7	B (i)		
T64	English Oak <i>Quercus robur</i>	12	est 810	7	M	F	Bark wounds noted Branch stubs evident Close cultivation of the soil Dieback of the crown observed Epicormic growth evident within the crown Light ivy cover Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Benefit from remedial management	297	9.7	B (i)		

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
							RPA	RPA Radius	BS5837 Cat			
T65	English Oak <i>Quercus robur</i>	13	850	5	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Dense undergrowth at the base Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted	327	10.2	B (i)		
T66	English Oak <i>Quercus robur</i>	14	est 750	5	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Dense undergrowth at the base Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted Storm damage present	254	9.0	B (i)		
T67	English Oak <i>Quercus robur</i>	13	Over ivy 600 300	6	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Dense ivy cover on main stem Dense undergrowth at the base Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Storm damage present	204	8.0	B (i)		
T68	English Oak <i>Quercus robur</i>	11	est 300	4.5	EM	G	No major defects were noted Situated offsite Unable to gain access	41	3.6	A (i)		
T69	Damson <i>Prunus insititia</i>	4	est 180	2	EM	G	Characteristic for species Close cultivation of the soil	15	2.2	B (i)		
T70	English Oak <i>Quercus robur</i>	16	Over ivy 1270	9	M	F / G	Bark wounds noted Branch socket cavities observed Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown (>75mm) Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Storm damage present Large wounds on lower main stem - west side - 1m in length Several large live stubs	707	Capped at 15m	B (i)		

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T71	Alder <i>Alnus glutinosa</i>	9	est 300 250	3	EM	F / G	Characteristic for species Limited future potential No major defects were noted		69	4.7	C (i)
T72	English Oak <i>Quercus robur</i>	18	1020	7	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Multiple fungal brackets around base of tree <i>Inonotus dryadeus</i>		471	12.2	B (i)
T73	English Oak <i>Quercus robur</i>	16	1070	6	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted		518	12.8	B (i)
T74	English Oak <i>Quercus robur</i>	14	690	6	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Elder at base		215	8.3	B (i)
T75	English Oak <i>Quercus robur</i>	13	810	6	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Elder at base Large cavity on southern most main leader - failed at 8m leaving large stub of 3m in length - stub hollowed with severe decay		297	9.7	C (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T76	English Oak <i>Quercus robur</i>	15	1000	8	M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted Benefit from remedial management		452	12.0	B (i)
T77	English Oak <i>Quercus robur</i>	14	670	6	M	G	Branch socket cavities observed Close cultivation of the soil Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted		203	8.0	B (i)
T78	English Oak <i>Quercus robur</i>	14	720	7	M	F / G	Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		235	8.6	B (i)
T79	English Oak <i>Quercus robur</i>	14	710	6	M	G	Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted		228	8.5	A (i)
T80	English Oak <i>Quercus robur</i>	9	470		N - 3 S - 6 E - 5 W - 1	M	Bark wounds noted Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Suppressed crown form		100	5.6	B (i)
T81	English Oak <i>Quercus robur</i>	11	780	5	M	G	Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Included bark union Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted		275	9.4	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
T82	Alder <i>Alnus glutinosa</i>	14	300 330 370 380 290	5	M	F / G	Characteristic for species Close cultivation of the soil Dense ivy cover on main stem Dense undergrowth at the base Multi stemmed from base No major defects were noted Edge of plantation			255	9.0	B (i)
T83	English Oak <i>Quercus robur</i>	5	220	N - 0.5 S - 2 E - 1 W - 3	EM	P / F	Bark wounds noted Heartwood exposed Limited future potential			22	2.6	C (i)
T84	Norway Maple <i>Acer platanoides</i>	14	est 370	N - 6 S - 6 E - 6 W - 2	EM	F	Dense undergrowth at the base Included bark union Minor dead wood evident in the crown (<75mm) Overhead cables Pruning wounds noted			62	4.4	C (i)
T85	English Oak <i>Quercus robur</i>	16	950	8	M	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form			408	11.4	A (i)
T86	English Oak <i>Quercus robur</i>	15	630	7	M	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form			180	7.6	A (i)
T87	English Oak <i>Quercus robur</i>	12	860	7	M	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form			335	10.3	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
T88	Field Maple <i>Acer campestre</i>	10	340	4	EM	F	Flail damage evident Included bark union Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form			52	4.1	B (i)
T89	English Oak <i>Quercus robur</i>	12	est 680	8	EM	F	Broken branches evident Dense undergrowth at the base Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Typical crown form			209	8.2	B (i)
T90	English Oak <i>Quercus robur</i>	15	est 650	7	EM	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Root damage to east			191	7.8	B (i)
T91	English Oak <i>Quercus robur</i>	9	230	4	SM	F	Bark wounds noted Minor dead wood evident in the crown (<75mm) Suppressed crown form Climber in crown			24	2.8	C (i)
T92	English Oak <i>Quercus robur</i>	10	380	5	EM	F	Branch stubs evident Broken branches evident Minor dead wood evident in the crown (<75mm) Suppressed crown form			65	4.6	C (i)
T93	English Oak <i>Quercus robur</i>	16	660	8	EM	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm)			197	7.9	B (i)
T94	English Oak <i>Quercus robur</i>	14	900	8	M	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Typical crown form			366	10.8	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T95	English Oak <i>Quercus robur</i>	17	1150	10	M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Close cultivation of the soil Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Typical crown form Woodpecker holes observed			598	13.8	A (i)
T96	English Oak <i>Quercus robur</i>	17	940	9	M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Close cultivation of the soil Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Woodpecker holes observed		400	11.3	A (i)	
T97	English Oak <i>Quercus robur</i>	12	est 750	7	M	P	Branch socket cavities observed Branch stubs evident Dieback of the crown observed Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Specimen in extensive decline		254	9.0	C (i)	
T98	English Oak <i>Quercus robur</i>	13	820	8	M	F	Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form		304	9.8	A (i)	
T99	English Oak <i>Quercus robur</i>	9	450	5	EM	F	Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form		92	5.4	B (i)	

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
T100	English Oak <i>Quercus robur</i>	8	430	4	SM	F	Branch stubs evident Close cultivation of the soil Crossing and rubbing branches Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form			84	5.2	B (i)
T101	Ash <i>Fraxinus excelsior</i>	14	est 700	9	M	P	Base obscured Branch stubs evident Broken branches evident Close cultivation of the soil Dense undergrowth at the base Dieback of the crown observed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Multiple fungal brackets <i>Inonotus hispidus</i> , Shaggy bracket			222	8.4	C (i)
T102	Hybrid Black Poplar <i>Populus x canadensis</i>	15	est 900	12	M	P	Bark wounds noted Branch stubs evident Broken branches evident Dense ivy cover on main stem Dieback of the crown observed Lateral lever arm observed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Specimen in extensive decline			366	10.8	C (i)
T103	English Oak <i>Quercus robur</i>	14	est 600	12	M	G	Base obscured Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form			163	7.2	A (i)
T104	lime sp	6	140 150 260 80 130	3	M	F	Crossing and rubbing branches Included bark union Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base			60	4.4	C (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T105	Wild Cherry <i>Prunus avium</i>	6	170 170 170	4	SM	P	Crossing and rubbing branches Included bark union Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base			39	3.5	C (i)
T106	lime sp	6	6x 150	3	EM	F	Crossing and rubbing branches Included bark union Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base			61	4.4	C (i)
T107	Field Maple <i>Acer campestre</i>	6	150 150 150	4	EM	F	Crossing and rubbing branches Included bark union Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base Outgrown goat willow to west			31	3.1	C (i)
T108	English Oak <i>Quercus robur</i>	11	650	6	EM	P	Branch stubs evident Broken branches evident Dieback of the crown observed Epicormic growth evident within the crown Flail damage evident Minor dead wood evident in the crown (<75mm) Sparse crown Outgrown goat willow to west			191	7.8	C (i)
T109	English Oak <i>Quercus robur</i>	9	400	5	EM	F	Base obscured Branch stubs evident Broken branches evident Crossing and rubbing branches Epicormic growth evident within the crown Flail damage evident Minor dead wood evident in the crown (<75mm)			72	4.8	C (i)
T110	English Oak <i>Quercus robur</i>	9	420	5	EM	F	Base obscured Branch stubs evident Broken branches evident Crossing and rubbing branches Epicormic growth evident within the crown Flail damage evident Minor dead wood evident in the crown (<75mm)			80	5.0	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T111	English Oak <i>Quercus robur</i>	7	est 700	5	M	F	Base obscured Branch stubs evident Broken branches evident Crossing and rubbing branches Dieback of the crown observed Epicormic growth evident within the crown Flail damage evident Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)			222	8.4	B (i)
T112	English Oak <i>Quercus robur</i>	11	640	7	EM	F	Branch stubs evident Broken branches evident Close cultivation of the soil Crossing and rubbing branches Epicormic growth evident within the crown Flail damage evident Low crown form Minor dead wood evident in the crown (<75mm) Laetiporus sulphureus Chicken of the wood/Sulphur Polypore			185	7.7	A (i)
T113	English Oak <i>Quercus robur</i>	5	340	2	EM	P	Base obscured Branch stubs evident Broken branches evident Crossing and rubbing branches Dieback of the crown observed Epicormic growth evident within the crown Flail damage evident Minor dead wood evident in the crown (<75mm) Specimen in extensive decline			52	4.1	C (i)
T114	English Oak <i>Quercus robur</i>	7	470	4	EM	D	Standing dead tree			N/A	N/A	U
T115	English Oak <i>Quercus robur</i>	12	770	8	M	G	Branch stubs evident Broken branches evident Close cultivation of the soil Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Typical crown form			268	9.2	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T116	English Oak <i>Quercus robur</i>	12	560	7	EM	G	Branch stubs evident Broken branches evident Close cultivation of the soil Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Typical crown form		142	6.7	A (i)
T117	2 Hawthorn <i>Crataegus monogyna</i>	6	250 180 100	N - 1 S - 2 E - 2 W - 3	EM	D	Outgrown hedgerow Pruned to 4m high on the north and south sides		N/A	N/A	U
T118	2 Holly <i>Ilex aquifolium</i>	5	350	N - 2 S - 3 E - 1 W - 1	EM	P / F	Has been pruned on east and west sides as part of the maintained hedgerow Some minor exposed heartwood on stems with signs of decay where mechanical damage has occurred through hedge maintenance		55	4.2	B (i)
T119	English Oak <i>Quercus robur</i>	16	est 850	10	EM / M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Positioned next to pond		327	10.2	A (i)
T120	English Oak <i>Quercus robur</i>	12	715	N - 3 S - 5 E - 5 W - 5	M	F	Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Overhead cables Pruning wounds noted Provide clearance from overhead lines		231	8.6	B (i)
T121	English Oak <i>Quercus robur</i>	16	920	5	M	P	Bark wounds noted Branch socket cavities observed Dieback of the crown observed Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Lightning strike Laetiporus sulphureus Chicken of the wood/Sulphur Polypore		383	11.0	C (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
							RPA	RPA Radius	BS5837 Cat			
T122	English Oak <i>Quercus robur</i>	13	722	5	M	G	Branch socket cavities observed Characteristic for species Close cultivation of the soil Dieback of the crown observed Major dead wood evident in the crown (>75mm) Woodpecker holes observed	236	8.7	C (i)		
T123	English Oak <i>Quercus robur</i>	11	670	7	M	F	Bark wounds noted Basal cavity observed Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) <i>Laetiporus sulphureus</i> , Chicken of the wood/Sulphur Polypore	203	8.0	C (i)		
T124	English Oak <i>Quercus robur</i>	11	8x 320	6	M	F	Branch stubs evident Epicormic growth evident within the crown (>75mm) Minor dead wood evident in the crown (<75mm) Multi stemmed from base Pruning wounds noted	371	10.9	B (i)		
T125	English Oak <i>Quercus robur</i>	16	1320	7	M	F	Close cultivation of the soil Crossing and rubbing branches Epicormic growth evident within the crown Included bark union Light ivy cover Minor dead wood evident in the crown (<75mm) Pruning wounds noted	707	Capped at 15m	B (i)		
T126	Alder <i>Alnus glutinosa</i>	11	est 410 650	5	M	F	Branch socket cavities observed Branch stubs evident Characteristic for species Minor dead wood evident in the crown (<75mm)	267	9.2	C (i)		
T127	Alder <i>Alnus glutinosa</i>	6	80 80	1.5	SM	P	Low crown form Sporadic self-seeded group of trees Twin stemmed from base	6	1.4	C (i)		
T128	English Oak <i>Quercus robur</i>	8	300	3	SM	F	Characteristic for species Flail damage evident Low crown form	41	3.6	C (i)		
T129	English Oak <i>Quercus robur</i>	16	1080	7	M	F	Branch stubs evident Broken branches evident Crossing and rubbing branches Epicormic growth evident within the crown (>75mm) Major dead wood evident in the crown (>75mm)	528	13.0	A (i)		

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T130	English Oak <i>Quercus robur</i>	16	920	8	M	G	Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm)			383	11.0	A (i)
T131	English Oak <i>Quercus robur</i>	11	747	4	M	D	Major dead wood evident in the crown (>75mm) Standing dead tree			N/A	N/A	U
T132	English Oak <i>Quercus robur</i>	16.5	1080	7	M	F	Basal cavity observed Branch stubs evident Broken branches evident Close cultivation of the soil Dieback of the crown observed Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm)			528	13.0	B (i)
T133	Common Lime <i>Tilia x europaea</i>	16	est 350 580	4	EM	F	Characteristic for species Low crown form No major defects were noted Twin stemmed from base			208	8.1	B (i)
T134	Turkey Oak <i>Quercus cerris</i>	11	850	4	M	F	Bark wounds noted Epicormic growth evident within the crown Heartwood exposed Low crown form Minor dead wood evident in the crown (<75mm) Situated on top of field bounding ditch			327	10.2	B (i)
T135	Alder <i>Alnus glutinosa</i>	7	est 360	3	EM	F	Characteristic for species Dense ivy cover on main stem Dense undergrowth at the base Low crown form			59	4.3	C (i)
T136	Hawthorn <i>Crataegus monogyna</i>	6	est 220	2	EM / M	F	Characteristic for species Dense undergrowth at the base Flail damage evident Heartwood exposed Holly at base			22	2.6	C (i)
T137	English Oak <i>Quercus robur</i>	7	est 580	4	EM	F	Characteristic for species Close cultivation of the soil Dense ivy cover on main stem Dense undergrowth at the base Epicormic growth evident within the crown Low crown form			152	7.0	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA Radius	RPA	BS5837 Cat
							RPA	RPA	Radius			
T138	English Oak <i>Quercus robur</i>	9	290 150	3	EM	G	Characteristic for species Multi stemmed from base No major defects were noted			48	3.9	B (i)
T139	Alder <i>Alnus glutinosa</i>	4.5	320	2.5	EM	P / F	Bark wounds noted Branch stubs evident Heartwood exposed Low crown form Minor dead wood evident in the crown (<75mm)			N/A	N/A	U
T140	Alder <i>Alnus glutinosa</i>	10	800	3.5	M	F	Bark wounds noted Basal suckers present Branch socket cavities observed Branch stubs evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Main stem failed at 5m Epicormic regrowth established			290	9.6	C (i)
T141	Alder <i>Alnus glutinosa</i>	9	8x 200	3.5	M	F	Basal suckers present Characteristic for species Close cultivation of the soil Coppiced form Low crown form Multi stemmed from base			145	6.8	B (i)
T142	English Oak <i>Quercus robur</i>	7	240	2.5	SM	F / G	Close cultivation of the soil Crown had been topped Epicormic growth evident within the crown			26	2.9	B (i)
T143	English Oak <i>Quercus robur</i>	12	730	5	M	F	Bark wounds noted Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm)			241	8.8	B (i)
T144	English Oak <i>Quercus robur</i>	13	est 800	6	M	F	Bark wounds noted Branch stubs evident Characteristic for species Compacted ground at the base Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted			290	9.6	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T145	Holly <i>Ilex aquifolium</i>	8	est 310	3	M	F	Branch stubs evident Flail damage evident Limited future potential			43	3.7	C (i)
T146	Horse Chestnut <i>Aesculus hippocastanum</i>	15	850	8	M	F	Bark wounds noted Branch socket cavities observed Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Low crown form Resin / sap runs on stem <i>Pseudomonas syringae</i> pv. <i>aesculi</i> , Bleeding canker of horse chestnut			327	10.2	C (i)
T147	Horse Chestnut <i>Aesculus hippocastanum</i>	15	est 950	4	M	D / P	Bark wounds noted Branch socket cavities observed Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Heartwood exposed Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Resin / sap runs on stem <i>Pseudomonas syringae</i> pv. <i>aesculi</i> , Bleeding canker of horse chestnut			N/A	N/A	U
T148	Hybrid Black Poplar <i>Populus x canadensis</i>	9	est 250	3	SM	P	Bark wounds noted Base obscured Broken branches evident Compacted ground at the base			28	3.0	C (i)
T149	Common Lime <i>Tilia x europea</i>	6	190	3	SM	F	Low crown form No major defects were noted			16	2.3	C (i)
T150	Ash <i>Fraxinus excelsior</i>	8	140 100 210	N - 5 S - 1 E - 3 W - 1	M	P	Branch stubs evident Broken branches evident Multi stemmed from coppice stool Adjacent to access road			33	3.3	C (i)
T151	English Oak <i>Quercus robur</i>	8	340	3.5	SM	F	Broken branches evident Low crown form Adjacent to access road			52	4.1	B (i)
T152	Wild Cherry <i>Prunus avium</i>	6	est 300	3	EM	F	Multi leadered form No major defects were noted Adjacent to access road			41	3.6	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA Radius	RPA	BS5837 Cat
							RPA	RPA	Radius			
T153	English Oak <i>Quercus robur</i>	5	1000	3	V	F	Crown regrowth from large stump Heartwood decay evident			707	15.0	A (i)
T154	English Oak <i>Quercus robur</i>	7	260	3	SM	F	Broken branches evident No major defects were noted Adjacent to access road			31	3.1	B (i)
T155	English Oak <i>Quercus robur</i>	7	340	3.5	SM	F	Broken branches evident Low crown form Adjacent to access road			52	4.1	B (i)
T156	Wild Cherry <i>Prunus avium</i>	6	100	2	Yng	F	Adjacent to access road			5	1.2	C (i)
T157	Wild Cherry <i>Prunus avium</i>	6	100	2	Yng	F	Adjacent to access road			9	1.7	C (i)
T158	English Oak <i>Quercus robur</i>	7	120	2	Yng	F	Adjacent to access road			7	1.4	C (i)
T159	English Oak <i>Quercus robur</i>	14	est 1100	7	V	F	Branch stubs evident Dense undergrowth at the base Dieback of the crown observed Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Stag heading			855	16.5	A (iii)
T160	Ash <i>Fraxinus excelsior</i>	13	530	N - 5 S - 4 E - 5 W - 2	M	P	Branch stubs evident Dense undergrowth at the base Dieback of the crown observed Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Hanging dead wood noted			127	6.4	C (i)
T161	English Oak <i>Quercus robur</i>	6	210	3	SM	G	Low crown form No major defects were noted			20	2.5	C (i)
T162	Ash <i>Fraxinus excelsior</i>	7	130	2	SM	G	No major defects were noted			8	1.6	C (i)
T163	English Oak <i>Quercus robur</i>	15	810	8	M	G	Characteristic for species Major dead wood evident in the crown (>75mm) No major defects were noted			297	9.7	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T164	Norway Maple <i>Acer platanoides</i>	6	350	3.5	EM	G	Low crown form Multi leadered form		55	4.2	B (i)
T165	English Oak <i>Quercus robur</i>	10	est 600	5	M	F	Base obscured Dense undergrowth at the base Light ivy cover Minor dead wood evident in the crown (<75mm)		163	7.2	B (i)
T166	English Oak <i>Quercus robur</i>	18	1500	10	V	G	Branch socket cavities observed Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Multi leadered form No major defects were noted		1590	22.5	A (iii)
T167	Sweet Chestnut <i>Castanea sativa</i>	18	est 1200	8	V	G	Bark wounds noted Basal suckers present Branch socket cavities observed Branch stubs evident Delaminating bark on main stem Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm)		1018	18.0	A (iii)
T168	English Oak <i>Quercus robur</i>	14	est 1100	7	V	G	Branch stubs evident Dense undergrowth at the base Even crown form Major dead wood evident in the crown (>75mm) Rpa excavated to north to a depth of 3m		855	16.5	A (iii)
T169	English Oak <i>Quercus robur</i>	13	est 1100	6	V	P	Basal cavity observed Branch stubs evident Broken branches evident Dense undergrowth at the base Dieback of the crown observed Epicormic growth evident within the crown Twin stem failed at 2m damaged limbs to north		855	16.5	A (iii)
T170	English Oak <i>Quercus robur</i>	15	900	8	M	F	Branch stubs evident Dense undergrowth at the base Even crown form Minor dead wood evident in the crown (<75mm) Rpa to West excavated to depth of 3m		366	10.8	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T171	English Oak <i>Quercus robur</i>	15	850	8	M	F	Bark wounds noted Branch stubs evident Minor dead wood evident in the crown (<75mm) Rpa to West and East excavated to depth of 3m	327	10.2	A (i)		
T172	English Oak <i>Quercus robur</i>	6	est 200	3	SM	P	Dense undergrowth at the base Dieback of the crown observed Minor dead wood evident in the crown (<75mm)	18	2.4	C (i)		
T173	English Oak <i>Quercus robur</i>	14	avg 400	6	EM	F	Branch stubs evident Broken branches evident Dense undergrowth at the base Interlocking crowns Major dead wood evident in the crown (>75mm)	72	4.8	B (ii)		
T174	English Oak <i>Quercus robur</i>	14	est 900	7	M	F	Branch stubs evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Multi leadered form <i>Laetiporus sulphureus</i> , Chicken of the wood/Sulphur Polypore	366	10.8	B (i)		
T175	English Oak <i>Quercus robur</i>	18	est 1100	8	V	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Multi leadered form Storm damage present	855	16.5	B (i)		
T176	English Oak <i>Quercus robur</i>	7	est 300	3	EM	F	Typical crown form Unable to gain access	41	3.6	B (i)		
T177	English Oak <i>Quercus robur</i>	8	est 630	4.5	M	F	Epicormic growth evident within the crown Main stem failed at 3m	180	7.6	C (i)		
T178	English Oak <i>Quercus robur</i>	15	est 1200	7	V	F	Branch socket cavities observed Branch stubs evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Flooded with silt to the north	1018	18.0	A (iii)		
T179	English Oak <i>Quercus robur</i>	9	est 460	5	EM	P	Dieback of the crown observed Minor dead wood evident in the crown (<75mm) Sparse crown Specimen in extensive decline Flooded at base with silt	96	5.5	C (i)		

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T180	English Oak <i>Quercus robur</i>	9	est 400	5	EM	D	Flooded at base with silt dead tree			N/A	N/A	U
T181	English Oak <i>Quercus robur</i>	9	est 400	5	EM	D	Flooded at base with silt dead tree			N/A	N/A	U
T182	English Oak <i>Quercus robur</i>	16	1080	7	M	F	Branch socket cavities observed Branch stubs evident Minor dead wood evident in the crown (<75mm) No major defects were noted			528	13.0	B (i)
T183	Common Lime <i>Tilia x europaea</i>	8	450	3	EM	F	Bark wounds noted Compacted ground at the base			92	5.4	B (i)
T184	English Oak <i>Quercus robur</i>	11	830	6	M	P	Branch socket cavities observed Broken branches evident Dieback of the crown observed Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm)			312	10.0	C (i)
T185	Common Lime <i>Tilia x europaea</i>	8	450	3	EM	F	Bark wounds noted Compacted ground at the base			92	5.4	B (i)
T186	English Oak <i>Quercus robur</i>	20	est 1000	8	M	G	Bark wounds noted Branch stubs evident Minor dead wood evident in the crown (<75mm)			452	12.0	A (i)
T187	English Oak <i>Quercus robur</i>	17	960	7	M	G	Bark wounds noted Branch stubs evident Minor dead wood evident in the crown (<75mm) Sparse crown			417	11.5	B (i)
T188	English Oak <i>Quercus robur</i>	22	1150	8	OM	G	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Soil bund burying the base by 1m			598	13.8	A (i)
T189	English Oak <i>Quercus robur</i>	17	900	6	M	G	Branch stubs evident Major dead wood evident in the crown (>75mm)			366	10.8	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat	
T190	English Oak <i>Quercus robur</i>	18	950	9	M	F	Bark wounds noted Broken branches evident Even crown form Major dead wood evident in the crown (>75mm) Soil bund up to stem on north and south side Rpa excavated to 3m on both sides		408	11.4	B (i)	
T191	English Oak <i>Quercus robur</i>	8	est 100 200 200	4	EM	F	Minor dead wood evident in the crown (<75mm) Multi leadered form Soil bund to north and south		41	3.6	C (i)	
T192	English Oak <i>Quercus robur</i>	11	est 400	6	EM	F	Base obscured Dense undergrowth at the base Even crown form No major defects were noted		72	4.8	B (i)	
T193	English Oak <i>Quercus robur</i>	10	est 400 350	5	EM	F	Branch stubs evident Broken branches evident Dense undergrowth at the base Minor dead wood evident in the crown (<75mm) Twin stemmed from base Gravel works surrounding		128	6.4	B (i)	
T194	English Oak <i>Quercus robur</i>	11	720	5	M	F	Branch stubs evident Broken branches evident Dense undergrowth at the base Minor dead wood evident in the crown (<75mm) Gravel works surrounding		235	8.6	B (i)	
T195	English Oak <i>Quercus robur</i>	8	est 6x 150	4	EM	F	Base obscured Branch stubs evident Broken branches evident Dense undergrowth at the base Minor dead wood evident in the crown (<75mm) Multi stemmed from base Gravel works surrounding			61	4.4	C (i)
T196	English Oak <i>Quercus robur</i>	12	550	5	EM	F	Branch stubs evident Dense undergrowth at the base Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Overhead cables Pruning wounds noted			137	6.6	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T197	English Oak <i>Quercus robur</i>	7	240	3	SM	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident			26	2.9	C (i)
T198	English Oak <i>Quercus robur</i>	16	740	6	M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Storm damage present			248	8.9	A (i)
T199	English Oak <i>Quercus robur</i>	7	220	N - 2 S - 2 E - 4 W - 0	SM	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident			22	2.6	C (i)
T200	English Oak <i>Quercus robur</i>	7	300 260	4	SM	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident			71	4.8	C (i)
T201	English Oak <i>Quercus robur</i>	14	750	6	M	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident Minor dead wood evident in the crown (<75mm) Pruning wounds noted			254	9.0	A (i)
T202	Hawthorn <i>Crataegus monogyna</i>	7	est 200 200	3	M	F	Base obscured Branch stubs evident Flail damage evident Minor dead wood evident in the crown (<75mm)			36	3.4	C (i)
T203	English Oak <i>Quercus robur</i>	16	800	7	M	F	Branch stubs evident Broken branches evident Close cultivation of the soil Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Typical crown form			290	9.6	A (i)
T204	English Oak <i>Quercus robur</i>	12	610	6	EM	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown (>75mm) Major dead wood evident in the crown (<75mm) Minor dead wood evident in the crown (<75mm) Typical crown form			168	7.3	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T205	English Oak <i>Quercus robur</i>	13	590	6	EM	F	Bark wounds noted Branch stubs evident Broken branches evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Typical crown form		157	7.1	A (i)
T206	English Oak <i>Quercus robur</i>	5	180	2	SM	F	Flail damage evident		15	2.2	C (i)
T207	English Oak <i>Quercus robur</i>	10	800	6	M	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Flail damage evident Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		290	9.6	A (i)
T208	Common Walnut <i>Juglans regia</i>	11	est 400 400	5	M	F	Branch stubs evident Browsing damage noted on main stem Low crown form Minor dead wood evident in the crown (<75mm) Twin stemmed from base		145	6.8	B (i)
T209	Sycamore <i>Acer pseudoplatanus</i>	10	est 10x 100	5	M	P	Branch stubs evident Broken branches evident Crossing and rubbing branches Crown had been topped Dense ivy cover on main stem Multi leadered form		45	3.8	C (i)
T210	Sycamore <i>Acer pseudoplatanus</i>	10	est 550	N - 5 S - 4 E - 2 W - 5	M	F	Basal suckers present Branch stubs evident Minor dead wood evident in the crown (<75mm)		137	6.6	B (i)
T211	English Oak <i>Quercus robur</i>	10	est 380	5	EM	F	Branch stubs evident Epicormic growth evident within the crown Flail damage evident Minor dead wood evident in the crown (<75mm)		65	4.6	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat	
T212	English Oak <i>Quercus robur</i>	16	1070	10	M	F	Bark wounds noted Branch socket cavities observed Branch stubs evident Broken branches evident Browsing damage noted on main stem Dieback of the crown observed Epicormic growth evident within the crown Flail damage evident Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Woodpecker holes observed Has veteran qualities apart from major hollowing			518	12.8	A (ii)
T213	English Oak <i>Quercus robur</i>	9	650	6	M	F	Bark wounds noted Branch stubs evident Broken branches evident Browsing damage noted on main stem Epicormic growth evident within the crown Flail damage evident Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		191	7.8	B (i)	
T214	English Oak <i>Quercus robur</i>	9	520	4	M	P	Branch stubs evident Dieback of the crown observed Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Sparse crown Specimen in extensive decline Soil mounded around base		122	6.2	C (i)	
T215	English Oak <i>Quercus robur</i>	15	1010	10	M	F	Bark wounds noted Branch stubs evident Broken branches evident Epicormic growth evident within the crown (>75mm) Major dead wood evident in the crown (<75mm) Minor dead wood evident in the crown (<75mm) Soil mounded around base		461	12.1	A (i)	

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T216	English Oak <i>Quercus robur</i>	17	1140	10	M	P	Bark wounds noted Branch stubs evident Broken branches evident Delaminating bark on main stem Dieback of the crown observed Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Specimen in extensive decline Potential transitional veteran stem hollowing not present		588	13.7	A (ii)
T217	English Oak <i>Quercus robur</i>	6	1000	4	M	F	Bark wounds noted Branch stubs evident Broken branches evident Dieback of the crown observed Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		452	12.0	A (i)
T218	English Oak <i>Quercus robur</i>	13	750	6	M	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted		254	9.0	A (i)
T219	English Oak <i>Quercus robur</i>	10	610	5	EM	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Small hawthorn to base		168	7.3	B (i)
T220	English Oak <i>Quercus robur</i>	14	650	6	M	F	Branch stubs evident Broken branches evident Browsing damage noted on main stem Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted		191	7.8	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	Radius			
T221	English Oak <i>Quercus robur</i>	16	730	6	M	F	Branch stubs evident Broken branches evident Browsing damage noted on main stem Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Sparse crown Woodpecker holes observed		241	8.8	B (i)
T222	English Oak <i>Quercus robur</i>	18	1230	10	V	F	Branch stubs evident Broken branches evident Browsing damage noted on main stem Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Storm damage present Veteran in age but does not meet criteria		1069	18.5	A (ii)
T223	English Oak <i>Quercus robur</i>	15	750	8	M	F	Branch stubs evident Broken branches evident Browsing damage noted on main stem Epicormic growth evident within the crown Heartwood exposed Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Poached ground at the base Storm damage present		254	9.0	A (i)
T224	English Oak <i>Quercus robur</i>	15	880	8	M	F	Branch stubs evident Broken branches evident Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Poached ground at the base		350	10.6	A (i)
T225	English Oak <i>Quercus robur</i>	16	800	7	M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Dense undergrowth at the base Epicormic growth evident within the crown Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		290	9.6	A (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T226	Goat Willow <i>Salix caprea</i>	4	220	N - 2 S - 0 E - 2 W - 0	M	P	Bark wounds noted Browsing damage noted on main stem Low crown form		22	2.6	C (i)
T227	English Oak <i>Quercus robur</i>	8	600	N - 2 S - 5 E - 5 W - 5	M	F	Branch stubs evident Dense undergrowth at the base Minor dead wood evident in the crown (<75mm)		163	7.2	B (i)
T228	English Oak <i>Quercus robur</i>	8	est 220 120 180	3	M	F	Branch stubs evident Dense undergrowth at the base Minor dead wood evident in the crown (<75mm) Multi stemmed from base		43	3.7	C (i)
T229	English Oak <i>Quercus robur</i>	6	est 200	3	SM	F	Branch stubs evident Dense undergrowth at the base Minor dead wood evident in the crown (<75mm)		18	2.4	C (i)
T230	Holly <i>Ilex aquifolium</i>	6	est 200	3	EM	F	Base obscured Dense undergrowth at the base		18	2.4	C (i)
T231	English Oak <i>Quercus robur</i>	8	225 260 380 360	3.5	EM	F	Bark wounds noted Branch stubs evident Browsing damage noted on main stem Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm)		177	7.5	C (i)
T232	English Oak <i>Quercus robur</i>	7	245	3	EM	F	Epicormic growth evident within the crown Low crown form No major defects were noted Poached ground at the base		27	2.9	B (i)
T233	English Oak <i>Quercus robur</i>	7	566	4	EM / M	F	Bark wounds noted Branch socket cavities observed Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Poached ground at the base Small and compact form		145	6.8	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T234	Lombardy Poplar <i>Populus nigra 'Italica'</i>	17	est 565	1	EM	F / G	Characteristic for species No major defects were noted Situated within 2m of road		144	6.8	B (i)
T235	Lombardy Poplar <i>Populus nigra 'Italica'</i>	21	est 780	2	EM	F / G	Characteristic for species Dense undergrowth at the base Included bark union Multi leadered form No major defects were noted Situated within 2m of road		275	9.4	C (i)
T236	Lombardy Poplar <i>Populus nigra 'Italica'</i>	18	est 450	1.5	EM	F / G	Base obscured Characteristic for species Dense undergrowth at the base No major defects were noted Situated within 2m of road		92	5.4	B (i)
T237	Lombardy Poplar <i>Populus nigra 'Italica'</i>	18	est 430	1.5	EM	F / G	Base obscured Characteristic for species Dense undergrowth at the base No major defects were noted Situated within 2m of road		84	5.2	B (i)
T238	English Oak <i>Quercus robur</i>	8.5	252 326	3.5	EM	F	Branch stubs evident Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base Hedgeow tree		77	4.9	B (i)
T239	Lombardy Poplar <i>Populus nigra 'Italica'</i>	14	330	1	EM	G	Characteristic for species No major defects were noted		49	4.0	B (i)
T240	English Oak <i>Quercus robur</i>	12	Over ivy 550 430	3.5	EM	F	Branch stubs evident Dense ivy cover on main stem Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted Hedgeow tree		220	8.4	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T241	English Oak <i>Quercus robur</i>	7	650	3.5	EM / M	F	Branch stubs evident Browsing damage noted on main stem Crossing and rubbing branches Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted Hedgerow tree			191	7.8	B (i)
T242	Alder <i>Alnus glutinosa</i>	7.5	195	2	SM	F	Characteristic for species No major defects were noted Poached ground at the base Pruning wounds noted			17	2.3	C (i)
T243	Alder <i>Alnus glutinosa</i>	8	204	2	SM	F	Bark wounds noted Characteristic for species Multi leadered form No major defects were noted Poached ground at the base Pruning wounds noted			19	2.4	C (i)
T244	Silver Birch <i>Betula pendula</i>	16	295 287	3	EM	F	Bark wounds noted Branch stubs evident Broken branches evident Multi stemmed from base Surrounded by ash and oak of a young age			77	4.9	B (i)
T245	Silver Birch <i>Betula pendula</i>	16	est 330 250	3.5	M	F	Base obscured Characteristic for species Dense ivy cover on main stem Dense undergrowth at the base Multi stemmed from base No major defects were noted			78	5.0	B (i)
T246	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	16	est 300	2	EM / M	G	Base obscured Characteristic for species Dense undergrowth at the base			41	3.6	B (i)
T247	Silver Birch <i>Betula pendula</i>	16	est 360	3	EM / M	G	Base obscured Characteristic for species No major defects were noted			59	4.3	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
T248	English Oak <i>Quercus robur</i>	16	est 560	6	M	F	Bark wounds noted Branch stubs evident Characteristic for species Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Pruning wounds noted			142	6.7	B (i)
T249	Crab Apple <i>Malus sylvestris</i>	4	210	2	EM / M	F	Bark wounds noted Heartwood exposed Light ivy cover Limited future potential No major defects were noted			20	2.5	C (i)
T250	English Oak <i>Quercus robur</i>	10	612	6	M	G	Branch stubs evident Characteristic for species Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) No major defects were noted Pruning wounds noted			169	7.3	B (i)
T251	English Oak <i>Quercus robur</i>	3	100	1	Yng	G	Young tree planted amongst shrub mass			5	1.2	C (i)
T252	English Oak <i>Quercus robur</i>	7	780	N - 5 S - 1 E - 4 W - 4	EM	G	Branch stubs evident Characteristic for species Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted Pruning wounds noted Large stem due to three leaders which have grown together (fused)			275	9.4	B (i)
T253	English Oak <i>Quercus robur</i>	7	710	7	M	G	Branch stubs evident Characteristic for species Epicormic growth evident within the crown Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted Pruning wounds noted Tree tagged multiple times Phone lime runs through crown			228	8.5	B (i)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T254	English Oak <i>Quercus robur</i>	14	656	5	EM / M	G	Branch stubs evident Light ivy cover Minor dead wood evident in the crown (<75mm) No major defects were noted Overhead cables Pruning wounds noted Tag number 0040		195	7.9	B (i)
T255	English Oak <i>Quercus robur</i>	14	785	6.5	EM / M	G	Bark wounds noted Branch stubs evident Light ivy cover Minor dead wood evident in the crown (<75mm) No major defects were noted Overhead cables Pruning wounds noted		279	9.4	B (i)
T256	Crab Apple <i>Malus sylvestris</i>	4.5	220	2	EM / M	G	Characteristic for species Pruning wounds noted		22	2.6	B (i)
T257	Sycamore <i>Acer pseudoplatanus</i>	11	400	5	M	F	Bark wounds noted Basal suckers present Branch stubs evident Minor dead wood evident in the crown (<75mm)		72	4.8	C (ii)
T258	English Oak <i>Quercus robur</i>	7	270	3	EM	G	Bark wounds noted Even crown form No major defects were noted Damage to trunk appears to be caused by vehicle collision		33	3.2	B (ii)
T259	English Oak <i>Quercus robur</i>	6.5	300	3	EM	F	Even crown form No major defects were noted Stem has an s shape		41	3.6	C (ii)
T260	English Oak <i>Quercus robur</i>	6	Over ivy 340	2.5	EM	F	Crown had been topped Dense ivy cover on main stem Even crown form Pollarded form(s) Suspect crown has been topped possibly naturally but ivy obscures views		52	4.1	B (ii)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA Radius	RPA	BS5837 Cat
							RPA	Radius			
T261	English Oak <i>Quercus robur</i>	14	Over ivy 760	6	M	F	Broken branches evident Dense ivy cover on main stem Established ivy cover Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Sparse crown Showing signs of crown decline Ivy cover high in to the crown extending along most primary laterals	261	9.1	B (ii)	
T262	English Oak <i>Quercus robur</i>	12	Over ivy 680	6	M	G	Characteristic for species Dense ivy cover on main stem Established ivy cover Even crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted	209	8.2	A (ii)	
T263	English Oak <i>Quercus robur</i>	15	Over ivy 1300	8	M	G	Branch stubs evident Broken branches evident Characteristic for species Dense ivy cover on main stem Established ivy cover Even crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)	707	Capped at 15m	A (i),A (ii)	
T264	English Oak <i>Quercus robur</i>	16	850	N - 6 S - 9 E - 7 W - 9	M	F	Branch stubs evident Broken branches evident Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)	327	10.2	B (ii)	
T265	English Oak <i>Quercus robur</i>	9	Over ivy 900	N - 4 S - 6 E - 7 W - 7	M	F	Branch stubs evident Dense ivy cover on main stem Established ivy cover Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Crown in clear decline	366	10.8	B (ii)	
T266	English Oak <i>Quercus robur</i>	12	Over ivy 1100	N - 3 S - 5 E - 5 W - 5	M	G	Base obscured Branch stubs evident Dense ivy cover on main stem Established ivy cover Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Largest specimen of the roadside group	547	13.2	A (ii)	

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
T267	English Oak <i>Quercus robur</i>	7	est 400	5	M	F	Branch stubs evident Broken branches evident Minor dead wood evident in the crown (<75mm) Pruning wounds noted Situated offsite Unable to gain access			72	4.8	B (ii)
T268	Common Lime <i>Tilia x europaea</i>	8	est 8x 250	4	M	G	Basal suckers present Coppiced form Even crown form Multi stemmed from base Corner of field Wasps present at time of survey so assessment made from safe distance			226	8.5	B (ii)
T269	English Oak <i>Quercus robur</i>	7	450	5	EM	G	Even crown form No major defects were noted			92	5.4	A (i), A (ii)
T270	English Oak <i>Quercus robur</i>	6.5	370 350	3	M	F	Low crown form Twin stemmed from base Compact form and stems misshapen			117	6.1	B (ii)
T271	English Oak <i>Quercus robur</i>	8.5	430	5	EM	G	Characteristic for species Even crown form Low crown form No major defects were noted			84	5.2	A (ii)
T272	English Oak <i>Quercus robur</i>	7.5	400	5	EM	G	Characteristic for species Even crown form Low crown form No major defects were noted			72	4.8	A (ii)
T273	English Oak <i>Quercus robur</i>	8.5	250 300 360	5	EM	G	Even crown form Low crown form No major defects were noted			128	6.4	A (ii)
T274	English Oak <i>Quercus robur</i>	6	250 350	3	M	F	Failed trees Specimen has partially uprooted in the past and now leans east Has regained stability it appears and crown is evenly balanced			84	5.2	C (ii)
T275	English Oak <i>Quercus robur</i>	9	710	5	M	G	Characteristic for species Even crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted			228	8.5	A (ii)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat		
T276	English Oak <i>Quercus robur</i>	18	1260	9	V	G	Browsing damage noted on main stem Characteristic for species Even crown form Heartwood exposed Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Pruning wounds noted Storm damage present Typical crown form Prominent side lateral buttress south side which has been damaged possibly through horse browsing Future transitional veteran <i>Fistulina hepatica</i> , Beefsteak fungus <i>Laetiporus sulphureus</i> , Chicken of the wood/Sulphur Polypore		1122	18.9	A (i),A (ii),A (iii)		
T277	English Oak <i>Quercus robur</i>	6	210	3	EM	G	Characteristic for species Even crown form No major defects were noted		20	2.5	A (ii)		
T278	Ash <i>Fraxinus excelsior</i>	11	6x 350	5	M	G	Coppiced form Old aid forms Single tree with multiple upright stems		333	10.3	B (ii)		
T279	English Oak <i>Quercus robur</i>	13	1450	7	V	G	Bark wounds noted Basal cavity observed Branch socket cavities observed Branch stubs evident Broken branches evident Browsing damage noted on main stem Characteristic for species Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Pruning wounds noted Future transitional veteran <i>Laetiporus sulphureus</i> , Chicken of the wood/Sulphur Polypore		1486	21.8	A (i),A (ii),A (iii)		
T280	English Oak <i>Quercus robur</i>	11	280 470 440	5	M	G	Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted		223	8.4	A (ii)		

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T281	English Oak <i>Quercus robur</i>	10	680	5	M	G	Characteristic for species Even crown form Low crown form No major defects were noted		209	8.2	A (ii)
T282	English Oak <i>Quercus robur</i>	12	280 450 430 430 340	6	M	G	Characteristic for species Even crown form Low crown form Multi stemmed from base No major defects were noted		347	10.5	A (ii)
T283	English Oak <i>Quercus robur</i>	13	680	6	M	G	Broken branches evident Characteristic for species Even crown form Included bark union Beside pond		209	8.2	A (ii)
T284	English Oak <i>Quercus robur</i>	15	est 500 380	6	M	G	Broken branches evident Characteristic for species Even crown form Included bark union Beside pond		178	7.5	A (ii)
T285	English Oak <i>Quercus robur</i>	7	240 190	N - 2 S - 4 E - 3 W - 5	EM	F	Branch stubs evident Broken branches evident Suppressed crown form		42	3.7	C (ii)
T286	English Oak <i>Quercus robur</i>	18	1120	6	M	G	Bark wounds noted Broken branches evident Browsing damage noted on main stem Characteristic for species Even crown form Heartwood exposed Included bark union Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Woodpecker holes observed		567	13.4	A (ii)
T287	English Oak <i>Quercus robur</i>	17	960	6	M	G	Broken branches evident Characteristic for species Even crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm)		417	11.5	A (ii)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
T288	English Oak <i>Quercus robur</i>	10	320	5	M	G	Characteristic for species Even crown form Low crown form No major defects were noted		46	3.8	A (ii)
T289	English Oak <i>Quercus robur</i>	9	380	5	M	G	Characteristic for species Even crown form Low crown form No major defects were noted		65	4.6	A (ii)
T290	English Oak <i>Quercus robur</i>	9	410	5	M	G	Characteristic for species Even crown form Low crown form No major defects were noted		76	4.9	A (ii)
T291	Alder <i>Alnus glutinosa</i>	6	est 200	2	EM	F	Minor dead wood evident in the crown (<75mm)		18	2.4	C (ii)
T292	English Oak <i>Quercus robur</i>	16	Over ivy 920	7	M	G	Characteristic for species Dense ivy cover on main stem Established ivy cover Even crown form Minor dead wood evident in the crown (<75mm) Typical crown form		383	11.0	A (ii)
T293	Silver Birch <i>Betula pendula</i>	12	420 480	7	M	F	Characteristic for species Minor dead wood evident in the crown (<75mm) No major defects were noted Twin stemmed from base		184	7.7	B (ii)
T294	Crab Apple <i>Malus sylvestris</i>	8	610	6	M	G	Basal suckers present Crossing and rubbing branches Epicormic growth evident within the crown Even crown form Minor dead wood evident in the crown (<75mm)		168	7.3	A (ii)
T295	Alder <i>Alnus glutinosa</i>	6	510 610	3	M	P	Basal cavity observed Heartwood exposed Hollowing trunks Failed crowns in the past		N/A	N/A	U
T296	English Oak <i>Quercus robur</i>	16	est 1000	7	M	G	No surveyed due to no access Typical crown form		452	12.0	A (ii)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T297	English Oak <i>Quercus robur</i>	8	140 120 100	3	SM	F	Multi-stemmed from base No major defects Outgrown specimen in hedgerow		20	2.5	C (i)
T298	English Oak <i>Quercus robur</i>	5	100	2	SM	F	No major defects Outgrown specimen in hedgerow		5	1.2	C (i)
T299	English Oak <i>Quercus robur</i>	5	110	2	SM	F	No major defects Outgrown specimen in hedgerow		5	1.3	C (i)
T300	Ash <i>Fraxinus excelsior</i>	12	est 500	6	M	D	Dead specimen		N/A	N/A	U
T301	Whitebeam <i>Sorbus aria</i>	8.5	520	5	M	G	Characteristic for species Even crown form Multi leadered form No major defects were noted Typical crown form Metal tag 0444		122	6.2	B (ii)
T302	English Oak <i>Quercus robur</i>	9.5	360	3	EM	F	Characteristic for species Even crown form Pruning wounds noted Typical crown form		59	4.3	B (ii)
T303	Damson <i>Prunus insititia</i>	4	est 150 150 180 60	N - 4 S - 3 E - 2 W - 2	M	F	Characteristic for species		37	3.4	C (ii)
T304	Whitebeam <i>Sorbus aria</i>	8	200	3	M	F	Characteristic for species Pruning wounds noted		18	2.4	C (ii)
T305	Whitebeam <i>Sorbus aria</i>	8.5	300	3	M	G	Characteristic for species Even crown form Multi leadered form No major defects were noted Typical crown form		41	3.6	B (ii)

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
T306	Whitebeam <i>Sorbus aria</i>	8.5	310	3	M	G	Branch stubs evident Characteristic for species Even crown form Multi leadered form Pruning wounds noted Typical crown form Leaning stem		43	3.7	B (ii)
T307	Whitebeam <i>Sorbus aria</i>	8.5	300	3	M	G	Branch stubs evident Characteristic for species Even crown form Multi leadered form Pruning wounds noted Typical crown form		41	3.6	B (ii)
T308	Whitebeam <i>Sorbus aria</i>	9.5	360	4	M	G	Basal cavity observed Branch stubs evident Characteristic for species Even crown form Multi leadered form Pruning wounds noted Typical crown form		59	4.3	B (ii)
T309	English Oak <i>Quercus robur</i>	12	440	5	M	G	Characteristic for species Even crown form No major defects were noted Typical crown form				A (ii)
T310	Holly <i>Ilex aquifolium</i>	6	est 300	2	M	G	Offsite and typical for the species				41
T311	Hawthorn <i>Crataegus monogyna</i>	5	est 350	2	M	F	Heavily festooned with ivy obscuring entire structure Outgrown from hedgerow Topped at 5m for clearance of power lines overhead				55
T312	Ash <i>Fraxinus excelsior</i>	16	710	Up to 6	M	F	Appears to have been heavily reduced, possibly for historic power line clearance, with regrowth from approximately 9m Would appear to fall outside of the red line but in close proximity Noted a collapsed branch in the lower crown on the northern side				228

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
							RPA	Radius				
T313	Common Lime <i>Tilia x europaea</i>	13	580	5	M	G	Crown has been previously lifted Epicormic shoots are regularly cut back at the base and on the lower stem Minor dead wood Crown material around adjacent street lamp	152	7.0	B (ii)		
T314	Common Lime <i>Tilia x europaea</i>	11	290	4	M	G	Crown has been previously lifted Epicormic shoots are regularly cut back at the base and on the lower stem Minor dead wood	38	3.5	B (ii)		
T315	Common Lime <i>Tilia x europaea</i>	13	480	5	M	G	Crown has been previously lifted Epicormic shoots are regularly cut back at the base and on the lower stem Minor dead wood Minor basal wound in bark south facing at ground level	104	5.8	B (ii)		
T316	Silver Birch <i>Betula pendula</i>	8	180	2	M	G	Characteristic for the species No obvious defects	15	2.2	B (ii)		
T317	Common Lime <i>Tilia x europaea</i>	14	620	N - 6 S - 5 E - 6 W - 4	M	G	Stem possesses a prominent fold in the bark north facing from ground level to approximately 2.5m above ground level Basal and stem epicormic shoots light Minor dead wood	174	7.4	A (ii)		
T318	Beech <i>Fagus sylvatica</i>	17	690	6	M	G	Tree positioned slightly outside of red line boundary yet within influencing distance Growing on grass slope facing northwards and therefore base of stem is a lower height than footway / road level Characteristic for the species Crown has been previously lifted	215	8.3	A (ii)		
T319	Crack Willow <i>Salix fragilis</i>	20	680 480 630 480	7	M	F	Multiple stemmed form from close to ground level Unions obscured by ivy and specimen is offsite thus access restricted Failure of stems, many fractured and cracked	597	13.8	C (ii)		
T320	Common Lime <i>Tilia x europaea</i>	17	960	6	M	G	Dense ivy growth on stem obscuring views and extending high into the crown and main primary branch / limb scaffold Specimen positioned offsite and within private ownership Relatively low hanging crown over the footway	417	11.5	B (ii)		
T321	English Oak <i>Quercus robur</i>	12	est 800	Up to 6	M	F	Lower stem is densely buried with high amounts of epicormic shoots Past pruning has been carried out to raise the level of the crown Storm damage branch material within crown Minor dead wood	290	9.6	B (ii)		

Tree No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA Radius	BS5837 Cat
							RPA	RPA		
T322	Flowering Cherry <i>Prunus 'Kanzan'</i>	3	est 350	1	M	F	Heavily reduced resulting in a framework of stubs with regrowth Situated in private garden immediately behind the boundary wall adjacent to the footway	55	4.2	C (ii)
T323	Holly <i>Ilex aquifolium</i>	5	est 200	2	M	G	Standard tree within hedgerow Characteristic for the species	18	2.4	C (ii)
T324	Holly <i>Ilex aquifolium</i>	7	est 400	2	M	G	Standard tree within hedgerow Characteristic for the species	72	4.8	B (ii)
T325	English Oak <i>Quercus robur</i>	17	750	8	M	G	Metal numbered tags affixed to lower stem; 0421 / 1598 Characteristic for the species Major dead wood Broken branches visible	254	9.0	A (ii)
T326	English Oak <i>Quercus robur</i>	13	650	5	M	F	Damaged area to lower stem south side close to ground level whereby an area of bark has been removed creating an open wound Heartwood has become exposed but at present decay is restricted to patches on the surface and limited penetration beyond Crown supports major dead wood Noted a prominent bulge / lime feature in the bark extending the full circumference of the lower stem at approximately 0.5m above ground level (possibly included wire?)	191	7.8	B (ii)
T327	Whitebeam <i>Sorbus aria</i>	9	350	4	M	F	Branch socket cavities visible Characteristic for the species	55	4.2	C (ii)
T328	Ash <i>Fraxinus excelsior</i>	15	450	6	M	G	Characteristic for the species	92	5.4	B (ii)

GROUPS OF TREES

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
GROUPS OF TREES												
G1	Ash Fraxinus excelsior Common Lime <i>Tilia x europaea</i> Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i> Wild Cherry <i>Prunus avium</i> Hazel <i>Corylus avellana</i> Blackthorn <i>Prunus spinosa</i> Hawthorn <i>Crataegus monogyna</i> Damson <i>Prunus insititia</i>		upto 235	3	SM	F	Buffer planting Browsing damage noted on main stem Dead trees noted Interlocking crowns Low crown form Multi stemmed and single stem forms	25	2.8	B (ii)		
G2	Hawthorn <i>Crataegus monogyna</i> Damson <i>Prunus insititia</i>	4.5	6x 60	2	EM	P	Un-maintained hedgerow Gaps present Multi stemmed from base Outgrown forms Overhead cables	10	1.8	C (iii)		
G3	Hawthorn <i>Crataegus monogyna</i>	4.5	70 50 40	2	EM	P	Un-maintained hedgerow Gaps present Multi stemmed from base Outgrown forms	7	1.5	C (ii)		
G4	Hawthorn <i>Crataegus monogyna</i>	7	upto 160	2	EM	P	Un-maintained hedgerow Dead trees noted Gaps present Multi stemmed from base Outgrown forms	12	1.9	C (ii)		
G5	Ash Fraxinus excelsior Common Lime <i>Tilia x europaea</i> Crack Willow <i>Salix fragilis</i> Wild Cherry <i>Prunus avium</i>		upto 420	3	SM	F	Group of 6 trees Bark wounds noted Basal cavity observed Browsing damage noted on main stem Poached ground at the base	80	5.0	B (ii)		
G6	Lombardy Poplar <i>Populus nigra 'Italica'</i>	17.5	472	2.5	EM	G	Group of 7 trees Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form	101	5.7	B (ii)		

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
G7	Blackthorn <i>Prunus spinosa</i> Common Lime <i>Tilia x europaea</i> Field Maple <i>Acer campestre</i> Sycamore <i>Acer pseudoplatanus</i>		avg 300	3	EM	G	Flail damage Interlocking crowns No major defects were noted Gaps present			41	3.6	B (ii)
G8	English Oak <i>Quercus robur</i>	13	avg 500	5	EM	F	5 trees with deep ditch at base Bark wounds noted Dieback of the crown noted in single specimen Minor dead wood evident in the crown (<75mm) Epicormic growth evident within the crown Typical crown form			113	6.0	B (i)
G9	Blackthorn <i>Prunus spinosa</i> Elder <i>Sambucus nigra</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i> Hazel <i>Corylus avellana</i>		avg 70	2	EM	P	Un-maintained hedgerow Dead trees noted Gaps present Multi stemmed from base Outgrown forms Self-seeded trees within hedgerow			2	0.8	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	Cat	BS5837	
							RPA	Radius					
G10	Ash Fraxinus excelsior English Oak Quercus robur Norway Maple Acer platanoides Norway Maple Crimson King Acer platanoides 'Crimson King'		avg 520	4	EM / M	F	Linear planting within road side verge Bark wounds noted Branch stubs evident Crossing and rubbing branches No major defects were noted Pruning wounds noted Typical crown form		122	6.2	B (ii)		
G11	Ash Fraxinus excelsior English Oak Quercus robur Hawthorn Crataegus monogyna Norway Maple Acer platanoides Norway Maple Crimson King Acer platanoides 'Crimson King'		avg 520	4	EM / M	F	Linear planting within road side verge Bark wounds noted Branch stubs evident Crossing and rubbing branches No major defects were noted Pruning wounds noted Typical crown form		122	6.2	B (ii)		
G12	Ash Fraxinus excelsior English Oak Quercus robur Sycamore Acer pseudoplatanus Wild Cherry Prunus avium		upto 180	2	SM	F	Sporadic self-seeded trees within hedgerow Typical crown forms		15	2.2	C (ii)		
G13	Ash Fraxinus excelsior English Oak Quercus robur Sycamore Acer pseudoplatanus	11	avg 200	3	EM	G	Dead trees noted Interlocking crowns Low crown form No major defects were noted Typical crown form			18	2.4	B (ii)	
G14	Ash Fraxinus excelsior English Oak Quercus robur	12	180 220 265	5	EM / M	P	Basal cavity observed Limited future potential Low crown forms Multi stemmed likely lapsed coppice Close cultivation of soil			85	5.2	C (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
							RPA	Radius	BS5837 Cat			
G15	Ash <i>Fraxinus excelsior</i> Holly <i>Ilex aquifolium</i>	12	upto 443 472	6	M	P	3 trees Bark wounds noted with heartwood exposed Basal cavity observed Compacted ground at the base Dead trees noted Limited future potential Major dead wood evident in the crown (>75mm) Close cultivation	N/A	N/A	U		
G16	Silver Birch <i>Betula pendula</i>	13	avg 300	3	EM	G	Planting along railway line Interlocking crowns No major defects were noted Typical crown form Moderate screening value	41	3.6	B (ii)		
G17	Common Lime <i>Tilia x europaea</i> English Oak <i>Quercus robur</i> Field Maple <i>Acer campestre</i> Wild Cherry <i>Prunus avium</i> Swedish Whitebeam <i>Sorbus intermedia</i>	7	avg 280	2	EM	G	Buffer planting along railway line Interlocking crowns Low crown forms No major defects were noted Typical crown forms	35	3.4	B (ii)		
G18	English Oak <i>Quercus robur</i>	11	upto 320	4	EM	F	Planting along railway line Gaps present Crowns reduced to east Pruning wounds noted	46	3.8	B (ii)		
G19	English Oak <i>Quercus robur</i> Aspen <i>Populus tremula</i>	21	upto 640	7	M	F	Basal suckers present Dead and failed trees noted Minor dead wood evident in the crown (<75mm) Typical crown forms	185	7.7	C (ii)		
G20	Ash <i>Fraxinus excelsior</i> Common Lime <i>Tilia x europaea</i> English Oak <i>Quercus robur</i> Wild Cherry <i>Prunus avium</i>	12	240 260 180	4	EM	F	Hedgerow specimens Multi stemmed and single stem forms No major defects were noted Typical crown form	71	4.8	B (ii)		

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
							RPA	RPA	Radius			
G21	Hawthorn <i>Crataegus monogyna</i> Norway Maple <i>Acer platanoides</i> Norway Maple Crimson King <i>Acer platanoides</i> 'Crimson King'	15	avg 600	4	EM / M	F	Linear planting within road side verge Bark wounds noted Branch stubs evident Crossing and rubbing branches No major defects were noted Pruning wounds noted Typical crown form	163	7.2	B (ii)		
G22	Aspen <i>Populus tremula</i>	19.5	upto 500	4	EM	F	Minor dead wood evident in the crown (<75mm) No major defects were noted Typical crown form Close cultivation of soil	113	6.0	B (i)		
G23	Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Field Maple <i>Acer campestre</i> Sycamore <i>Acer pseudoplatanus</i>	10	avg 220	3	EM	F	Epicormic growth evident within the crown Flail damage Interlocking crowns Close cultivation of soil	22	2.6	B (ii)		
G24	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Silver Birch <i>Betula pendula</i> Aspen <i>Populus tremula</i> Swedish Whitebeam <i>Sorbus intermedia</i>	14	upto 600	5	EM	F	Planting along railway line Epicormic growth evident within the crown Interlocking crowns Minor dead wood evident in the crown (<75mm) Multi stemmed and single stem forms Typical crown form	163	7.2	B (ii)		
G25	Ash <i>Fraxinus excelsior</i> Silver Birch <i>Betula pendula</i> Rowan <i>Sorbus aucuparia</i>	10	avg 220	3	SM	F	Hedgerow specimens Branch stubs evident No major defects were noted Pruning wounds noted Typical crown form Close cultivation of soil	22	2.6	C (ii)		
G26	Hawthorn <i>Crataegus monogyna</i> Norway Maple <i>Acer platanoides</i> Sycamore <i>Acer pseudoplatanus</i> Sweet Chestnut <i>Castanea sativa</i>	10	upto 150	3	SM / EM	F	Un-maintained hedgerow Flail damage Interlocking crowns Outgrown forms Larger individual trees	10	1.8	B (ii)		

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							RPA	Radius			
G27	English Oak Quercus robur Sweet Chestnut <i>Castanea sativa</i>	11.5	upto 400	3	SM / EM	G	Close cultivation of the soil Interlocking crowns No major defects were noted Typical crown form		72	4.8	B (ii)
G28	Ash <i>Fraxinus excelsior</i> English Oak Quercus robur	16	avg 350	3	EM	F	No major defects were noted Pruning wounds noted Multi stemmed and single stem forms Situated offsite Typical crown form		55	4.2	B (ii)
G29	Hawthorn <i>Crataegus monogyna</i> Norway Maple <i>Acer platanoides</i> Sycamore <i>Acer pseudoplatanus</i> Hornbeam <i>Carpinus betulus</i>		upto 250	3	EM	G	Interlocking crowns Low crown form No major defects were noted Single stem forms Typical crown form		28	3.0	B (ii)
G30	Lombardy Poplar <i>Populus nigra 'Italica'</i>	25	avg 540	3	M	F	Buffer planting Broken branches and branch stubs evident Characteristic for species Typical crown form		132	6.5	B (ii)
G31	Ash <i>Fraxinus excelsior</i> English Oak Quercus robur	11	avg 300	4	EM	F	Hedgerow specimens Bark wounds noted Dead trees noted No major defects were noted Overhead cables Pruning wounds noted Typical crown forms		41	3.6	B (ii)
G32	Elder <i>Sambucus nigra</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i>		avg 6x 50	2	EM / M	F	Characteristic for species Close cultivation of the soil Dense undergrowth at the base Multi leadered forms Multi stemmed from base No major defects were noted Sporadic self-seeded group of trees		7	1.5	B (ii)
G33	Ash <i>Fraxinus excelsior</i> Hawthorn <i>Crataegus monogyna</i>	16	upto 300	5	EM	G	Branch stubs evident Close cultivation of the soil Epicormic growth evident within the crown Flail damage evident Interlocking crowns No major defects were noted		41	3.6	B (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							RPA	RPA			
G34	Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Whitebeam <i>Sorbus aria</i>	14	upto 480	4.5	EM	F / G	Characteristic for species Close cultivation of the soil Minor dead wood evident in the crown (<75mm)		104	5.8	B (ii)
G35	Whitebeam <i>Sorbus aria</i>	6.5	avg 280	3	EM / M	G	Characteristic for species Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Pruning wounds noted Situated offsite		35	3.4	B (ii)
G36	Leyland Cypress <i>Cupressocyparis leylandii</i>	10	est 200	1.5	EM	F / G	Characteristic for species Close cultivation of the soil Crown had been topped Partially maintained planted hedgerow		18	2.4	B (iii)
G37	Norway Maple <i>Acer platanoides</i>	10	upto 260	3	EM	F	Characteristic for species Low crown form No major defects were noted 3 trees		31	3.1	B (ii)
G38	Hawthorn <i>Crataegus monogyna</i> Wild Cherry <i>Prunus avium</i> Damson <i>Prunus insititia</i> Holly <i>Ilex aquifolium</i>		avg 50	1	EM / M	F	Characteristic for species Close cultivation of the soil Gaps present in hedgerow Un-maintained hedgerow Sporadic positions		6	1.3	C (iii)
G39	English Oak <i>Quercus robur</i> Field Maple <i>Acer campestre</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i>	7	upto 300	3	EM	G	Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Multi leadered form Multi stemmed from base Positioned along railway embankment		41	3.6	B (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
G40	English Oak <i>Quercus robur</i> Field Maple <i>Acer campestre</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i>		upto 300	3	EM	G	Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Low crown form Multi leadered form Multi stemmed from base Positioned along railway embankment		41	3.6	B (ii)
G41	Common Lime <i>Tilia x europaea</i> Hawthorn <i>Crataegus monogyna</i>	7	avg 230	2	SM / EM	G	Characteristic for species No major defects were noted Situated offsite		24	2.8	B (ii)
G42	Ash <i>Fraxinus excelsior</i> Common Lime <i>Tilia x europaea</i>	7	avg 250	3	SM / EM	G	Characteristic for species No major defects were noted Situated offsite		28	3.0	B (ii)
G43	Hawthorn <i>Crataegus monogyna</i>	4	avg 70	1	M	G	Maintained hedgerow		2	0.8	B (ii)
G44	Wild Cherry <i>Prunus avium</i>	7	est 200	3	EM	G	Characteristic for species Close cultivation of the soil Interlocking crowns Low crown form		18	2.4	B (ii)
G45	Wild Cherry <i>Prunus avium</i>	7	est 200	3	EM	G	Characteristic for species Close cultivation of the soil Interlocking crowns Low crown form		18	2.4	B (ii)
G46	Hawthorn <i>Crataegus monogyna</i>	4	avg 70	1	M	G	Dead trees noted Maintained hedgerow		2	0.8	B (ii)
G47	Alder <i>Alnus glutinosa</i>	10	upto 350	2	EM	F / G	Characteristic for species Close cultivation of the soil Limited future potential		55	4.2	C (ii)
G48	Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i> Hazel <i>Corylus avellana</i>	10	avg 240	3	EM / M	F	Bark wounds noted Basal cavity observed Branch stubs evident Close cultivation of the soil Dense undergrowth at the base Limited future potential Several dead stems amongst the group		26	2.9	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							RPA	RPA			
G49	Ash Fraxinus excelsior Beech Fagus sylvatica Elder Sambucus nigra Hawthorn Crataegus monogyna Silver Birch Betula pendula Sycamore Acer pseudoplatanus Hazel Corylus avellana Holly Ilex aquifolium Whitebeam Sorbus aria Beech						Bark wounds noted Branch stubs evident Close cultivation of the soil Dense undergrowth at the base Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) Dense group of mixed tree species of similar age classes and conditions		35	3.4	B (ii)
G50	Fagus sylvatica English Oak Quercus robur Norway Maple Acer platanoides Sycamore Acer pseudoplatanus Hazel Corylus avellana	avg 280	3	SM / EM	F		Bark wounds noted Branch stubs evident Characteristic for species Close cultivation of the soil Epicormic growth evident within the crown Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) Multi leadered form Positioned around attenuation basin		122	6.2	B (ii)
G51	Silver Birch Betula pendula	11	upto 240	3	EM	F / G	Characteristic for species No major defects were noted		26	2.9	B (ii)
G52	Ash Fraxinus excelsior Blackthorn Prunus spinosa Hawthorn Crataegus monogyna Sycamore Acer pseudoplatanus		upto 550	1	EM / M	F	Crossing and rubbing branches Old laid forms NB height increases to 4m in the central section close to H51 and returns to 2m at the southern end		137	6.6	B (ii)
G53	English Oak Quercus robur Austrian Pine Pinus nigra ssp. Nigra	10	est 400	3	EM / M	F	Characteristic for species Dense undergrowth at the base Limited future potential Minor dead wood evident in the crown (<75mm)		72	4.8	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
G54	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	12	upto 350	5	EM / M	G	Bark wounds noted Branch stubs evident Characteristic for species Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted 3 larger oaks set amongst outgrown hedgerow tree cover		55	4.2	B (ii)
G55	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Wych Elm <i>Ulmus glabra</i> English Elm <i>Ulmus procera</i> Holly <i>Ilex aquifolium</i> Mountain Ash <i>Sorbus aucuparia</i>	12	upto 350	5	EM / M	G	Bark wounds noted Branch stubs evident Characteristic for species Dead trees noted Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted 8 larger oaks set amongst outgrown hedgerow tree cover		55	4.2	B (ii)
G56	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Wild Cherry <i>Prunus avium</i> Hazel <i>Corylus avellana</i> Mountain Ash <i>Sorbus aucuparia</i>	13	upto 500	4.5	EM / M	F	Characteristic for species Close cultivation of the soil Dead trees noted Epicormic growth evident within the crown Light ivy cover Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted		113	6.0	B (ii)
G57	Leyland Cypress <i>Cupressocyparis leylandii</i>	7	est 80 100 150 180	1	M	F	Crown had been heavily reduced Dead trees noted Limited future potential		32	3.2	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
G58	Blackthorn <i>Prunus spinosa</i> Wild Cherry <i>Prunus avium</i> Alder <i>Alnus glutinosa</i> Apple <i>Malus domestica</i> Damson <i>Prunus insititia</i> Hazel <i>Corylus avellana</i> Plum <i>Prunus domestica</i> Weeping Willow <i>Salix x sepulcralis</i> 'Chrycosoma' Fig <i>Ficus carica</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>						Bark wounds noted Branch socket cavities observed	Branch stubs evident Close cultivation of the soil Low crown form Situated offsite Garden group	28	3.0	B (ii)
G59							Characteristic for species Low crown form Multi leadered form Multi stemmed from base No major defects were noted Sporadic self-seeded group of trees		28	3.0	B (ii)
G60	Alder <i>Alnus glutinosa</i>	12	avg 400	4	EM / M	F	Characteristic for species Epicormic growth evident within the crown Interlocking crowns Low crown form Multi stemmed from base No major defects were noted		72	4.8	B (ii)
G61	Hawthorn <i>Crataegus monogyna</i> Damson <i>Prunus insititia</i>	3	avg 50 60 80	1	EM / M	F	Characteristic for species Close cultivation of the soil Dead trees noted Gaps present in hedgerow Un-maintained hedgerow		6	1.3	C (iii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	BS5837 Cat			
G65	Ash Fraxinus excelsior Crack Willow Salix fragilis Elder Sambucus nigra English Oak Quercus robur Goat Willow Salix caprea Hawthorn Crataegus monogyna Horse Chestnut Aesculus hippocastanum Silver Birch Betula pendula Wild Cherry Prunus avium Alder Alnus glutinosa Mountain Ash Sorbus aucuparia						Base obscured Branch socket cavities observed Branch stubs evident Broken branches evident Crossing and rubbing branches Dead trees noted Dense undergrowth at the base Dieback of the crown observed Interlocking crowns Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Boundary tree cover along canal high quantity of self set material on edge	55	4.2	B (ii)	
G66	English Oak Quercus robur Hawthorn Crataegus monogyna Silver Birch Betula pendula Alder Alnus glutinosa Hazel Corylus avellana Mountain Ash Sorbus aucuparia	12	est 350	6	EM / M	F	Branch stubs evident Broken branches evident Crossing and rubbing branches Epicormic growth evident within the crown Flail damage evident Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) Single stem forms Old laid forms in hedgerow	104	5.8	B (ii)	
G67	Elder Sambucus nigra English Oak Quercus robur Hawthorn Crataegus monogyna Holly Ilex aquifolium				est 100 100 100	4	EM F		14	2.1	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
G68	English Oak <i>Quercus robur</i>	14	upto 400	10	EM	F	Branch stubs evident Epicormic growth evident within the crown Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted		72	4.8	B (ii)
G69	lime sp.	6	upto 150	3	SM / EM	F	Base obscured Crossing and rubbing branches Interlocking crowns Low crown form Multi stemmed from base		20	2.5	C (ii)
G70	Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> English Elm <i>Ulmus procera</i> Prunus sp.						Base obscured Branch stubs evident Broken branches evident Crossing and rubbing branches Dense ivy cover on main stem Dense undergrowth at the base Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base Situated offsite		54	4.2	C (ii)
G71	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i> Prunus sp.			est 100	3	EM	P / F				
G72	Hawthorn <i>Crataegus monogyna</i> Damson <i>Prunus insititia</i>		avg 140	2	SM	P	Dense undergrowth at the base Low crown form Multi leadered form Sporadic self-seeded group of trees		9	1.7	C (ii)
G73	Blackthorn <i>Prunus spinosa</i> English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Rowan <i>Sorbus aucuparia</i>		upto 420	4	EM	G	Branch stubs evident Flail damage evident Gaps present in hedgerow Multi stemmed from base Single stem forms		80	5.0	B (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	RPA	BS5837 Cat
							RPA	RPA	Radius				
G74	English Oak <i>Quercus robur</i> Aspen <i>Populus tremula</i>	16	avg 300	4	EM	F	Branch stubs evident Dead trees noted Dense undergrowth at the base Etiolated form Interlocking crowns Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Suppressed crown form			41	3.6	C (ii)	
G75	English Oak <i>Quercus robur</i> Silver Birch <i>Betula pendula</i> Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>	10	avg 310	4	EM	F	Characteristic for species Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm)			43	3.7	B (ii)	
G76	Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>	8	avg 250	4	EM	P	Dense undergrowth at the base Failed trees Limited future potential Sporadic self-seeded group of trees			28	3.0	C (ii)	
G77	Hawthorn <i>Crataegus monogyna</i>	1.5	upto 75	0.5	EM	P	Three separate sections with gaps inbetween Maintained			8	1.6	C (ii)	
G78	Hawthorn <i>Crataegus monogyna</i> Hazel <i>Corylus avellana</i>	1.5	upto 75	0.5	EM	P	Contains a small section of hazel to the west of the gateway Laid form Maintained			8	1.6	C (ii)	
G79	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Silver Birch <i>Betula pendula</i> Damson <i>Prunus insititia</i> Hazel <i>Corylus avellana</i>						Bark wounds noted Branch stubs evident Broken branches evident Close cultivation of the soil Minor dead wood evident in the crown (<75mm) Multi stemmed from base Pruning wounds noted			49	4.0	B (ii)	
G80	Aspen <i>Populus tremula</i>	24	avg 510	6	M	F	Branch stubs evident Broken branches evident Characteristic for species Minor dead wood evident in the crown (<75mm) 10m spacing			118	6.1	B (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	B55837 Cat
G81	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	4	avg 50	1	EM	F	Characteristic for species Un-maintained hedgerow Would benefit from laying		1	0.6	B (ii)	
G82	English Oak <i>Quercus robur</i>	8	avg 435	4	SM	F	Characteristic for species No major defects were noted Typical crown form Situated within hedge		86	5.2	B (ii)	
G83	Blackthorn <i>Prunus spinosa</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Hazel <i>Corylus avellana</i>	9	upto 330	3	EM	P	Branch stubs evident Flail damage evident Gaps present in hedgerow Limited future potential Sporadic self-seeded group of trees Un-maintained hedgerow		49	4.0	C (ii)	
G84	Elder <i>Sambucus nigra</i> Sycamore <i>Acer pseudoplatanus</i> Aspen <i>Populus tremula</i> False Acacia <i>Robinia pseudoacacia</i>	22	upto 620	4	EM / M	F	Bark wounds noted Branch stubs evident Broken branches evident Characteristic for species Dead trees noted Dense ivy cover on main stem Dense undergrowth at the base Failed trees Light ivy cover Minor dead wood evident in the crown (<75mm) Suppressed crown form Small plantation of mainly mature upper canopy aspen trees		174	7.4	B (iii)	
G85	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Silver Birch <i>Betula pendula</i> Sycamore <i>Acer pseudoplatanus</i>	12	upto 550	3.5	EM / M	F / G	Branch stubs evident Broken branches evident Characteristic for species Close cultivation of the soil Dead trees noted Epicormic growth evident within the crown Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted		137	6.6	B (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	Radius			
G86	False Acacia <i>Robinia pseudoacacia</i>	12	avg 300	3.5	EM / M	F / G	Branch stubs evident Characteristic for species Close cultivation of the soil Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted		41	3.6	B (ii)
G87	Sycamore <i>Acer pseudoplatanus</i> Wild Cherry <i>Prunus avium</i>	7	260	3	SM	P	Bark wounds noted Branch stubs evident Broken branches evident Compacted ground at the base Adjacent to site access for quarry		31	3.1	C (i)
G88	English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i>	6	120	2.5	SM / EM	F / G	Outgrown hedgerow		7	1.4	B (ii)
G89	Norway Maple <i>Acer platanoides</i> Sycamore <i>Acer pseudoplatanus</i> Sycamore (purple leaved) <i>Acer pseudoplatanus</i> 'Atropurpureum'	7	190 150	4	SM	P / F	Bark wounds noted Branch stubs evident Multi leadered form Sparse crown		27	2.9	C (i)
G90	English Oak <i>Quercus robur</i> Holly <i>Ilex aquifolium</i> Sweet Chestnut <i>Castanea sativa</i> Goat Willow <i>Salix caprea</i> Silver Birch <i>Betula pendula</i>	8	est 150	3	SM	P / F	Dense undergrowth at the base Light ivy cover Sporadic self-seeded group of trees		10	1.8	C (i)
G91		6	100	2	Yng / SM	D / P	Specimen in extensive decline Sporadic self-seeded group of trees		5	1.2	C (i)
G92	English Oak <i>Quercus robur</i>	15	700	7	EM / M	G	Branch stubs evident Interlocking crowns Minor dead wood evident in the crown (<75mm) Adjacent to quarry bund		222	8.4	B (ii)
G93	Goat Willow <i>Salix caprea</i> Silver Birch <i>Betula pendula</i>	5	est 50	1	Yng	F	Growing on soil mound in silt lagoon		1	0.6	C (i)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							RPA	RPA Radius			
G94	English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	8	est 350	4	SM / EM	F	Outgrown hedgerow		55	4.2	B (ii)
G95	English Oak <i>Quercus robur</i>	13	850	6	M	F	Branch stubs evident Broken branches evident Major dead wood evident in the crown (>75mm) Broken limbs to the north		327	10.2	B (i)
G96	Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i>	4	50	2	Yng / SM	D	Dead trees willow surviving but in poor condition		N/A	N/A	U
G97	English Oak <i>Quercus robur</i>	14	470	6	EM	G	Branch stubs evident Broken branches evident Dense undergrowth at the base Broken limbs adjacent to access road		100	5.6	B (ii)
G98	Balsam Poplar (Western) <i>Populus trichocarpa</i>	21	450	4	EM	G	Minor dead wood evident in the crown (<75mm) Typical crown form Growing in depression in ground possibly an old pond		92	5.4	B (ii)
G99	English Oak <i>Quercus robur</i>	13	upto 800	6	M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Epicormic growth evident within the crown Interlocking crowns Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Storm damage present Gravel works surroundings		290	9.6	A (ii)

Group No	Species	Height	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	RPA	BS5837 Cat
						RPA	Radius	RPA				
G100	English Oak Quercus robur Goat Willow Salix caprea Hawthorn Crataegus monogyna Wild Cherry Prunus avium Alder Alnus glutinosa		upto 450	3	EM / M	F			Branch stubs evident Broken branches evident Crossing and rubbing branches Dense undergrowth at the base Epicormic growth evident within the crown Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm)	92	5.4	B (ii)
G101	Elder Sambucus nigra English Oak Quercus robur Hawthorn Crataegus monogyna Wild Cherry Prunus avium Alder Alnus glutinosa Swedish Whitebeam Sorbus intermedia			est 550	4	SM / EM / M	F		Broken branches evident Crossing and rubbing branches Dense ivy cover on main stem Dense undergrowth at the base Dieback of the crown observed Flail damage evident Minor dead wood evident in the crown (<75mm) Some trees have been pollarded	137	6.6	C (ii)
G102	Ash Fraxinus excelsior English Oak Quercus robur Goat Willow Salix caprea Hawthorn Crataegus monogyna Sycamore Acer pseudoplatanus Apple Malus domestica			est 150 150 150	2	EM	F		Crossing and rubbing branches Dense ivy cover on main stem Dense undergrowth at the base Interlocking crowns Low crown form Outgrown hedgerow Overhead cables Group is divided down the middle by power cables	31	3.1	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	Radius			
G103	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i> Alder <i>Alnus glutinosa</i> Apple <i>Malus domestica</i>						Crossing and rubbing branches Dense ivy cover on main stem Dense undergrowth at the base Interlocking crowns Low crown form Outgrown hedgerow Overhead cables Group is divided down the middle by power cables in places edge of woodland		72	4.8	B (ii)
G104	English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i> Silver Birch <i>Betula pendula</i> Sycamore <i>Acer pseudoplatanus</i> Turkey Oak <i>Quercus cerris</i> Scots Pine <i>Pinus sylvestris</i>	10	est 400	4	EM	F	Base obscured Crossing and rubbing branches Dieback of the crown observed Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm)		55	4.2	B (ii)
G105	Common Lime <i>Tilia x europea</i> Sycamore <i>Acer pseudoplatanus</i> Turkey Oak <i>Quercus cerris</i>	12	est 250	4	EM	F	Base obscured Crossing and rubbing branches Epicormic growth evident within the crown Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm)		28	3.0	A (i)
G106	Crack Willow <i>Salix fragilis</i>	12	520	6	EM / M	F	Minor dead wood evident in the crown (<75mm) Multi leadered form Soil mounded around base		122	6.2	C (iii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	RPA			
G107	Crack Willow <i>Salix fragilis</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>		upto 630	7	EM / M	F	Branch stubs evident Broken branches evident Crossing and rubbing branches Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) Multi leadered form Multi stemmed from base Single stem forms Trees around pond		180	7.6	B (ii)
G108	English Oak <i>Quercus robur</i> Silver Birch <i>Betula pendula</i> Wild Cherry <i>Prunus avium</i> Turkey Oak <i>Quercus cerris</i>		upto 650	5	M	F	Bark wounds noted Basal cavity observed Branch stubs evident Broken branches evident Epicormic growth evident within the crown Heartwood exposed Interlocking crowns Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) One tree up to 990 stem		191	7.8	B (ii)
G109	Goat Willow <i>Salix caprea</i> Prunus sp.		250	3	EM	P	Base obscured Crossing and rubbing branches Dense undergrowth at the base Interlocking crowns Low crown form		28	3.0	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	Cat
							RPA	RPA	BS5837			
G110	English Oak Quercus robur Hawthorn Crataegus monogyna Horse Chestnut Aesculus hippocastanum Wild Cherry Prunus avium Holly Ilex aquifolium Weeping Willow Salix x sepulcralis 'Chrycosoma' Austrian Pine Pinus nigra ssp. Nigra Scots Pine Pinus sylvestris Tree of Heaven Ailanthus altissima Field Maple Acer campestre Goat Willow Salix caprea Hawthorn Crataegus monogyna	14	580	6	EM / M	F	Branch stubs evident Broken branches evident Crossing and rubbing branches Epicormic growth evident within the crown Interlocking crowns Low crown form Minor dead wood evident in the crown (<75mm) Pruning wounds noted Garden group	152	7.0	B (ii)		
G111	English Oak Quercus robur Hawthorn Crataegus monogyna	7	avg 9x 120	2	EM / M	F / G	Characteristic for species Interlocking crowns Low crown form Multi stemmed from base Poached ground at the base	59	4.3	C (ii)		
G112	English Oak Quercus robur	8	upto 525	3.5	EM / M	F	Bark wounds noted Branch stubs evident Light ivy cover Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted Row of uniform small and compact oak trees stood amongst hedgerow	125	6.3	B (ii)		
G113	Elder Sambucus nigra Hawthorn Crataegus monogyna English Elm Ulmus procera		avg 50 70 110 100	2	SM / EM	F	Dead trees noted Low crown form Outgrown hedgerow Dead elms amongst group	13	2.1	C (ii)		

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
G114	Blackthorn <i>Prunus spinosa</i> Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i> Hazel <i>Corylus avellana</i> Blackthorn <i>Prunus spinosa</i> Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>				EM / M	F	Multi leadered form Multi stemmed from base Outgrown hedgerow			5	1.3	C (ii)
G115	English Oak <i>Quercus robur</i> Leyland Cypress <i>Cupressocyparis leylandii</i>	6.5	avg 110	2	EM / M	F	Multi leadered form Multi stemmed from base Outgrown hedgerow			2	0.8	C (ii)
G116	Acer pseudoplatanus Apple <i>Malus domestica</i> Lawson Cypress <i>Chamaecyparis lawsoniana</i> Leyland Cypress <i>Cupressocyparis leylandii</i>	8.5	upto 500	3.5	EM	F	Bark wounds noted Branch stubs evident			113	6.0	C (ii)
G117	Sycamore <i>Acer pseudoplatanus</i> Apple <i>Malus domestica</i> Lawson Cypress <i>Chamaecyparis lawsoniana</i> Leyland Cypress <i>Cupressocyparis leylandii</i>	12	avg 250	2	EM	G	Characteristic for species Limited future potential Low crown form Sporadic self-seeded group of trees Old landscape planting			28	3.0	B (ii)
G118	Lawson Cypress <i>Chamaecyparis lawsoniana</i> Leyland Cypress <i>Cupressocyparis leylandii</i> Norway Spruce <i>Picea abies</i>	8	upto 185 320	2	SM / EM	F	Characteristic for species Limited future potential Low crown form Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted Sporadic self-seeded group of trees Old landscape planting Row of interlocking leylandii 1x single spruce			62	4.4	C (ii)
G119	Lawson Cypress <i>Chamaecyparis lawsoniana</i> Leyland Cypress <i>Cupressocyparis leylandii</i> Norway Spruce <i>Picea abies</i>	8	upto 185 300	2	SM / EM	F				56	4.2	B (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							RPA	RPA Radius			
G120	Hawthorn Crataegus monogyna Sycamore Acer pseudoplatanus Holly <i>Ilex aquifolium</i>	8 upto 120 110 90 80	2 SM / EM	F		Characteristic for species Limited future potential Low crown form Multi leadered form Multi stemmed from base	19	2.4	C (ii)		
G121	Elder <i>Sambucus nigra</i> Hawthorn Crataegus monogyna Alder <i>Alnus glutinosa</i> Apple <i>Malus domestica</i> Laural <i>Prunus laurocerasus</i> Privet <i>Ligustrum ovalifolium</i> Purple Plum <i>Prunus cerasifera</i> Pissardii	9 upto 375	3 SM / M	F		Bark wounds noted Branch stubs evident Characteristic for species Dense undergrowth at the base Dieback of the crown observed Interlocking crowns Low crown form Multi leadered form Multi stemmed from base Mix of landscape planted trees on site frontage which have become outgrown and developed with poor forms Understory bramble growth throughout group and competing with trees Several trees in a poor condition	64	4.5	C (ii)		
G122	Hawthorn Crataegus monogyna Holly <i>Ilex aquifolium</i> Privet <i>Ligustrum ovalifolium</i> Leyland Cypress <i>Cupressocyparis leylandii</i>	15 upto 410	3 EM / M	F / G		Characteristic for species No major defects were noted Landscape planting Two larger <i>leylandii</i> set amongst trimmed group of interlocking privet and holly shrubs	76	4.9	B (ii)		
G123	Swedish Whitebeam <i>Sorbus intermedia</i>	12 upto 560	4 M	F / G		Bark wounds noted Branch stubs evident Characteristic for species Compacted ground at the base Multi leadered form No major defects were noted Three trees growing within 2m of one and other to form one large uniform and balanced crown	142	6.7	B (ii)		
G124	Apple <i>Malus domestica</i>	5 avg 190	2 EM / M	D / P		Bark wounds noted Dieback of the crown observed Limited future potential Minor dead wood evident in the crown (<75mm) Specimen in extensive decline Sparse in appearance	N/A	N/A	U		

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat	
G125	Laburnum anagyroides	5.5	upto 340	2.5	EM / M	F	Bark wounds noted Characteristic for species Compacted ground at the base Limited future potential Sparse in appearance		52	4.1	C (ii)	
G126	Ash Fraxinus excelsior English Oak Quercus robur Wild Cherry Prunus avium Purple Plum Prunus cerasifera Pissardii Cotoneaster Dogwood Cornus sanguinea			upto 250 380 320	4	EM	F / G		140	6.7	B (ii)	
G127	Wild Cherry Prunus avium Laural Prunus Laurocerasus Purple Plum Prunus cerasifera Pissardii			avg 50 70 110	2	SM / EM	F	Limited future potential Low crown form No major defects were noted Outgrown hedgerow Strip of mainly laurel about 20m in length		9	1.7	C (ii)
G128	English Oak Quercus robur Hawthorn Crataegus monogyna Silver Birch Betula pendula Apple Malus domestica			upto 280	3	SM / EM / M	F / G	Bark wounds noted Branch socket cavities observed Branch stubs evident Characteristic for species Limited future potential Low crown form Minor dead wood evident in the crown (<75mm) No major defects were noted Landscape trees spaced at regular 2-5m interval's Set amongst linear strip of shrub mass planting		35	3.4	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	RPA Cat	BS5837 Cat	
							RPA	RPA	Radius					
G129	English Oak Quercus robur Silver Birch Betula pendula Wild Cherry Prunus avium Purple Plum Prunus cerasifera Pissardii	16	upto 380 300	5	SM / EM	F / G	Base obscured Branch stubs evident Characteristic for species Dense undergrowth at the base Epicormic growth evident within the crown Low crown form Minor dead wood evident in the crown (<75mm) Multi leadered form No major defects were noted Row of mainly oak and silver birch growing alongside railway line with understory formed of native laurel hedge Runs length of access road and past gated entrance stopping at security cabin				106	5.8	B (ii)	
G130	Blackthorn Prunus spinosa English Oak Quercus robur Hawthorn Crataegus monogyna	15	upto 485 370 250	3.5	SM / EM	F / G	Bark wounds noted Branch stubs evident Characteristic for species Coppiced form Light ivy cover Minor dead wood evident in the crown (<75mm) Multi stemmed from base No major defects were noted Coppiced hawthorn set with several larger and more established upper canopy oak trees Positioned along boundary of chemical works and diving canal tow path				197	7.9	B (iii)	
G131	Holly Ilex aquifolium	8	upto 280	3	M	F	Basal suckers present Branch stubs evident Outgrown hedgerow Some stems have basal damage and hollowing				35	3.4	C (ii)	
G132	English Oak Quercus robur	13	upto 450	6	M	G	Interlocking crowns Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) No major defects were noted One of the two trees in this group is twin stemmed				92	5.4	A (ii)	
G133	Aspen Populus tremula	10	upto 210	3	EM	G	Basal suckers present No major defects were noted				20	2.5	C (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
G134	Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	4	upto 170 30 40	2	M	F	Basal suckers present Outgrown hedgerow			14	2.1	C (ii)
G135	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i> Alder <i>Alnus glutinosa</i> Rowan <i>Sorbus aucuparia</i> Whitebeam <i>Sorbus aria</i> Scots Pine <i>Pinus sylvestris</i>	15	upto 450	6	M	F / G	Basal suckers present Branch socket cavities observed Branch stubs evident Broken branches evident Interlocking crowns Light ivy cover Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Multi stemmed from base Single stem forms Twin stemmed from base Prominent roadside group Dominated by oak Minor amounts of other species listed Varying conditions and forms Understory hedgerow sporadic and unmaintained			92	5.4	A (ii)
G136	Crack Willow <i>Salix fragilis</i> Elder <i>Sambucus nigra</i>	7	est 120 150 100 210	4	EM	F	Characteristic for species Situated offsite Unable to gain access			41	3.6	C (ii)
G137	Leyland Cypress <i>Cupressocyparis leylandii</i>	11.5	upto 400	2	M	G	Characteristic for species Interlocking crowns No major defects were noted			72	4.8	C (ii)
G138	English Oak <i>Quercus robur</i>	9	450 200	4	M	G	Characteristic for species Even crown form No major defects were noted			110	5.9	A (ii)
G139	English Oak <i>Quercus robur</i>	7	upto 350	4	EM	G	Characteristic for species Even crown form No major defects were noted			55	4.2	A (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	RPA Cat	BS5837 Cat
							RPA	RPA	Radius				
G140	Blackthorn <i>Prunus spinosa</i> Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i>	upto 200 150 120 80	4	M	F	Broken branches evident Characteristic for species Multi stemmed from base Single stem forms				38	3.5	B (ii)	
G141	English Oak <i>Quercus robur</i>	15	upto 580	6	M	G	Broken branches evident Characteristic for species Even crown form Minor dead wood evident in the crown (<75mm) Two trees separated by 3m			152	7.0	A (ii)	
G142	English Oak <i>Quercus robur</i>	10	upto 380 220 480 550	6	M	G	Characteristic for species Even crown form Low crown form No major defects were noted			328	10.2	A (ii)	
G143	English Oak <i>Quercus robur</i>	10	upto 540	5	M	G	Characteristic for species Even crown form Low crown form No major defects were noted			132	6.5	A (ii)	
G144	Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i> Silver Birch <i>Betula pendula</i> Holly <i>Ilex aquifolium</i> Rowan <i>Sorbus aucuparia</i>						Bark wounds noted Branch stubs evident Broken branches evident Characteristic for species Interlocking crowns Light ivy cover Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Storm damage present Major tree group along lane and field Mixed species understorey Dominated by oak Dry ditch between the trees and lane			408	11.4	A (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	Cat
							RPA	RPA	BS5837			
G145	Crack Willow <i>Salix fragilis</i> English Oak <i>Quercus robur</i> Silver Birch <i>Betula pendula</i> Alder <i>Alnus glutinosa</i> Holly <i>Ilex aquifolium</i> Rowan <i>Sorbus aucuparia</i>		upto 820	7	M	F / G	Broken branches evident Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Willow predominantly around a seasonal wet area Wet ditch roadside Large mature oaks directly adjacent to the south along roadside edge Some fallen larger willows in situ showing active regenerative growth Some branch pruning of overhanging material on roadside Woodland type cover which also extends across the road		304	9.8	A (ii)	
G146	Hawthorn <i>Crataegus monogyna</i>	5	upto 120 100 80 60 150	3	M	F	Characteristic for species Gaps present in hedgerow Outgrown hedgerow Large individual specimen's Patchy distribution		26	2.9	C (iii)	
G147	Alder <i>Alnus glutinosa</i>	8	upto 530	5	M	G	Bark wounds noted Browsing damage noted on main stem Characteristic for species Interlocking crowns Two trees separated by 1.5m Minor branch socket cavities Basal damage		127	6.4	B (ii)	
G148	Ash <i>Fraxinus excelsior</i>	9	230	4	EM	F	Self-seeded specimens Adjacent to entrance No major defects noted		24	2.8	C (i)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
G149	Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	11	upto 360	4	EM / M	G	Predominantly ash, totalling 40 individual specimens 4 oak 1 hawthorn Branch stubs evident Broken branches evident Characteristic for species Established ivy cover Even crown form Light ivy cover Minor dead wood evident in the crown (<75mm) Single stem forms Twin stemmed from base Typical crown form		59	4.3	B (ii)
G150	2 Hawthorn <i>Crataegus monogyna</i>	6	250 180 100	N - 1 S - 2 E - 2 W - 3	M	G	Outgrown hedgerow Pruned to 4m high on the north and south sides		47	3.9	C (ii)
G151	2 Holly <i>Ilex aquifolium</i>	5	350	N - 2 S - 3 E - 1 W - 1	M	F	Has been pruned on east and west sides as part of the maintained hedgerow Some minor exposed heartwood on stems with signs of decay where mechanical damage has occurred through hedge maintenance		55	4.2	C (ii)
G152	1 Field Maple <i>Acer campestre</i> 2 Horse Chestnut <i>Aesculus hippocastanum</i>	6	est 140	3	Yng	G	Young trees Typical form		9	1.7	C (ii)
G153	7 Common Lime <i>Tilia x europaea</i>	16	600	5	M	G	Collection of trees around the boundaries of the church yard, close to the boundary wall Some have been subjected to pollarding, others are still of maiden form Minor dead wood Root develop restrained by presence of low level dry stone wall at edge of church yard and back of footway Extensive basal epicormic growth Some specimens support a light burden of ivy on the lower stems Some branch socket cavities visible Crowns have been lifted in the past		163	7.2	A (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
G154	Leyland Cypress <i>Cupressocyparis leylandii</i>		200 200 200 200	2	M	P	All specimens have been topped Forms a boundary hedge at the edge of the property		90	5.4	C (ii)
G155	3 Lawson Cypress <i>Chamaecyparis lawsoniana</i>		260	2	M	F	Typically characteristic for the species		31	3.1	C (ii)
G156	3 Whitebeam <i>Sorbus aria</i>		330	3	M	F	Ivy growth on lower stems Occasional broken branch Typically characteristic for the species		49	4.0	C (ii)
G157	7 Common Lime <i>Tilia x europaea</i>		650	7	M	G	Major and minor dead wood Light ivy growth on lower stems, on some specimens Characteristic for the species Row around the roundabout; closely planted Interlocked crowns		191	7.8	A (ii)
G158	Several Crack Willow <i>Salix fragilis</i>		400 400 400	6	OM	P	Many fractured and failed stems Group situated around the field pond Nearest tree to A5 has a crown that overhangs the verge, but not the road Abundant dead wood Multiple stemmed forms		N/A	N/A	U
G159	2 Flowering Cherry <i>Prunus Kanzan'</i>		est 280	2	M	F	Situated within a private garden and set back from road by 2-3m Ivy on stems Heavily crown reduced which has resulted in a framework of unproductive stubs		35	3.4	C (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
							RPA	RPA	B5837			
G160	Hybrid Black Poplar <i>Populus x canadensis</i> Sycamore <i>Acer pseudoplatanus</i> Rowan <i>Sorbus aucuparia</i> Silver Birch <i>Betula pendula</i> Hawthorn <i>Crataegus monogyna</i>	Up to 17	670	7	M	F	Tag no 1204 on a stem of poplar Situated alongside industrial complex Poplar are large and mature Other species are part of hedgerow and self-set specimens Ivy growth on stems	203	8.0	B (ii)		
G161	1 Field Maple <i>Acer campestre</i> 1 English oak <i>Quercus robur</i> 1 Poplar spp 1 Sycamore <i>Acer pseudoplatanus</i>		250	Up to 4	M	F	Self seeded origin most likely Situated within small grass verge at side of Station Road and the slip road to canal access Limited growth potential due to growing position	28	3.0	C (ii)		
G162	Lawson Cypress <i>Chamaecyparis lawsoniana</i> Hawthorn <i>Crataegus monogyna</i> Silver Birch <i>Betula pendula</i> Holly <i>Ilex aquifolium</i>		250	Up to 3	M	F	No access for closer assessment; viewed from the road Unmaintained hedgerow on outer edge of group with a small number of standard trees	28	3.0	C (ii)		

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
							RPA	BS5837			
G163	Sycamore Acer pseudoplatanus Hawthorn Crataegus monogyna Scots Pine Pinus sylvestris Common Larch Larix decidua Common Beech Fagus sylvatica	17	500	Up to 6	M	F and G	Limited access for closer assessment; most carried out from the road Hedgerow to edge of group forming an unmaintained boundary Mixed species group Ivy present on many stems Would be in need of management	113	6.0	B (ii)	
G164	Common Lime Tilia x europea Magnolia	6	690	5	M	G	Private trees within the front gardens of properties	215	8.3	B (ii)	
G165	Lawson Cypress Chamaecyparis lawsoniana	14	500	Up to 3	M	G	No access for closer assessment; viewed from the road Typically characteristic for the species	113	6.0	B (ii)	
G166	2 Holly Ilex aquifolium	5	300	1.5	M	F	Typically characteristic for the species	41	3.6	C (ii)	
G167	Holly Ilex aquifolium Common Ash Fraxinus excelsior Hawthorn Crataegus monogyna Elm spp English Oak Quercus robur						Offsite group Edge of woodland formed by an outgrown, unmaintained hawthorn hedgerow	96	5.5	B (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
							RPA	RPA	Radius			
G168	Box <i>Buxus sempervirens</i> Lawson Cypress <i>Chamaecyparis lawsoniana</i> Laurel 1 Common Ash <i>Fraxinus excelsior</i> 1 Silver Birch <i>Betula pendula</i> Hornbeam <i>Carpinus betulus</i> Sycamore <i>Sycamore</i> <i>Acer pseudoplatanus</i>	8-13	350 350	Up to 5	M	F	Typically characteristic for the various species Most material offsite and therefore no access for assessment; viewed from the road			111	5.9	B (ii)
G169	Common Ash <i>Fraxinus excelsior</i> Sycamore <i>Sycamore</i> <i>Acer pseudoplatanus</i> English Oak <i>Quercus robur</i>	13	510	6	M	F	Edge of a small field copse and of sporadic distribution Ivy growth abundant Group includes two freestanding specimens within the triangular grass verge adjacent to the highway			118	6.1	B (ii)
G170	Norway Maple <i>Acer platanoides</i> Whitebeam <i>Sorbus aria</i>	13	400	5	M	F and G	Highway planting; numerous specimens spaced fairly uniformly along the A449 corridor and matching the opposite side Typically characteristic for their respective species			72	4.8	B (ii)
G171	Common Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Horse Chestnut <i>Aesculus hippocastanum</i>	15	650	7	M	F and G	Typically characteristic for the species Some larger oak present Central verge planting Parts of a hedgerow in sections along the length; hawthorn			191	7.8	B (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
G172	Norway Maple <i>Acer platanoides</i> (south side) English Oak <i>Quercus robur</i> (north side)	12-16	450	9	M	F and G	Tree and hedge lined lane off the A449 Trees positioned within the field boundary hedgerow Numerous specimens and due to close spacing, crowns had interlocked Minor and major dead wood Ivy growth present			92	5.4	B (ii)
G173	2 Silver Birch <i>Betula pendula</i>	15	440	6	M	F	Typically characteristic for the species			88	5.3	B (ii)
G174	2 Ash <i>Fraxinus excelsior</i>	11	Up to 450 250	7	M	F	Coppiced forms with multiple stems Dense ivy growth extending into crowns			120	6.2	C (ii)
G175	Leyland Cypress <i>Cupressocyparis leylandii</i> Silver Birch <i>Betula pendula</i> Scots Pine <i>Pinus sylvestris</i>	11	Up to 500	2	M	G	5 Cypress present Set behind the property boundary fence Typically characteristic for their respective species			113	6.0	B (ii)
G176	Alder <i>Alnus glutinosa</i> Hybrid Black Poplar <i>Populus x canadensis</i> Sycamore <i>Acer pseudoplatanus</i> Willow spp Silver Birch <i>Betula pendula</i> English Oak <i>Quercus robur</i>	6-25	350 350 350 350	5	M	G and F	No access Stem estimated maximum Prominent belt of trees lining the eastern side of the canal banks forming a tree lined corridor Mixed species, qualities and conditions with little signs of active management Hybrid Black Poplar are planted in a uniform row at approximately 6m intervals and are fully mature, forming the dominant component of this group (dbh est max 600mm) Major dead wood visible Poplar are interplanted with birch and alder; coppiced			277	9.4	B (ii)

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
G177	English Oak <i>Quercus robur</i> Alder <i>Alnus glutinosa</i> Silver Birch <i>Betula pendula</i>	18	500	Up to 7	M	G and F	Continuation of the prominent belt of trees lining the eastern side of the canal banks forming a tree lined corridor; separated from G176 due to change in species composition Dead and fallen trees present Ivy growth present on stems Interlocked crowns Visible evidence of self-seeded sycamore in places		113	6.0	A (ii)
G178	Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i> Ash <i>Fraxinus excelsior</i> Silver Birch <i>Betula pendula</i> English Oak <i>Quercus robur</i> Hybrid Black Poplar <i>Populus x canadensis</i>	8-22	Up to 500	Up to 7	M	G and F	Belt of trees lining the western side of the canal banks forming a tree lined corridor; some trees are within the perimeter fencing of the chemical works yet in proximity to the canal to form a continual canopy with those on the banks of the canal Many coppiced and multiple stemmed forms through historic management of the canal side vegetation For most of the length there is an outgrown, unmaintained hedgerow of hawthorn Hybrid Black Poplar are situated towards the southern end and have been formally row planted with equal spacing around the boundary of the chemical works; fully mature	113	6.0	B (ii)	
G179	2 English Oak <i>Quercus robur</i>	14	Up to 650	Up to 6	M	G	Typically characteristic for the species Ivy present on lower stems	191	7.8	B (ii)	
G180	English Oak <i>Quercus robur</i> Beech <i>Fagus sylvatica</i> Hawthorn <i>Crataegus monogyna</i>	13	400	5	M	G and F	Hawthorn hedgerow running along the length of the boundary with private dwellings, occasional breaks for access points Trees within the hedgerow at random intervals West side of the dual footway / cycleway Occasional holly noted Ivy present on lower stems	72	4.8	B (ii)	

Group No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
G181	Hawthorn Crataegus monogyna Hazel Corylus avellana English Oak Quercus robur Common Lime Tilia x europaea		ave 350	4	M	G and F	Hawthorn and hazel hedgerow running along the length of the section with trees at random intervals East side of the dual footway / cycleway Ivy present on lower stems Noted, a lime has been crown reduced Noted, single oak of larger proportions with stem of 750mm dbh			55	4.2	B (ii)
G182	Leyland Cypress Cupressocyparis leylandii	7	up to 150	1	M	G	Offsite group forming a conifer screen to the boundary of the dwelling Topped in height			10	1.8	C (ii)
G183	Scots Pine Pinus sylvestris Black Pine Pinus nigra Ash Fraxinus excelsior Sycamore Acer pseudoplatanus Beech Fagus sylvatica		Up to 450	4	M	G	Offsite wooded copse of mixed deciduous and evergreen species Noted, some failed specimens Little evidence of any active management			92	5.4	B (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA Radius	RPA Cat
							RPA	RPA Radius	BS5837 Cat		
HEDGEROWS											
H1	Hawthorn <i>Crataegus monogyna</i>	2	avg 50	0.5	SM	F	Maintained hedgerow	1	0.6	C (ii)	
H2	Blackthorn <i>Prunus spinosa</i> Common Lime <i>Tilia x europaea</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	2	100	1	SM / EM	F	Maintained hedgerow Gaps present in hedgerow	5	1.2	C (ii)	
H3	Blackthorn <i>Prunus spinosa</i> Common Lime <i>Tilia x europaea</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	2	100	1	SM / EM	F	Maintained hedgerow Gaps present in hedgerow	5	1.2	C (ii)	
H4	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	1.5	est 30	0.5	SM	P	Maintained hedgerow Dense undergrowth at the base	0	0.4	C (ii)	
H5	Hawthorn <i>Crataegus monogyna</i> Hazel <i>Corylus avellana</i>	2.5	avg 90	1	EM / M	F	Maintained hedgerow Gaps present in hedgerow Dead trees noted Close cultivation of soil	4	1.1	C (ii)	
H6	Ash <i>Fraxinus excelsior</i> Hawthorn <i>Crataegus monogyna</i>	1.5	avg 30	0.5	SM	F	Maintained hedgerow Self seeded hedgerow specimens present Dense undergrowth at the base	0	0.4	C (ii)	
H7	Ash <i>Fraxinus excelsior</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	1.5	avg 50	1	EM / M	G	Maintained hedgerow	1	0.6	B (iii)	

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
H8	Hawthorn <i>Crataegus monogyna</i>	2	avg 50	0.5	EM	G	Maintained hedgerow		1	0.6	B (iii)
H9	Hawthorn <i>Crataegus monogyna</i>	1.5	avg 60	0.5	EM / M	G	Maintained hedgerow		2	0.7	B (iii)
H10	Hawthorn <i>Crataegus monogyna</i>	2	50	0.5	M	G	Maintained hedgerow		4	1.1	B (iii)
H11	Leyland Cypress <i>Cupressocyparis leylandii</i>	2	avg 80	0.5	EM / M	G	Maintained hedgerow		3	1.0	B (iii)
H12	Hawthorn <i>Crataegus monogyna</i>	2	avg 50 40 60	0.5	M	G	Maintained hedgerow		3	1.1	B (iii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
H13	Ash Fraxinus excelsior Elder Sambucus nigra Hawthorn Crataegus monogyna	2	est 50 50 50	2	EM	F	Dense undergrowth at the base Flail damage evident Gaps present in hedgerow Maintained hedgerow Overhead cables			3	1.0	C (ii)
H14	Elder Sambucus nigra Hawthorn Crataegus monogyna Holly Ilex aquifolium	1	est 40 40 40	0.5	EM	F	Maintained hedgerow			2	0.8	C (ii)
H15	English Oak Quercus robur Goat Willow Salix caprea Hawthorn Crataegus monogyna	2	est 6x 50	1	EM	F	Crossing and rubbing branches Flail damage evident Maintained hedgerow			7	1.5	C (ii)
H16	Elder Sambucus nigra English Oak Quercus robur Field Maple Acer campestre Goat Willow Salix caprea Hawthorn Crataegus monogyna	3	est 6x 60	1	EM	F	Crossing and rubbing branches Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)
H17	Elder Sambucus nigra English Oak Quercus robur Hawthorn	2	est 6x 60	1	EM	F	Crossing and rubbing branches Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)
H18	Elder Sambucus nigra Hawthorn Crataegus monogyna Holly Ilex aquifolium Prunus sp.	5	est 6x 50	1	EM	F	Crossing and rubbing branches Interlocking crowns Low crown form Outgrown hedgerow Overhead cables			7	1.5	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	Radius	BS5837 Cat
H19	Crataegus monogyna English Elm Ulmus procera Privet Ligustrum ovalifolium	2	est 6x 40	0.5	EM	F	Base obscured Dense undergrowth at the base Interlocking crowns Low crown form Maintained hedgerow		4	1.2	C (ii)
H20	Elder Sambucus nigra English Oak Quercus robur Hawthorn Crataegus monogyna	1	est 6x 40	0.5	EM	F	Dense undergrowth at the base Gaps present in hedgerow Maintained hedgerow		4	1.2	C (ii)
H21	English Oak Quercus robur Hawthorn Crataegus monogyna Alder Alnus glutinosa Rowan Sorbus aucuparia	1.5	20 40	0.5	EM	P	Dense ivy cover on main stem Dense undergrowth at the base Un-maintained hedgerow		1	0.5	C (ii)
H22	English Oak Quercus robur Hawthorn Crataegus monogyna Alder Alnus glutinosa Rowan Sorbus aucuparia	1.5	20 40	0.5	EM	P	Dense ivy cover on main stem Dense undergrowth at the base Un-maintained hedgerow		1	0.5	C (ii)
H23	English Oak Quercus robur Hawthorn Crataegus monogyna	2	avg 60	0.5	EM	F	Characteristic for species Maintained hedgerow		2	0.7	B (ii)
H24	Blackthorn Prunus spinosa Hawthorn Crataegus monogyna	2	avg 60	0.5	EM	F	Characteristic for species Maintained hedgerow		2	0.7	B (ii)
H25	Hawthorn Crataegus monogyna Laural Prunus laurocerasus	2.5	avg 70	0.5	EM	F	Characteristic for species Maintained hedgerow		2	0.8	B (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
H26	Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	1.5	60	0.5	EM	F	Dense undergrowth at the base Gaps present in hedgerow Un-maintained hedgerow Outgrown specimens		2	0.7	C (ii)
H27	Hawthorn <i>Crataegus monogyna</i>	2	upto 100	0.5	EM	F	Dense undergrowth at the base Maintained hedgerow		5	1.2	B (ii)
H28	Ash <i>Fraxinus excelsior</i> Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i>	2	est 50 50	0.5	SM / EM	P	Un-maintained hedgerow Happy and broken with bracken taking over		2	0.8	C (i)
H29	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Wild Cherry <i>Prunus avium</i>	1.5	est 50 50	0.5	SM / EM	F	Maintained hedgerow		2	0.8	C (i)
H30	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	2	est 50 50	1	SM / EM	F	Un-maintained hedgerow		2	0.8	C (i)
H31	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Wild Cherry <i>Prunus avium</i>	1.5	est 50 50	0.5	SM / EM	F	Maintained hedgerow		2	0.8	C (i)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
H32	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Wild Cherry <i>Prunus avium</i>	est 50 3	50 50	1.5	SM / EM	F	Un-maintained hedgerow			2	0.8	C (i)
H33	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	1.5	50	0.5	SM / EM	F	Maintained hedgerow			1	0.6	C (i)
H34	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Holly	4	120	1	SM / EM	F	Un-maintained hedgerow			7	1.4	C (i)
H35	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	2	150 150 150	1	M	F	Crossing and rubbing branches Old laid forms Un-maintained hedgerow			31	3.1	C (ii)
H36	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	est 80 2	80 80 80	1	EM	F	Crossing and rubbing branches Dense undergrowth at the base Maintained hedgerow Gravel works surrounding			12	1.9	C (ii)
H37	English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	est 60 2	60 60 60	1	M	F	Crossing and rubbing branches Dense ivy cover on main stem Dense undergrowth at the base Gaps present in hedgerow Maintained hedgerow			8	1.6	C (ii)
H38	Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>	1.5	est 6x 60	0.5	EM	F	Crossing and rubbing branches Dense undergrowth at the base Maintained hedgerow			10	1.8	C (ii)
H39	English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn	2	est 6x 60	1	EM	F	Base obscured Crossing and rubbing branches Dense undergrowth at the base Maintained hedgerow			10	1.8	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
H40	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	2	est 6x 60	1	EM	F	Crossing and rubbing branches Flail damage evident Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)
H41	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i>	1.5	est 100 100 100	0.5	M	F	Crossing and rubbing branches Flail damage evident Maintained hedgerow Old laid forms			14	2.1	C (ii)
H42	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i>	1	est 6x 50	0.5	EM	P	Base obscured Dense ivy cover on main stem Dense undergrowth at the base Un-maintained hedgerow			7	1.5	C (ii)
H43	Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	1.5	est 6x 60	0.5	EM	F	Maintained hedgerow			10	1.8	C (ii)
H44	Hawthorn <i>Crataegus monogyna</i>	4	upto 120	1	M	F	Dense undergrowth at the base Outgrown hedgerow			7	1.4	C (ii)
H45	Hawthorn <i>Crataegus monogyna</i>	2	6x 60	0.5	EM	F	Crossing and rubbing branches Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)
H46	Hawthorn <i>Crataegus monogyna</i>	1.5	est 6x 60	1	EM	F	Dense undergrowth at the base Maintained hedgerow			10	1.8	C (ii)
H47	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i>	1.5	est 6x 60	0.5	EM	F	Crossing and rubbing branches Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	B55837 Cat
H48	<i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i> Holly <i>Ilex aquifolium</i>	Hawthorn 1.5	est 6x 60	1	M	F	Crossing and rubbing branches Dense undergrowth at the base Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)
H49	<i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>	Goat Willow <i>Salix caprea</i> Hawthorn 1.5	est 6x 60	1	M	F	Crossing and rubbing branches Dense undergrowth at the base Gaps present in hedgerow Maintained hedgerow			10	1.8	C (ii)
H50	<i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>	Elder <i>Sambucus nigra</i> Hawthorn 1	est 150	0.5	M	F	Broken branches evident Crossing and rubbing branches Gaps present in hedgerow Maintained hedgerow Old laid forms Some sections outgrown			31	3.1	C (ii)
H51	<i>Crataegus monogyna</i> Alder <i>Sambucus nigra</i> Hawthorn	4	est 6x 60	0.5	M	F	Broken branches evident Crossing and rubbing branches Outgrown hedgerow			10	1.8	C (ii)
H52	<i>Crataegus monogyna</i> Alder <i>Sambucus nigra</i> Hawthorn	2	est 150	1	M	F	Crossing and rubbing branches Old laid forms NB height increases to 4m in the central section close to H51 and returns to 2m at the southern end			31	3.1	C (ii)
H53	<i>Crataegus monogyna</i>	Hawthorn 2	est 6x 70	1	M	F	Crossing and rubbing branches Dense undergrowth at the base Gaps present in hedgerow Interlocking crowns Maintained hedgerow Outgrown in places			13	2.1	C (ii)
H54	<i>Crataegus monogyna</i> Wild Cherry <i>Prunus avium</i>	Elder <i>Sambucus nigra</i> Hawthorn 1.5	est 6x 60	1	EM	F	Crossing and rubbing branches Dense undergrowth at the base Maintained hedgerow			10	1.8	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
H55	English Oak Quercus robur Hawthorn Crataegus monogyna Holly Ilex aquifolium	1.5	est 6x 60	1	EM	F	Base obscured Dense undergrowth at the base Un-maintained hedgerow			10	1.8	C (ii)
H56	Hawthorn Crataegus monogyna Alder Alnus glutinosa	1.5	est 6x 60	1	EM	F	Base obscured Dense undergrowth at the base Un-maintained hedgerow			10	1.8	C (ii)
H57	Hawthorn Crataegus monogyna	1.5	est 6x 60	0.5	EM	F	Crossing and rubbing branches Dense undergrowth at the base Maintained hedgerow			10	1.8	C (ii)
H58	Elder Sambucus nigra English Oak Quercus robur Hawthorn Crataegus monogyna Hazel Corylus avellana Holly Ilex aquifolium Privet Ligustrum ovalifolium Prunus sp.						Maintained hedgerow			5	1.2	C (ii)
H59	Hawthorn Crataegus monogyna	2.5	upto 100 80 50	0.5	M	G	Maintained hedgerow			9	1.6	B (iii)
H60	Hawthorn Crataegus monogyna	2	upto 100 80 50	0.5	M	G	Maintained hedgerow			9	1.6	B (iii)
H61	Hawthorn Crataegus monogyna Wych Elm Ulmus glabra	2.5	upto 100 80 50	0.5	M	G	Maintained hedgerow			9	1.6	B (iii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	Radius	BS5837 Cat
H62	Hawthorn <i>Crataegus monogyna</i>	1	avg 40	0.25	EM	F	Dense ivy cover on main stem Poor hedgerow			1	0.5	C (iii)
H63	Laural <i>Prunus laurocerasus</i>	1.2	avg 70	1	M	G	Maintained hedgerow Runs along the length of the access road set back by 1m Regularly trimmed			2	0.8	B (iii)
H64	Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i>	1.5	avg 50 80 100	0.5	M	G	Maintained hedgerow Lots of honeysuckle			10	1.8	B (ii)
H65	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i>	6	est 80 120 100	2	M	F	Basal suckers present Base obscured Crossing and rubbing branches Dead trees noted Dieback of the crown observed Established ivy cover Outgrown hedgerow Situated offsite Un-maintained hedgerow			16	2.3	B (ii)
H66	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	4	est 80 60 100 120	1.5	M	G	Base obscured Characteristic for species Outgrown hedgerow Un-maintained hedgerow			16	2.2	B (ii)
H67	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i>	1.5	est 50 50 60 40	0.5	M	G	Maintained hedgerow			5	1.2	C (ii)
H68	Blackthorn <i>Prunus spinosa</i> Hawthorn <i>Crataegus monogyna</i>		upto 120 250 100	3	M	G	Outgrown hedgerow Un-maintained hedgerow Single large hawthorn to a height of around 7m at northern end			39	3.5	C (ii)
H69	Hawthorn <i>Crataegus monogyna</i>	1.5	avg 50 60 80	0.5	M	G	Maintained hedgerow			6	1.3	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
H70	Holly <i>Ilex aquifolium</i>	5	upto 40 60 80	1.5 M	G	Outgrown hedgerow		7	1.5	C (ii)		
H71	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Alder	2	upto 60 60 50	1 M	G	Maintained hedgerow In places gappy		4	1.2	C (ii)		
H72	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i>	2	80 80	1 avg 50 60	M 0.5	G	Maintained hedgerow		8	1.6	C (ii)	
H73	Hawthorn <i>Crataegus monogyna</i>	2	80	avg 50 60	M 0.5	G	Maintained hedgerow		6	1.3	C (ii)	
H74	Hawthorn <i>Crataegus monogyna</i>	1.5	avg 50 60	0.5	M	G	Maintained hedgerow		6	1.3	C (ii)	
H75	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn	1.5	80 100 80	0.5	M	G	Maintained hedgerow		10	1.8	B (ii)	
H76	Ash <i>Fraxinus excelsior</i> Hawthorn <i>Crataegus monogyna</i>	5	120 180 80 120	2	M	G	Characteristic for species Interlocking crowns Multi stemmed from base Outgrown hedgerow		31	3.1	B (ii)	
H77	Hawthorn <i>Crataegus monogyna</i>	1.5	75 75 75	0.5	M	G	Three separate sections with gaps inbetween Maintained		8	1.6	C (ii)	
H78	Hawthorn <i>Crataegus monogyna</i> Hazel <i>Corylus avellana</i>	1.5	75 75 75	0.5	M	G	Contains a small section of hazel to the west of the gateway Laid form Maintained		8	1.6	C (ii)	

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition	RPA	RPA Radius	B5837 Cat
H79	Hawthorn Crataegus monogyna Holly <i>Ilex aquifolium</i>	3	est.300	1.5	M	G	Maintained Well established hedgerow with individual tree forms Ivy clad stems for a number of specimens	41	3.6	B (ii)
H80	Hawthorn Crataegus monogyna	1	upto 60 60 50	1.5	M	G	Maintained Evidence of laid form	4	1.2	C (ii)
H81	Privet	1	50 50	1.5	M	G	Maintained hedgerow	6	1.3	C (ii)
H82	Privet	1	50 50	1.5	M	G	Maintained hedgerow	6	1.3	C (ii)
H83	Hawthorn Crataegus monogyna Holly <i>Ilex aquifolium</i>	0.5	60 60	0.5	M	G	Maintained hedgerow	5	1.2	C (ii)
H84	Hawthorn Crataegus monogyna	2	80 80	0.5	M	G	Maintained hedgerow; private boundary	9	1.7	C (ii)
H85	Hawthorn Crataegus monogyna English Oak <i>Quercus robur</i>	2	60 60	1.5	M	G	Unmaintained hedgerow with sporadic growth	5	1.2	C (ii)
H86	Hawthorn Crataegus monogyna	4	90	0.5	M	G	Unmaintained hedgerow with sporadic growth	4	1.1	C (ii)
H87	Hawthorn Crataegus monogyna Holly <i>Ilex aquifolium</i> Forsythia	1.5	60 60 60	0.5	M	G	Maintained hedgerow; private boundary	5	1.2	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
H88	Hawthorn <i>Crataegus monogyna</i>	2	70 70	1 70	M	G	Maintained hedgerow; field boundary		11	1.9	B (ii)
H89	Holly <i>Ilex aquifolium</i> Common Lime <i>Tilia europaea</i>	0.5	50 50	0.5 50	M	F	Maintained hedgerow		3	1.0	C (ii)
H90	Hawthorn <i>Crataegus monogyna</i> Holly <i>Ilex aquifolium</i>	5	100 100 100	1.5 100	M	G	Broken into several sections Unmaintained hedgerow Festooned with ivy		14	2.1	C (ii)
H91	Hawthorn <i>Crataegus monogyna</i>	1	60 60	0.5 60	M	G	Maintained hedgerow; field boundary		5	1.2	C (ii)
H92	Ash <i>Fraxinus excelsior</i> Sycamore <i>Acer pseudoplatanus</i>	3	150	0.5	M	F	Some specimens have been topped at 3m with 3m regrowth and others not Boundary hedge to private dwelling Ivy growth present		10	1.8	C (ii)
H93	Hawthorn <i>Crataegus monogyna</i>	1.5	50 50	0.5 50	M	G	Maintained hedgerow		5	1.2	C (ii)
H94	Ash <i>Fraxinus excelsior</i> Hawthorn <i>Crataegus monogyna</i> Elder Holly <i>Ilex aquifolium</i> Sycamore <i>Acer pseudoplatanus</i> Privet	1.5	70 70 70	0.5 70	M	G	Maintained hedgerow; either side of the lane South side is more sporadic in nature and gappy North side is more continual and in better condition		9	1.7	C (ii)
H95	Hawthorn <i>Crataegus monogyna</i>	4	150	2	M	F	Maintained hedgerow		6	1.3	C (ii)
H96	Hawthorn <i>Crataegus monogyna</i>						Edge of a waterlogged field Unmaintained Outgrown form and fully tree forms Situated at lower level than the road / footway		10	1.8	C (ii)

Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition			RPA	RPA Radius	BS5837 Cat
H97	Hawthorn Crataegus monogyna Elm spp	1	80 80	0.5	M	G	Laid form Maintained Dense and compacted structure Ivy present in places			9	1.7	C (ii)
H98	Leyland Cypress Cupressocyparis leylandii Hawthorn Crataegus monogyna Holly Ilex aquifolium	3	120	0.5	M	F	NB Weeping willow tree on western edge Situated behind private boundary wall of property Conifer have been topped / reduced in height			7	1.4	C (ii)
H99	Hawthorn Crataegus monogyna	1.5	80 80	0.5	M	G	Maintained Dense and compacted structure			9	1.7	B (ii)
H100	Hawthorn Crataegus monogyna	1.5	80 80	0.5	M	G	Maintained Dense and compacted structure			9	1.7	B (ii)
H101	Snowberry and Privet	1	30 30	0.5	M	G	Maintained			2	0.8	C (ii)
H102	Hawthorn Crataegus monogyna	3	90 90	0.5	M	G	Maintained			11	1.9	B (ii)
H103	Hawthorn Crataegus monogyna	6	100 100 100	0.5	M	G	Maintained Previously topped at 3m, now with regrowth at 2m			14	2.1	B (ii)
H104	Hawthorn Crataegus monogyna	2	Up to 120	1	M	G	Maintained Previously topped at 1m, with with regrowth at 1m			7	1.4	C (ii)

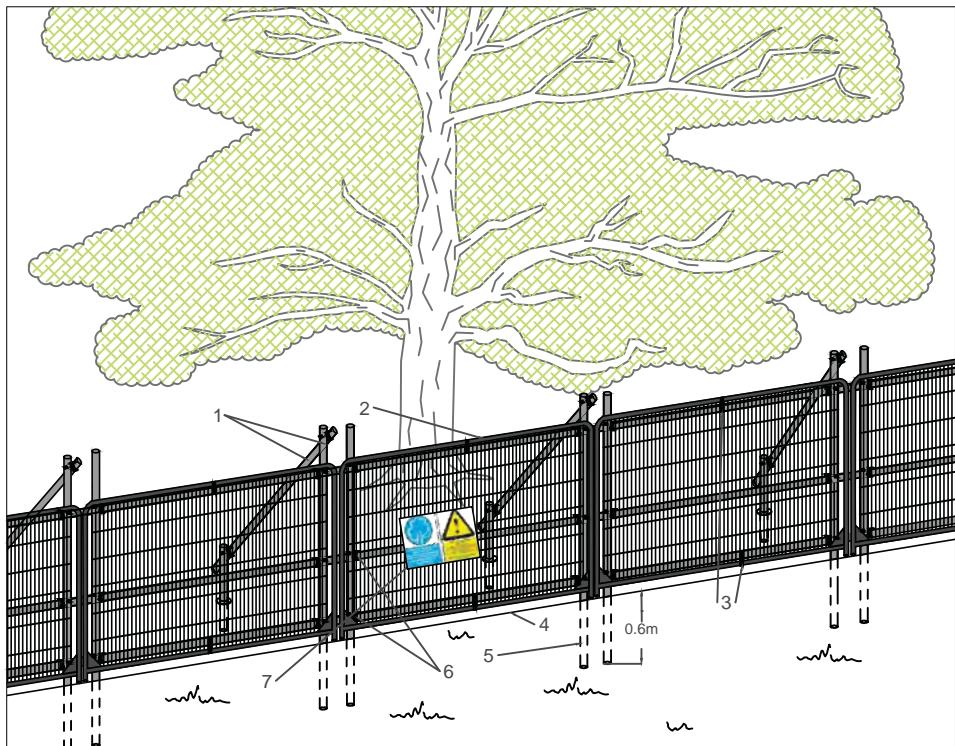
Hedge No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition	RPA	RPA Radius	BS5837 Cat
H105	Hawthorn <i>Crataegus monogyna</i>	3	80 80 80	1	M	G	Maintained Previously topped at 2m	9	1.7	C (ii)
H106	Hawthorn <i>Crataegus monogyna</i>	2	90 90 90	0.5	M	G	Maintained	11	1.9	B (ii)
H107	Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i>	4	Up to 100	1	M	F	Outgrown and unmaintained	5	1.2	C (ii)
H108	Hawthorn <i>Crataegus monogyna</i>	2	90 90 90	0.5	M	G	Maintained	11	1.9	B (ii)

Wood No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	RPA	Radius	BSS5837 Cat		
WOODLANDS											
Structural Condition											
W1	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Sycamore <i>Acer pseudoplatanus</i> Sweet Chestnut <i>Castanea sativa</i> Austrian Pine <i>Pinus nigra</i> ssp. <i>Nigra</i> Scots Pine <i>Pinus sylvestris</i>		avg 400	4	EM	G	Dense undergrowth Interlocking crowns Minor dead wood evident in the crown (<75mm) Storm damage present Understory species present	72	4.8	A (ii)	
W2	Elder <i>Sambucus nigra</i> Hawthorn <i>Crataegus monogyna</i> Alder <i>Alnus glutinosa</i> Austrian Pine <i>Pinus nigra</i> ssp. <i>Nigra</i> Scots Pine <i>Pinus sylvestris</i>		avg 350	3	EM / M	G	Characteristic for species Interlocking crowns Minor dead wood evident in the crown (<75mm) No major defects were noted	55	4.2	B (iii)	
W3	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Silver Birch <i>Betula pendula</i> Holly <i>Ilex aquifolium</i> Laural <i>Prunus Laurocerasus</i> Mountain Ash <i>Sorbus aucuparia</i> Turkey Oak <i>Quercus cerris</i> Austrian Pine <i>Pinus nigra</i> ssp. <i>Nigra</i> Scots Pine <i>Pinus sylvestris</i>			upto 700	8	SM / EM / M	F	Branch socket cavities observed Branch stubs evident Broken branches evident Crossing and rubbing branches Dead trees noted Dense undergrowth at the base Dieback of the crown observed Epicormic growth evident within the crown Etiolated form Interlocking crowns Low crown form Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Mixture of broadleaf and conifer plantation Fomes fomentarius, Tinder fungus	222	8.4	A (ii)

Wood No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
W4	English Oak Quercus robur Horse Chestnut Aesculus hippocastanum Silver Birch Betula pendula Alder Alnus glutinosa Holly Ilex aquifolium Rowan Sorbus aucuparia Beech				M	G	Characteristic for species Dead trees noted Failed trees Interlocking crowns Multi stemmed from base Single stem forms Sporadic self-seeded group of trees Holly understorey would benefit from future management		417	11.5	B (ii)
W5	Fagus sylvatica English Oak Quercus robur Silver Birch Betula pendula Mountain Ash Sorbus aucuparia Sweet Chestnut Castanea sativa Austrian Pine Pinus nigra ssp. Nigra Scots Pine Pinus sylvestris Sitka Spruce Picea sitchensis				Yng / SM / EM / M / OM	G	Interlocking crowns Light ivy cover Minor dead wood evident in the crown (<75mm) Trees at north west corner poorly pruned to clear EL Limited understorey		408	11.4	A (ii)

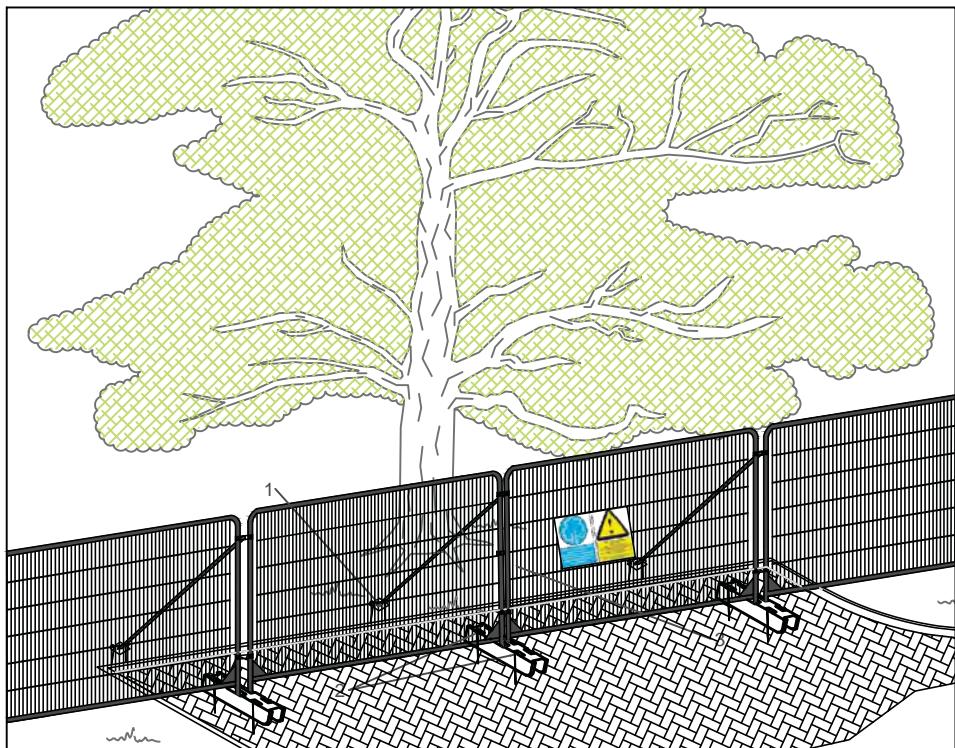
Wood No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition	RPA	RPA Radius	BS5837 Cat
W6	Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Sycamore <i>Acer pseudoplatanus</i> Aspen <i>Populus tremula</i> False Acacia <i>Robinia pseudoacacia</i> Grey Poplar <i>Populus x canescens</i> Holly <i>Ilex aquifolium</i> Turkey Oak <i>Quercus cerris</i>			upto 700	8	SM / EM / M	F			
W7	Ash <i>Fraxinus excelsior</i> Common Lime <i>Tilia x europaea</i> English Oak <i>Quercus robur</i> Goat Willow <i>Salix caprea</i> Hawthorn <i>Crataegus monogyna</i> Horse Chestnut <i>Aesculus</i> Hippocastanum Silver Birch <i>Betula pendula</i> Wych Elm <i>Ulmus glabra</i> Mountain Ash <i>Sorbus aucuparia</i> Turkey Oak <i>Quercus cerris</i>			upto 820	6	SM / EM / M	F / G			

Wood No	Species	Height	Stem Dia.	Crown Radius	Age Class	Overall Condition	Structural Condition		RPA	RPA Radius	BS5837 Cat
							F/G	SM / EM / M			
W8	Ash <i>Fraxinus excelsior</i> Blackthorn <i>Prunus spinosa</i> Elder <i>Sambucus nigra</i> English Oak <i>Quercus robur</i> Hawthorn <i>Crataegus monogyna</i> Silver Birch <i>Betula pendula</i> Wych Elm <i>Ulmus glabra</i> Alder <i>Alnus glutinosa</i> Holly <i>Ilex aquifolium</i> Mountain Ash <i>Sorbus aucuparia</i> Turkey Oak <i>Quercus cerris</i>						Characteristic for species Dead trees noted Dense ivy cover on main stem Dense undergrowth at the base Dieback of the crown observed Epicormic growth evident within the crown Interlocking crowns Major dead wood evident in the crown (>75mm) Minor dead wood evident in the crown (<75mm) Multi leadered form Multi stemmed from base Oak and chestnut form upper canopy with several larger oak along northern edge of woodland Distinct canopy layers separate woodland from being classified as a group Good species diversity making for attractive landscape feature Wet underfoot toward north east corner (close to mile road) Several birch stood in waterlogged ground dying back	92	5.4	A (iii)	



Standard specification for protective barrier

- Standard scaffold poles
- Heavy gauge 2m tall galvanized tube and welded mesh infill panels
- Panels secured to scaffold frame with wire ties
- Ground level
- Uprights driven into the ground until secure (min depth of 0.6m)
- Standard scaffold clamps
- Construction Exclusion Zone signs



Above ground stabilising systems

- Stabiliser strut with base plate secured with ground pins
- Feet blocks secured with ground pins
- Construction Exclusion Zone signs

Protective Fencing to be positioned to the specified dimensions in accordance with Figure 3 Tree Retention Plan

NOTES

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APPENDIX B PROTECTIVE FENCING SPECIFICATIONS