

Havant Thicket Reservoir Project

Phase 1 - Northern Access Planning Conditions and Northern Access Route Reserved Matters Application and Planning Conditions (Hybrid Consent APP/20/00990 and 51680/001)

Arboricultural Impact Assessment Addendum and Arboricultural Method Statement – Technical Note

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1. Introduction

1.1. Terms of reference

- 1.1.1. Atkins Limited (Atkins) has been commissioned by Portsmouth Water (PW) to draft a technical note to form an addendum to the approved Arboricultural Impact Assessment for Reserved Matters and the discharge of Planning Conditions relating to the Northern Access and Northern Access Route (Phase 1) in connection with the Hybrid Planning Permission (references APP/20/00990 and 51680/001) for a Reservoir and associated infrastructure (the Approved Scheme) on land at Havant Thicket, adjacent to Sir George Staunton Country Park and Middle Park Way, Havant.
- 1.1.2. This technical note supplements and supersedes tree data supplied as part of the submitted Hybrid Planning Application Environment Statement (ES) which included an Arboricultural Impact Assessment (AIA) as Appendix A9.14. Produced by Atkins in September 2020. (Doc no. HTR-ATK-ZZ-ZZ-RP-L-0001).
- 1.1.3. The technical note confirms tree impacts and protection measures required for Phase 1 of the Approved Scheme. It also includes additional tree data which has been collected in accordance with the British Standard BS5837:2012 'Trees in Relation to Design, Demolition and Construction – Recommendations'.
- 1.1.4. The additional trees have been included as part of the detailed design process to confirm the impacts on individual trees previously included as part of larger groups. Section 4 of this technical note includes an Arboricultural Method Statement (AMS). These details shall be adopted by the Contractor to protect retained trees.
- 1.1.5. The technical note should be read in conjunction with the Tree Works Plans and Tree Protection Plans (TPPs) drawing numbers:
- HTR-ATK-RZ-RE-DR-L-1141 – Tree Works Plans
 - HTR-ATK-RZ-RE-DR-L-1143 – Tree Works Plans
 - HTR-ATK-RZ-RE-DR-L-1144 – Tree Works Plans
 - HTR-ATK-RZ-RE-DR-L-1145 – Tree Protection Plan
 - HTR-ATK-RZ-RE-DR-L-1146 – Tree Protection Plan
 - HTR-ATK-RZ-RE-DR-L-1147 – Tree Protection Plan
- 1.1.6. These plans show the layouts of the works and the trees that are being removed to facilitate the scheme, and the provisional location of tree protection measures. The survey schedule in Appendix A of this report includes Site wide tree survey data with changes to the Planning Application (AIA) having occurred only to the Phase 1 impacted trees, the remaining trees are greyed out. The following data is included:
- BS5837:2012 survey data in line with the submitted ES AIA, including newly recorded trees that previously formed part of larger group recordings within the ES AIA
 - Crown lift requirements – recorded trees are either YES/NO for crown lifting for Phase 1 impacted trees (where not filled in then the tree(s) does not form part of this phase)
 - 'No dig' - Cellweb construction adjacent to trees - recorded trees are either YES/NO for Phase 1 impacted trees (where not filled in then the tree(s) does not form part of this phase)

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- Impacts Column – updated from the Planning Application (AIA) for Phase 1 impacted trees. Trees identified for retain (RET), part remove (PRG) and remove (REM). These are colour coded green, orange, and red respectively
- Bat potential – where recorded trees have been identified as having bat potential this is included in the schedule as either low, moderate, or high for the Phase 1 impacted trees. These are colour coded yellow, orange, and red respectively. Where no text is included then the tree has been deemed negligible for bat potential.

1.1.7. The tree ID numbers are the same as the Planning Application (AIA) where previously recorded. Where tree tags have been added to recorded trees, these are covered in brackets within the tree ID column. Where new trees have been recorded these have been tagged with numbered aluminium tree tags and these references included within the survey schedule. Where new groups have been added then these numbers follow the sequence of the Planning Application (AIA). The new trees have been plotted either by a land surveyor team or by the Arboriculturist using a proprietary GIS data capture software on Trimble hand-held mobile mappers.

1.1.8. This report has been produced by the Atkins Associate arboriculturist Tom Dale BSc (Hons), Cert Arb L6 (ABC), M.Arbor.A.

1.2. Phase 1 Scheme

1.2.1. As part of the Hybrid consent, full planning permission was granted for a Northern Access junction, subject to Planning Conditions, and outline planning permission was granted for the Northern Access Route, from the Northern Access to the reservoir site, subject to Reserved Matters Application and Planning Conditions.

1.2.2. The access junction on and adjoining the B2149 is subject to a Section 278 Agreement with Hampshire County Council as this will become adopted highway. The access area adjoining this and the access route to the reservoir comprise Phase 1 of the approved reservoir scheme. All proposed works are within the footprint and red line boundary of the Approved Reservoir Scheme. This report and associated drawings support the submission of the Reserved Matters Application and Planning Conditions applications (Phase 1 Application) to Havant Borough Council (HBC) and East Hampshire District Council (EHDC). The design of the works on the B2149 which are part of the s278 Agreement are inextricably linked to the Phase 1 Scheme and are discussed as part of this report.

1.2.3. The Hybrid Consent was granted on 15th October 2021 by HBC (Application Ref. APP/20/00990) and EHDC (Application Ref. 51680/001). The Hybrid Consent includes a series of Pre-commencement Conditions.

1.2.4. Condition 27 of the Phase-specific conditions for Phase 1 covers trees. Summary of condition requirements:

- Tree survey and updated AIA, Arboricultural Method Statement and Tree Protection Plan (TPP)

1.2.5. The TPPs shall cover the existing tree constraints, this includes crown spreads, root protection areas and BS Categories.

1.2.6. This report shall also support the Section 106 Legal Agreement as part of commitments which need to be discharged prior to commencement of development (excluding site enabling works). It shall be submitted directly to HBC/EHDC.

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1.3. Phase 1 Application site

- 1.3.1. The Phase 1 Application Site, comprising the Northern Access Junction with the B2149 and the Northern Access Route down into the reservoir site, is located to the north of the town of Havant, in the county of Hampshire.
- 1.3.2. Phase 1 lies within the two local planning authorities of HBC and EHDC. The boundary of the South Downs National Park (SDNP) lies to the east.
- 1.3.3. The tree survey schedule covers the Site wide trees recorded as part of the wider Project. The impacts on the trees outside of Phase 1 have not been reviewed as part of this technical note.

1.4. Environmental context

- 1.4.1. An Environmental Context Plan is provided as Appendix B of the Planning Supporting Statement (doc no. HTR-ATK-RZ-RE-RP-Z-0012).
- 1.4.2. The Northern Access Route runs through the edge of the Havant Thicket woodland directly north of the approved reservoir site. The woodland is owned and managed by Forestry England for timber production and is also classified as ancient / ancient replanted woodland.
- 1.4.3. A significant part of Havant Thicket woodland is listed as Plantation on Ancient Woodland Sites (PAWS). Portsmouth Water has recently purchased the land accommodating the Northern Access Route from Forestry England.
- 1.4.4. The existing track is within Havant Thicket and Havant Thicket (South-West Corner) Site of Importance for Nature Conservation (SINC) and the Blendworth Fragment section is within Idsworth Common SINC.

1.5. Arboricultural considerations

- 1.5.1. As part of the Planning Application (AIA) trees were recorded as individual specimens and as groups/woodland areas in line with guidance provided by BS5837:2012, as detailed in section 2 of this technical note.
- 1.5.2. As part of the detailed design process Atkins has recorded further individual specimens within groups/woodland areas to inform the design process. The additional trees that were considered included those reaching maturity; high quality specimens (in line with the BS5837:2012 cascade chart) or those 300mm diameter and above where the route passes through the Blendworth Fragment and the trees along the B2149 that were previously recorded within a group/woodland polygon.
- 1.5.3. The Planning Application (AIA) identified an area of c3,000sqm of tree/vegetation loss within the Blendworth Fragment and along the B2149 (no Veteran trees). The approach to classifying veteran trees is detailed in section 2 of the Planning Application (AIA). Also, the loss of 11no. individually recorded trees including 6no. Turkey Oak (considered a benefit) and 2no. Yew trees.
- 1.5.4. South of the Blendworth Fragment the Planning Application (AIA) identified an area of c4,590sqm of tree/vegetation loss and 8no. individually recorded trees, this included 6no. Yew trees; 1no. mature Common Oak and 1no. Turkey Oak (considered a benefit).

1.6. Engineering considerations

- 1.6.1. The approved parameters applied to the Phase 1 Scheme from the junction with the B2149 to the reservoir car park, are a single lane, from chainage 62.7, 3.65m wide carriageway with passing bays (3.5 wide) and 0.5m verges with 0.9m embankment slopes and a 6.45m wide footprint. This has provided the approved 'development envelope' for the detailed design of the Northern Access Route.
- 1.6.2. A 'no-dig' approach is to be adopted for the majority of the Northern Access route. Commencing at chainage 160.000, where it passes through the Blendworth Fragment. The layout is covered on the Northern Access Pavement Layout drawing numbers HTR-ATK-AR-RE-DR-D-0022 and HTR-ATK-AR-RE-DR-D-0023. The specification for the surfacing shall accord with a system called 'Cellweb', provided by Geosynthetics limited. This approach will enable the preservation of the existing ground, meaning the preservation of any underlying tree roots.
- 1.6.3. The alignment through the 'Blendworth Fragment' has been chosen to limit the impacts on high quality trees and to preserve the more prominent Yew and Oak trees as far as possible.

2. Methodology

2.1. General

- 2.1.1. The additional tree survey has been undertaken in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations. The Standard gives recommendations and guidance on the relationship between trees and the design, demolition, and construction process, setting out the principles and procedures to be applied to achieve a harmonious and sustainable relationship between trees and structures.
- 2.1.2. BS5837:2012 does not set explicit parameters for measuring the sensitivity of an arboricultural resource; nor does it assess the magnitude of impact of a proposed development on trees (other than by providing a record of the number of trees that would need to be removed to facilitate the development). Rather, the British Standard provides parameters which enable the arboriculturist to assess the quality of all the trees and other arboricultural features that may be affected by the development.
- 2.1.3. Whilst the BS categories are open to varied interpretation, the guidelines in the cascade chart of BS5837:2012 (see insert A. 1 in Appendix A of ES AIA) provide details on how to determine tree qualities and can be used to inform the design process to retain those trees of higher quality where possible.

2.2. Survey

- 2.2.1. The approach to the survey involved a ground-level walked assessment by a qualified and experienced Arboriculturists.
- 2.2.2. The locations of the trees were plotted by a land surveyor team or by the Arboriculturists using GIS data capture software.
- 2.2.3. The new individually recorded arboricultural features were tagged on site and these numbers included within the survey schedule in Appendix A of this technical note. The new group references expand on previously recorded groups or continue the numbering sequence set within the Planning Application (AIA).

2.3. Data gathering

- 2.3.1. Data was collected in accordance with BS5837:2012, as outlined in Appendix A of the Planning Application (AIA). The purpose of the tree categorisation method applied by the Arboriculturist was to identify the quality and value (in a non-fiscal sense) of the existing tree stock, allowing informed decisions to be made concerning which trees should be removed or retained as part of the development.
- 2.3.2. For a tree to qualify under any given category, it should fall within the scope of that category's definition as detailed in Appendix A of the Planning Application (AIA) (categories U, A, B, C) and, for trees in categories A to C, it should qualify under one or more of the three subcategories (1, 2, 3). Subcategories 1, 2 and 3 are intended to reflect arboricultural and landscape qualities, and cultural values, respectively.
- 2.3.3. Trees were recorded as individual specimens and groups. Where trees were recorded as groups, measurements were taken from the largest tree within the group. The method of measuring diameters is defined in Appendix A of the Planning Application (AIA).

- 2.3.4. This level of survey meets the requirements of BS5837:2012, which states that 'trees growing as groups or woodland should be identified and assessed as such'. The standard defines the term group as 'trees that form cohesive arboricultural features either aerodynamically (e.g. trees that provide companion shelter), visually (e.g. avenues or screens) or culturally including for biodiversity (e.g. parkland or wood pasture)'.
- 2.3.5. Crown spreads of the surveyed trees were given as an average measurement where the tree's crowns were balanced. Where there was a notable difference in crown spread to a cardinal point, these were recorded. The average measurement was taken from the cardinal point relevant to the direction of the scheme. This level of survey is deemed sufficient by the Arboriculturist to establish the extent of the crown spread in the direction of the proposals. All crown spread measurements should be taken from the tree survey schedules (see Appendix A of this technical note).
- 2.3.6. The trees were assessed in line with the Visual Tree Assessment (VTA) method as developed by Mattheck and Breloer (1994). This method is based on the axiom of uniform stress, whereby a tree will grow in response to environmental stimuli to produce a structure that bears forces evenly across its surface. As such an internal defect, such as decay, would initiate a noticeable change in the stem's shape to accommodate the physical change.

2.4. Limitations to survey

- 2.4.1. Where access permitted, trees were identified and inspected from ground level only and were not climbed. No invasive examination techniques (such as increment boring, or internal decay detection) were carried out and as such no assessment of the internal condition of the wood of these trees can be given.
- 2.4.2. The tree survey undertaken is not intended to be a tree risk management survey targeting safety-related issues. However, where specific hazards have been identified these have been recorded and management recommendations provided. These are detailed within the tree survey schedules (see Appendix A of this report).
- 2.4.3. Validity, accuracy, and findings of the tree locations will relate directly to the accuracy of the GIS data capture software being used, available aerial imagery and the recording by the land surveyors. The land surveyors were limited to recording individual trees along the B2149 and through the Blendworth Fragment, and partially beyond the fragment terminating at approximate chainage 290.000. Where through the fragment the land surveyors targeting those trees above 300mm diameter, or those trees previously tagged by the Arboriculturists.
- 2.4.4. Where tree groups have been illustrated as an outline this covers the extents of the tree group. It does not always illustrate individual trees within the groups. Where individual trees were identified they were plotted separately.
- 2.4.5. The report does not comment on possible effects of trees on neighbouring properties, including in relation to subsidence or heave, or with regard to possible hazards presented by trees surveyed.
- 2.4.6. Trees are living organisms subject to changes outside human control. Trees and their environment alter with the seasons, and it is advisable to inspect trees whilst in full leaf and when out of leaf. Following harsh or unexpected weather conditions, or heavy storms it is also prudent to inspect trees. Changes to ground water conditions will affect the root growth of a tree. Such changes are not always the result of human influence and other factors may be involved.

3. Arboricultural impacts

3.1. General

- 3.1.1. This report determines the impact of Phase 1 of the Approved Scheme. It provides details on the recorded trees including their condition and in some cases suitability for retention.
- 3.1.2. The report is supplemented by the TPPs (Appendix B of this report) that illustrate the Scheme, the site boundary, the recorded trees and trees that require removal to facilitate the Phase 1 Scheme.
- 3.1.3. The tree survey schedule within Appendix A of this report covers all the trees recorded as part of Site Wide scheme in line with the BS5837:2012 guidance. A column has been included to indicate the impact of the works. This impact column has not changed for trees outside of the Phase 1 site extents and any removals for these trees are still in line with the Planning Application (AIA). Those trees not within Phase 1.
- 3.1.4. Entries in the impact column include removal (abbreviated as REM and highlighted as red); part remove group (abbreviated as PRG and highlighted as orange); and retained (abbreviated as RET and highlighted as green).

3.2. Root protection areas

- 3.2.1. The Root Protection Area (RPA), as defined in the BS 5837:2012, is the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority. This area should be protected from disturbance "in order to avoid unacceptable damage to the tree as a result of severance or asphyxiation of the root system".
- 3.2.2. The recommended minimum area (m²) to avoid potentially harmful disturbance has been calculated and entered into the tree schedules (see Appendix B of this report) for all trees. The RPA for each individual tree has been illustrated on the TPPs as a circle centred on the tree's stem.
- 3.2.3. This representation of the RPA does not take into account pre-existing site conditions or other factors that can influence or modify the shape and disposition of tree roots. Accordingly, the Arboriculturist may make modifications or judgements on the likely extents of RPAs, where through professional judgement it is deemed likely that the root zones have been restricted in a certain direction because of limiting factors such as topography, drainage or the presence of existing built infrastructure.
- 3.2.4. No RPA modifications have been undertaken as part of this assessment. But it must be noted that the extensive presence of hard infrastructure, including underground utilities means that the morphology and distribution of tree roots for a number of the surveyed trees would be highly varied for trees along the B2149, and concentrated in areas of soft surfacing where roots would proliferate. This means the protection of soft verges beyond the road extents is paramount adjacent to retained trees along the B2149.
- 3.2.5. It must be noted that along the B2149 no obvious direct damage was recorded from tree root activity to the surface (typically identifiable by the lifting of the surface) caused by incremental tree root growth and direct contact. The road has historic engineering disturbance in this location adjacent to the trees, as evident by the core samples taken with extended layers of asphalt recorded. Therefore, the potential for significant roots to extend into the B2149 is reduced at the depths of proposed construction, but not negligible. It is likely that the roots are concentrated in the soft surface areas adjacent to the trees and at greater depths than the road surface and base layers. Ground penetrating radar surveys have been undertaken along the B2149, the results of which were not conclusive in terms of tree root identification.

3.3. B2149 Highway Works Section 106 and highway agreement (Section 278) Impacts

- 3.3.1. The works on the B2149 are subject to a S278 Agreement with the local highway authority (HCC). The extents of the S278 boundary are illustrated on the TPPs as a brown line, this area is outside the Phase 1 Application Boundary. It includes trees along the B2149. The proposed carriageway edge/kerb line is a magenta colour on the TPPs. The works involve the reprofiling of the road, lowering and widening the carriageway and the construction of a ghost island and right-hand turn into the Northern Access Route.
- 3.3.2. The works are covered in detail in further planning submission documentation. The works include different construction approaches (referenced as PT1 to PT4) along the B2149 extents based on the existing levels and sub-grade material. The extent of each option is covered in detail on drawing numbers HTR-ATK-AR-RE-DR-D-0022 and 0023 'B2149 Northern Access Road Pavement Layout'.
- 3.3.3. Typical cross sections are covered on drawing number HTR-ATK-AR-RE-DR-D-0024.
- 3.3.4. The widening of the B2149 to accommodate the junction is to occur on the southern side of the road to avoid impacting the SDNP to the north of the road. This means the tree removals are concentrated on the south side of the road. The removal of trees is required due to the works encroaching into previously undisturbed soft surfaces or due to the trees being within the extents of the visibility splay required for access and egress from the junction.
- 3.3.5. The removals are detailed within Appendix A and illustrated on the Tree Works Plan drawing number HTR-ATK-RZ-RE-DR-L-1141.
- 3.3.6. The tree and vegetation removals along the B2149 (group reference G149) outside the Blendworth Common and area of Ancient Woodland comprises approx. 1270m².
- 3.3.7. The total Individual tree removal along the B2149 around the access point and to the south of the junction is included within table 3-1 below.

Table 3-1 - Proposed tree removal to accommodate S278

Tree Ref.	Species	Age	BS Category	Reason for removal
G148A Tag 140	Turkey Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
G148B Tag 141	Turkey Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
G150B Tag 143	Common Oak	M	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
G150C Tag 144	Common Oak	M	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
G150D Tag 145	Turkey Oak	M	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 126	Common Oak	SM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 127	Common Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 128	Common Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 129	Turkey Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 130	Common Oak	M	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 131	Yew	Y	C	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.

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Tree Ref.	Species	Age	BS Category	Reason for removal
Tag 132	Ash	M	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 133	Common Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 134	Common Oak	SM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 135	Common Oak	SM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 136	Turkey Oak	Y	C	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 137	Common Oak	SM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 138	Common Oak	SM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 139	Common Oak	EM	C	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 146	Common Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 147	Common Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 148	Turkey Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 149	Common Oak	EM	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 150	Common Oak	M	A	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 151	Common Oak	M	B	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.
Tag 152	Common Oak	M	A	Tree in footprint of works and visibility splay. No feasible mitigation measures to retain tree.

- 3.3.8. Individual tree removal is as follows: 2no. BS Category A trees; 21no. BS Category B trees and 3no. BS Category C trees. It must be noted that 6no. of these trees are non-native Turkey oaks. The removal of non-native Turkey oaks is considered a benefit, as these quick growing trees out compete with native specimens and can hybridise with English oaks. The additional 18no. trees to the those individually identified for removal within the Planning Approved AIA fall within group reference W147 and sit within an area hatched for removal as part of the Approved Scheme. These individual trees are all located on the south side of the B2149.
- 3.3.9. The trees to the north of the road (within SDNP) are to be retained. The trees along this boundary have been recorded individually and have a group reference G199. The proposals are being limited to the existing carriageway and mitigation measures are detailed in section 4 to facilitate their retention.
- 3.3.10. The trees are in close proximity to the road; however, the morphology of the roots is likely to be highly modified due to the presence of the existing hard surfaces and the historic gas main installation believed to be in this location. Further measures such as arboricultural supervision and hand operations shall be specified to preserve these trees, along with the involvement of the Local Authority Tree Officer.

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3.4. Phase 1 Scheme impacts

- 3.4.1. The Phase 1 Scheme measures 1,407 m in length from end to end. It will be predominantly single lane single carriageway with passing bays to ensure that the footprint of the works is kept to a minimum. This will minimise the loss of trees and Ancient Woodland.
- 3.4.2. A combination of both “dig” and “no dig” approaches has been selected for the Phase 1 proposals, to ensure tree roots and trees are protected. The route through the Blendworth Fragment will be constructed using bituminous surfacing from Chainage 0 to chainage 160. At chainage 160 the pavement transitions to a Cellweb and type 3 sub-base construction. The typical cross sections for the Cellweb approach are covered in drawing no. HTR-ATK-AR-RE-DR-D-0072. The single carriageway starts to taper down to a single lane single carriageway at chainage 62.7m.
- 3.4.3. The Northern Access Route south of the Blendworth Fragment will be constructed using Cellweb Tree Root Protection (TRP). Cellweb is a no-dig solution that ensures that the loads placed upon it are laterally dissipated rather than transferred to the soil and roots below. The walls of the cells are perforated and when combined with the infill of clean angular stone, enable free movement of water and oxygen, ensuring that nutrient supplies to the tree roots are maintained. This method of construction has been chosen to minimise impacts on the adjacent ancient woodland habitat.
- 3.4.4. The following table summarises the dimensions of the types of road construction:

Single Lane Single Carriageway

Pavement or feature type	Dimensions
No dig option: Cellweb and type 3 sub-base	4.65m overall width with 3.65m carriageway and 0.5m non-trafficked verges.
Dig option: Bituminous pavement	3.65m between kerbs
Passing bay	Typical dimensions are 3.5m wide 20m in length with 10m tapers at either end.

- 3.4.5. The following table summarises the location and types of pavement used for the Northern Access Junction and the Northern Access Route:

Start Chainage	Finish Chainage	Pavement Type
0	160	Bituminous “dig” type pavement construction. Single carriageway ends at chainage 62.7 and tapers down to single lane single carriageway
160	1210	Cellweb and Type 3 Sub-base “no-dig” pavement construction
1210	1407	Bituminous “dig” type pavement construction.

- 3.4.6. The reason for the selection of a “dig” pavement at the above locations is driven by the steep gradient present at these locations which are unsuitable for a “no-dig” construction. A short section at the entrance to the visitor centre car utilises a “dig” pavement to provide a continuity link between the two bituminous section adjacent.
- 3.4.7. The Cellweb and type 3 sub-base “no-dig” pavement construction is made up of the following layers, starting from ground level and working up:

Layer	Thickness
Treetex – protective layer	nominal
Cellweb with 4-20mm gravel	200mm
Overfill of 4-20mm gravel	25mm
Treetex- protective layer	nominal
Sub-base type 3	150mm
Overall thickness of “no dig” construction	375mm

- 3.4.8. The dig construction is representative of traditional bituminous pavement construction. The thickness of the pavement reflects the traffic load it is expected to take during its life and the strength of the ground under the road. It is made up of the following layers:

Layer	Thickness
Surface Course	50mm
Binder Course	60mm
Base	90mm
Sub-base	420mm
Overall Thickness of “Dig” construction	620mm

- 3.4.9. The removals are detailed within Appendix A and illustrated on the Tree Works Plans drawing numbers HTR-ATK-RZ-RE-DR-L-1143 and HTR-ATK-RZ-RE-DR-L-1144
- 3.4.10. Following various design iterations, the vegetation removal through the Blendworth Fragment (group reference W147) is limited to approx. 1730m², with individually recorded tree removal through here comprising 5no. BS Category B trees and 2no. BS Category C trees. These are detailed within Table 4-4 below and illustrated in the TPPs (sheets 1 & 2)

Table 3-2 - Proposed Category B and C tree removal to accommodate the Northern Access Junction and Route within the Blendworth Fragment [all within W147]

Tree Ref.	Species	Age	BS Category	Reason for removal
Tag 159	Silver birch	Early mature	C	Tree within footprint of bituminous road layout. Not feasible to retain.
Tag 161	Common Oak	Semi-mature	B	Over 45% of Route Protection Area (RPA) within access road footprint. Bituminous surfacing adjacent to tree. Therefore, approx. 400mm excavation.
T135 (Tag 178)	Silver birch	Mature	B	Over 50% of RPA within access road footprint. Tree stem within footprint of cell web. Not feasible to retain.
T130 (Tag179)	Yew	Early mature	B	Tree stem within footprint of cell web. Not feasible to retain.
Tag 183	Silver birch	Mature	B	Over 50% of RPA within access road footprint. Tree stem within footprint of cell web. Not feasible to retain.
T137 (Tag175)	Yew	Early mature	C	Standing dead tree. No live crown present. Extensive desiccated white rot present. Tree stem within footprint of cell web. Not feasible to retain.
T046 (Tag 0143)	Yew	Mature	B	Small to large diameter dead wood in lower crown. Some branches resting on ground. Water pockets in main stem. Balanced crown. Desiccated white rot present. Some crown thinning. Tree stem within footprint of cell web. Not feasible to retain.

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- 3.4.11. The additional individual tree loss covers newly recorded trees that previously fell within the W147 polygon and hatched through this location for removal within the Planning Application (AIA). The use of the Cellweb approach shall enable the retention of more trees than a traditional dig approach.
- 3.4.12. South of the Blendworth Fragment, the removal of individually recorded trees along the Northern Access Route has been reduced compared with the outline scheme. Only 1no. individually recorded tree has now been identified for removal (compared to 8 previously identified in the Approved Scheme AIA, which included 6no. yew trees and 1no. mature Common oak). The tree to be removed is a low-quality (BS Category C) specimen Turkey Oak (Tag 195), which is considered a benefit for removal.
- 3.4.13. Areas of vegetation are to be removed to facilitate the passing bays construction and new drainage; these have been placed in locations to limit the impact on the individually recorded trees, notably the yew trees and mature oaks. The areas of vegetation removal form part of larger recorded groups within the Planning Application AIA for the outline scheme, namely W141, G116 and G198, and one newly recorded group reference G200 (400m²) which is largely young successional birch scrub.
- 3.4.14. The areas for loss within W141 (new refs W141A, W141B, W141C, W141C, W141D, W141E & W141F), G198, G200 and G116 equates to a total area of 2,963m² (compared with c4,590m² presented in the Planning Application AIA for the entire route). These areas are primarily young self-sown birch, goat willow and scrub, meaning they are of low arboricultural quality. The detailed design of the layout has limited tree removals along the Northern Access Route (south of Blendworth Fragment), in addition the no-dig construction approach means the route can be installed without excavation and severance of tree roots of adjacent trees. The use of a permeable surfacing will also permit gaseous exchange, meaning any tree roots present shall not be asphyxiated. This is a recognised approach for the construction of footpaths or access tracks within the RPAs of retained trees.
- 3.4.15. The drainage proposals have been positioned taking into account the retention of individually recorded trees. The use of existing drainage infrastructure has also been considered and utilised where possible. This is the case to the west of the access route at its southern extents. The use of the existing drainage channel in this location will mean the retention of the individually recorded trees in this location. To the east of the access road in this location there is a shallow bypass drain to be installed adjacent to trees W141AA & W141BB. These trees are to be retained and the works locally adapted to ensure their retention. The works will need to be undertaken under arboricultural supervision and limited to the use of small plant with the positioning of the ditch locally adapted where possible to position it as far as possible from the stems of the trees.
- 3.4.16. Some trees along the route will require crown lifting with specific trees and group extents being identified for lifting to approx. 5.4m for the heavy plant clearance. These works will be carried out in accordance with BS3998:2010 Tree work – recommendations.

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4. Arboricultural Method Statement

4.1. General

- 4.1.1. The requirements for tree protection measures shall be included within Work Package Plans (WPP) and Task Briefing Sheets (TBS) or similar forms of documentation to permit works in these locations. These shall reference this technical note and accompanying drawings. In the approval of WPPs and TBSs the reviewer shall make sure any protection of trees has been considered within the area and seek confirmation with the Arboriculturist supervising the works.

4.2. General Arboricultural supervision

- 4.2.1. The trees for removal for the B2149 Highways Works and the Phase 1 works are illustrated on the tree works plans. The individually recorded trees are also tagged to enable clear identification of which trees require felling. These fall directly within the works footprint or the visibility splays from the new junction.
- 4.2.2. A walkover pre-commencement site meeting was held with Tilhill (tree works contractor) where tree removals were discussed along the B2149 and the Northern Access. Site meeting was held on 22nd February 2022, and a further meeting on 25th March 2022 to markup trees for removal within the Blendworth Fragment.
- 4.2.3. Tree and vegetation clearance permitted by the hybrid consent has commenced within the footprint of the approved scheme only at the northern end of Phase 1 and along the B2149, in line with the seasonal requirements and the conditions of the European Protected Species Licences (see Ecological Mitigation, Compensation and Enhancement Measures Report ref HTR-ATK-XX-ZZ-RP-Z-005). Removal of remaining stumps will be undertaken in accordance with timescales set out in the licence schedule. This was to enable works to be started on the B2149 and connected access areas this summer (following approval of the Section 278 Highways Agreement).
- 4.2.4. A pre-commencement site meeting shall be undertaken prior to the commencement of the construction operations to make sure all members of staff working or visiting the area of site being worked upon are aware of the individual responsibilities regarding trees and the existing tree protection measures in place or required to continue construction.
- 4.2.5. This pre-commencement site meeting shall be attended by the construction manager, works agent or suitable delegate and, if required, representatives from the design team. The meetings shall raise awareness with the relevant parties of the trees within the working extents and to confirm the requirements for tree related information to be included within induction material and daily briefings to members of staff.
- 4.2.6. It shall also confirm the following:
- The location of tree protective barriers.
 - The location of ground protection.
 - Where/when arboricultural supervision will be required.
- 4.2.7. The supervisory role shall be performed an appointed Arboriculturist. The frequency of these visits shall align but not be limited to the key milestones identified in Table 4-1 below and shall be undertaken as required during the progression of the Phase 1 scheme and S278 Highway Works to enable an auditable succession of monitoring events for a review of the protection measures implemented for the trees.

Table 4-1 – Programme of site supervision

Programme	Arboriculturist or delegate	Supervision
Pre-commencement site meeting	Arboriculturist or suitably qualified delegate.	a) Confirm approval of TBS and WPP; b) Confirm location and specification of tree protective barriers; c) Confirm requirements for tree protection information to be included in induction details for the site; d) Confirm requirements for reporting any tree related incidents; e) Confirm ongoing arboricultural monitoring and contact details.
Setting out of protective barriers	Arboriculturist or suitably qualified delegate.	a) Review location and specification of tree protective barriers; b) Confirm any additional tree protection measure requirements; c) Submit site monitoring pro forma to Client / Project Manager; d) Invite the Local Authority Tree Officer to visit site.
Construction operations including any excavations; laying of cellweb or other construction activities	Arboriculturist or suitably qualified delegate.	a) Review location and specification of tree protective barriers; b) Assess condition of retained trees, specifically for any construction related damage; c) Confirm any requirements additional tree protection measure requirements; d) Invite the Local Authority Tree Officer to visit site; e) Submit site monitoring pro forma to Client / Project Manager.
Post-construction	Arboriculturist or suitably qualified delegate.	a) Inspect all retained trees to make sure they have not been damaged during the construction operations; b) To instruct any remedial works that may be required should a tree defect be identified as a result of the construction operations; c) Submit site monitoring pro forma to Client / Project Manager; d) Invite the Local Authority Tree Officer to visit site.

- 4.2.8. On completion of each site visit the proforma in Appendix C of this report shall be completed by the Arboriculturist and submitted to the Client/Project Manager. The completed proformas will be supplied to the Local Authority Tree Officer where requested.
- 4.2.9. Where emergency matters arise regarding trees or any variations or incidents related to trees, e.g. unexpected access required within exclusion zones or damage to retained trees, then the Arboriculturist is to co-ordinate a visit to the site in person and the pro forma in Appendix C of this report shall be completed by the Arboriculturist and submitted to the Client/Project Manager. This shall then be supplied to the Local Authority Tree Officer where requested.

4.3. Construction Exclusion Zone (CEZ)

- 4.3.1. The CEZs can be defined as all the soft surfaces within the RPAs of retained trees outside of the works areas and the areas behind the tree protection fencing or site hoarding.
- 4.3.2. Site operations not permitted in the CEZs without consultation with an arboriculturist include storage of plant, equipment, or materials, vehicular or plant access, washing down of vehicles or machinery, handling, discharge, or spillage of any substances, including cement washings, and actions likely to cause localised waterlogging. No mechanical digging, scraping or excavation shall be permitted in the CEZs, nor earthworks or changes in the finished ground levels other than those agreed by an arboriculturist.

4.4. Tree protective barriers

- 4.4.1. The locations of temporary protective fencing need to be agreed on site at the pre-commencement site meeting prior to construction operations. The provisional locations are illustrated on the TPPs. The locations being provision because where site hoarding is to be installed this shall also double up as protective barriers for retained trees. The location of any site hoarding is not currently known. The TPPs are drawing numbers:
- HTR-ATK-RZ-RE-DR-L-1145 – Tree Protection Plan
 - HTR-ATK-RZ-RE-DR-L-1146 – Tree Protection Plan
 - HTR-ATK-RZ-RE-DR-L-1147 – Tree Protection Plan
- 4.4.2. The protective barriers shall comprise 2m tall, welded mesh panels on rubber or concrete feet where feasible to install without damaging retained trees, i.e. where the height of 2m would require extensive branch removal from retained trees. The panels are to be joined together using a minimum of two anti-tamper couplers, installed so they can only be removed from inside the fence. The distance between the fence couplers is to be at least 1m and is to be uniform throughout the fence; the panels are to be supported by inner side stabiliser struts attached to a base plate secured on a block tray. See Figure 4-1 below.

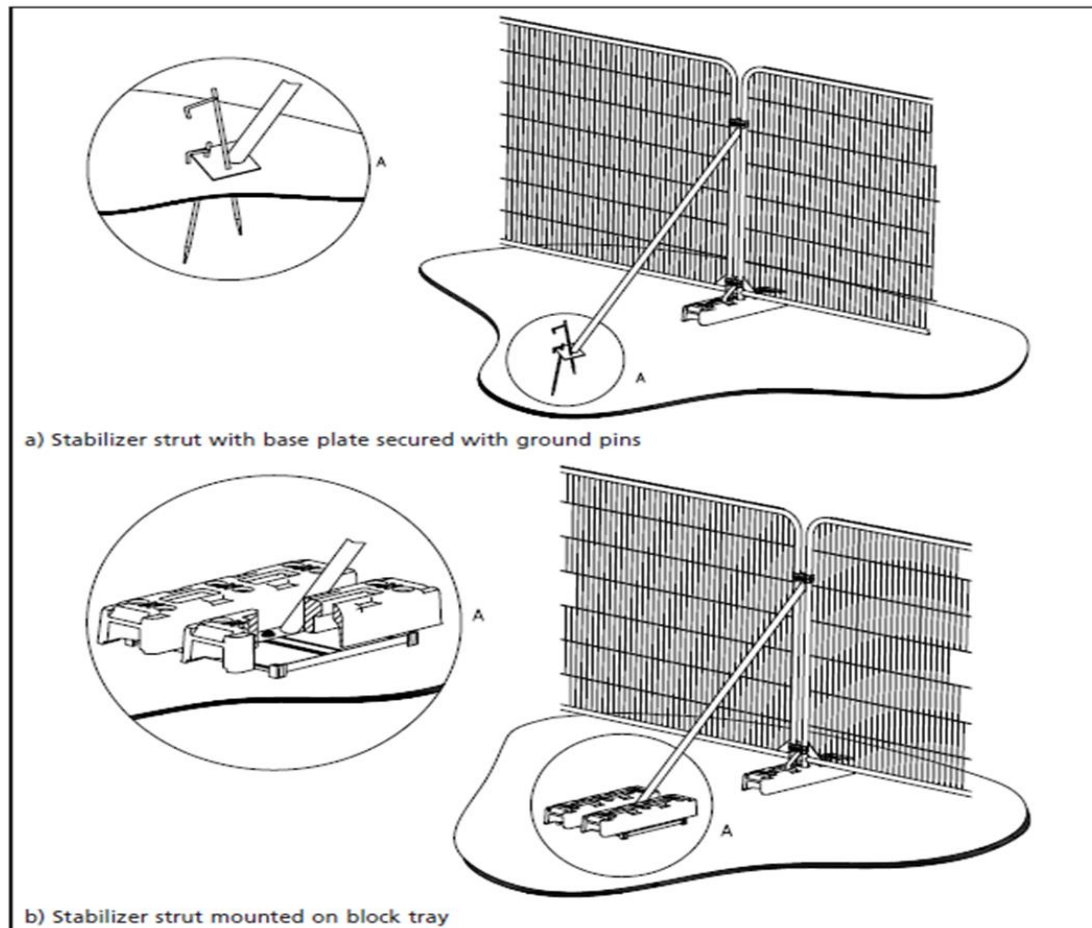


Figure 4-1 – Tree protection fencing

- 4.4.3. Where a 2m high weld mesh panel cannot be installed, then a chapter 8 safety barrier is to be installed or another similar barrier system in agreement with the supervising Arboriculturist.
- 4.4.4. The protected areas shall be seen as sacrosanct and once installed shall not be moved or altered without recommendation by an arboriculturist. The specification for the fencing could be adapted to a pedestrian type barrier that is moved as the works progress.

4.5. Ground protection matting

- 4.5.1. The location of any ground protection matting shall be agreed prior to the commencement of construction in coordination with a contractor.
- 4.5.2. Where ground protection matting is specified to protect tree roots and to minimise ground compaction within RPAs, then an example of a proprietary matting product is Ground-Guards (<http://www.ground-guards.co.uk/solutions/tree-root-protection/>). A double layer of Ground-Guards panels with a 150mm layer of wood chips sandwiched in-between will create a suitably cushioned base to facilitate access within RPAs where absolutely necessary.

4.6. Ground penetrating radar (GPR)

- 4.6.1. A GPR survey has been undertaken along part of the B2149. The results of the survey shall be assessed by the Arboriculturist to further inform specific mitigation measures for retained trees along the north side of B2149. Where the GPR survey has identified tree roots, then these areas shall be excavated in accordance with section 4.7.

4.7. Excavations within B2149 adjacent to retained trees

- 4.7.1. Where the B2149 is to be excavated adjacent to trees then these works are to be supervised by an Arboriculturist. The methods of excavation are likely to be a combination of planing machinery, excavators, hand excavations and vacuum excavations. All equipment involved in the removal of any hard surfacing is to be kept outside of the retained soft surface verge adjacent to the trees, and within the existing hard surface footprint.
- 4.7.2. The sections of road to receive works are to be walked with the supervising Arboriculturist to confirm the approach adjacent to each tree. Any GPR results are also to be used during this walkthrough. Where planing machinery is to be used and existing sub-base material retained then the potential to impact roots from the adjacent trees is significantly reduced and will not require supervision by an Arboriculturist. However, where excavators are required to remove the existing hard surfacing adjacent to trees then these works shall be supervised to by an Arboriculturist throughout the excavation process. If tree roots are found, the excavators are to cease operations and the roots revealed using hand tools or a vacuum excavator.
- 4.7.3. If the roots are sufficiently pliable then these are to be repositioned or only pruned as a last resort on the advice of the Arboriculturist. If large diameter tree roots are encountered, then options to retain the roots through packing around with sharp sand shall be explored in consultation with the supervising Arboriculturist. If significant roots are encountered and require severance, then the Arboriculturist is to present these findings to the Client/Project Manager to determine a solution for presentation to the Local Authority Tree Officer.

4.8. Excavations for the bituminous pavement construction within Blendworth Fragment (same approach for chainage 1210-1407)

- 4.8.1. The bituminous pavement shall require approximately 600mm excavations to install. These works are to be supervised by an Arboriculturist. The methods of excavation are likely to be a combination of excavators, vacuum excavator, and potential hand excavation.
- 4.8.2. All equipment involved in the excavation is to be limited to the construction footprint. With the excavators working into the site from the B2149 and positioning on freshly laid sub-base material, or on appropriate temporary ground protection matting.

- 4.8.3. During the excavation process, there will be existing rooting material within the footprint of the route from the felled trees in this location. However, where adjacent to trees identified for retention then the Arboriculturist shall cease works if any roots are revealed which are reasonably perceived to be emanating from the adjacent tree to be retained. The Arboriculturist shall then determine whether hand excavations or the use of vacuum excavator shall be used to continue the excavation adjacent to the tree.
- 4.8.4. If roots are located, then these are to be retained within the construction profile by packing around with sharp-sand. If roots cannot be retained, then these would only be permitted for severance on the advice of an Arboriculturist and as a last resort where alternative design solutions to retain the roots have not proven possible.

4.9. No-dig construction

- 4.9.1. The use of a no-dig construction approach within the RPAs of trees. This would limit the impact on the underlying tree roots.
- 4.9.2. Where no-dig construction is specified, then this would broadly adhere to the following:
 - a) The area to receive the no-dig approach is to be clearly marked out on site and agreed with the Arboriculturist.
 - b) The existing turf layer or vegetative layer within the works area is to be removed using a combination of small plant or hand tools under Arboricultural supervision.
 - c) The Cellweb product is then to be laid as per the manufacturer's guidelines, and the cells are to be filled with clean angular stone of sufficient type to maintain porosity.
 - d) Contractors should refer to The Arboricultural Association's *Guidance Note 12: The Use of Cellular Confinement Systems near Trees*, published in September 2020.

4.10. Root pruning

- 4.10.1. Where tree roots have to, as a last resort, be severed, the pruning points would need to be agreed with the supervising Arboriculturist and pruning undertaken using a sharp pair of secateurs or a hand saw, or if pliable moved out of the construction profile and re-covered within topsoil or packed around with sharp-sand.

4.11. In situ concrete

- 4.11.1. It should be noted that due to the highly alkaline and toxic leachate produced during the curing of wet concrete, concrete should not be poured within trees' RPAs unless an impermeable liner is installed.

5. Tree works

5.1. General

- 5.1.1. All remaining tree works are to be undertaken in line with current recommendations in accordance with BS3998:2010 Tree Work – Recommendations and comply with the current Arboriculture and Forestry Advisory Group (AFAG) or applicable Forestry Industry Safety Accord (FISA) advice published by the Health and Safety Executive (HSE) or FISA.
- 5.1.2. Tree works are to be planned to ensure protection of people, property, and wildlife. If the works are to be undertaken during the bird nesting season, then advice is to be sought from an Ecologist prior to undertaking tree works. Bat potential has been included within the survey schedule for known trees, however, this is not an exhaustive list and agreement from the supervising bat licence practitioner is required before commencing tree works.
- 5.1.3. The remaining trees to be removed or worked upon for facilitation pruning shall be clearly marked by the supervising arboriculturist prior to any tree works commencing on site. These works are to be agreed with the supervising arboriculturist.
- 5.1.4. The tree works contractor is to be made aware of the site access limitations. The contractor will have to submit a risk assessment and method statement for review by the Principal Contractor or Supervisor prior to commencing works on site.

5.2. Tree works schedule

- 5.2.1. All trees for removal are detailed within the survey schedule (this includes trees which have already been removed in line with the hybrid consent and remaining trees to be removed). The method of removal shall be informed by the site constraints.
- 5.2.2. The requirements for crown lifting are also listed within the survey schedule. Further facilitation pruning maybe instructed as required by the Arboriculturist to ensure the branches of retained trees are not struck by plant or vehicles.

Appendix A. Tree survey schedule

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T001	Oak	17	610	6	8	8	8.0	2	1.5	M	Good	On west bank of waterlogged ditch; hollow 0-2000mm, with cavity opening to north-west, long-established columns of reaction wood growth	No works required at time of survey	20+	B2	NO	YES	HIGH	RET		7.3
1	T002	Common Oak	17	480	9	2	7	9.5	4-W	3	EM	Good	Low crown height to west over access road. Crown suppression to east. Shallow ditch adjacent to tree. Co-dominant stems from approximately 7m. Union appears sound	No works presently required	20+	B2	NO	YES		RET		5.8
1	T003	Common Oak	17	730	8	10	9	8.0	4-NE	4	M	Good	Shallow ditch between tree and verge. Co-dominant stems from approximately 3m. Union appears sound. Occasional small to moderate diameter dead wood in lower and middle crown. Dense ivy encroachment in crown.	No works presently required	40+	A2	YES	YES	MOD	RET		8.8
1	T004	Oak	19	800	9	12	11	10.0	1-S	2	M	Good	On west bank of dry wood boundary ditch; occasional deadwood stubs and branches in large crown, which extends over track to east; light ivy encroachment.	Remove larger deadwood if adjacent to proposed works	40+	A2	YES	YES	LOW	RET		9.6
1	T005	Common Beech	18	900	8	10.5	8	8.0	4-E	4	M	Good	Growing approximately 4m from existing hard surface access road. Basal cavity to north west, revealing developing heartwood decay and desiccated white rot visible. Occasional small to moderate diameter dead wood in lower crown. Decay cavities at old branch wounds.	No works presently required	40+	A2	YES	YES	LOW	RET		10.8
1	G005-S	Oak	15	500	7	11	4	18.0	1-SW	2.5	M	Good to fair	Pair of trees to west of track, southern tree on west bank of dry wood boundary ditch, northern tree 4m from track edge; slender branches of crown extending over track to east; southern tree growth to south suppressed by larger neighbour; slightly sparse crowns containing sub-75mm diameter deadwood branches, tears, stubs, hanging branches.	Remove larger deadwood if adjacent to proposed works	20+	B2	YES	YES	LOW	RET		6.0
1	G005-N	Oak	15	500	8	7	6	9.0	2	2.5	M	Good to fair	See above	See above	20+	B2	YES	YES		RET		6.0
1	T006	Common Oak	16	350;500	5	6.5	5	6.0	5-E	4	M	Fair	Co-dominant stems from ground level. Tree growing approximately 5m from existing hard surface access road. Dense ivy encroachment on stems and into crown. Occasional moderate diameter dead wood in lower and middle crown. Tree growing within shallow drainage ditch.	No works presently required	40+	B2	NO	YES	MOD	RET		10.8

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Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T007	Common Oak	20	990	10	12	10	10.0	6-E	4	M	Fair to good	Tree growing on boundary fence on raised bank. Historic drainage ditch between tree and verge. Broad open crown. Occasional small to moderate diameter dead wood in lower and middle crown. Dense ivy encroachment on main stem and into crown. No indication of stem hollowing. Co-dominant stems from approximately 5m. Hazard beam to south east at approximately 12m. Branch within small distance of potential works area.	Reduction of hazard beam if its within works area.	40+	A2	NO	YES	LOW	RET		11.9
1	G008-A	Oak	16	430 + 300	8	8	8	8.0	1.5	2	M	Good	Medium-sized oak trees, frequently multi-stemmed; ivy encroachment into upper crown of some trees (-A and -B); trees -C and -D to east of wood boundary ditch; infrequent small diameter deadwood.	No works required at time of survey	20+	B2	NO	YES	LOW	RET		6.4
1	G008-B	Common Oak	17	480	9	12	12	8.0	3	3	EM	Good	Part of group of sporadic oak	No works required at time of survey	20+	B2	NO	YES	LOW	RET		5.8
1	G008-C	Common Oak	18	560	8	8	8	8.0	3	3	EM	Good	Part of group of sporadic oak	No works required at time of survey	20+	B2	YES	YES		RET		6.7
1	G008-D	Common Oak	18	560	8	8	8	8.0	3	3	EM	Good	Part of group of sporadic oak	No works required at time of survey	20+	B2	YES	YES		RET		6.7
1	G009-A	Turkey Oak	18	560	8	8	8	8.0	3	2	EM	Good	Trees growing beyond shallow ditch to east of track edge; Turkey oak crowns typically upright, slender-limbed and slightly asymmetrical	Remove hanging branch if adjacent to proposed works	20+	B2	NO	YES		RET		6.7
1	G009-B	Turkey Oak	18	560	8	8	8	8.0	3	2	EM	Good			20+	B2	NO	YES	LOW	RET		6.7
1	G009-C	Turkey Oak	20	540	10	10	10	10.0	4	3	EM	Good			20+	B2	NO	YES		RET		6.5
1	G009-D	Turkey Oak	20	630	10	9	11	12.0	5-SW	5	EM	Fair	Hollow at base to at least 1500mm, cavity opening to south; adaptive growth - pronounced basal flare; large crown slightly sparse, history of branch tears.	Remove larger deadwood if adjacent to proposed works	20+	B2	NO	YES		RET		7.6
1	G009-E	Turkey Oak	200	600	10	11	12	12.0	7-W	7	EM	Good			20+	B2	NO	YES		RET		7.2
1	G009-F	Common Oak											changed tree reference to T145 (Tag 7)									
1	G009-G (Tag 3)	Common Oak	21	560	11	9	10	9.0	2	2	EM-M	Good	Upright form.		40+	B2	YES	YES		RET		6.7
1	T010	Common Oak	16	650;500	5	9.5	7	7.0	4-E	4	M	Good	Growing within shallow drainage ditch. Co-dominant stems from approximately 1m. Union appears sound. Large diameter dead wood in lower crown to north. Occasional small to moderate diameter dead wood in middle crown.	No works presently required	40+	A2	YES	YES	LOW	RET		11.9
1	T011	Common Oak	16	660	6	6	6	6.0	4-E	6	M	Fair	Growing on bank of shallow drainage ditch. Moderate diameter dead wood in lower and middle crown. Light ivy encroachment on main stem and into crown. Desiccated white rot visible on old stem stub at ground level to north.	No works presently required	40+	B2	NO	YES	LOW	RET		7.9

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Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T012 (Tag 13)	Yew	7	700	5	5	4	4.0	3-E	3	M	Fair	Growing approximately 3m from existing hard surface access road. Loss of vitality visible in crown. Dieback and thinning present. Historic crown lifting to east.	No works presently required	40+	B3	YES	YES	MOD	RET		8.4
1	T013	Beech	19	630	14	14	12	3.0	4-E	2.5	M	Good to fair	6m to west of track, slight lean towards and crown growing over track; extensive basal decay and hollowness, with cavity opening to north-east; occasional deadwood branches in lower crown	Crown reduction recommended due to basal decay, and proximity to, and lean towards, track	20+	B2	NO	YES		RET		7.6
1	T014	Oak	21	640	11	14	6	9.0	2-NE	12	M	Fair	On bank to west of track, 2.5m to north-west of T013; high-crowned, occasional branch tears; low limb to north-east mostly dead	No works required at time of survey	20+	B2	YES	YES	LOW	RET		7.7
1	G015A	Common Oak	16	700	5	9	9	8.0	4-E	4	M	Fair to good	Growing on bank of drainage ditch. Intermittent trees within G015 of similar size and age. Co-dominant stems from approximately 1.5m, union appears sound. Occasional small to moderate diameter dead wood in lower and middle crown.	No works presently required	40+	B2	NO	YES	MOD	RET		8.4
1	G015B	Common Oak	16	500	5	9	4	3.0	3-E	3	EM	Fair	Habitat hole in old branch wound to south on main stem at approximately 2m. Crown suppression to west. Growing on curve to east.	No works presently required	40+	B2	YES	YES		RET		6.0
1	G015C	Common Oak	17	500	6	6	4	6.0	4-E	4		Good	Growing on curve to north. Light ivy encroachment on main stem.	No works presently required	40+	B2	NO	YES		RET		6.0
1	G015D	Common Oak	17	400;700	6	6	7	6.0	3-SE	4	M	Good	Co-dominant stems from ground level. Basal wound on north stem, desiccated white rot visible. Historic wound. Reaction wood on periphery. Occasional small to moderate diameter dead wood in lower and middle crown. Like all G015 on bank or top of drainage ditch	No works presently required	40+	B2	NO	YES		RET		7.2
1	G015E	Common Oak	16	400;400	3	3	6	5.0	2-S	2	EM	Fair to good	Co-dominant stems from base. Crown suppressed to north.	No works presently required	20+	B2	NO	YES		RET		8.4
1	G015F	Common Oak	16	300;300; 300;300	6	4	4	4.0	3-E	3	M	Good	Old coppice. Multi stems from approximately 500mm. Occasional moderate diameter dead wood in central crown.	No works presently required	20+	B2	NO	YES		RET		8.4
1	G015G	Common Oak	18	650	8	10	8	8.0	3-E	3	EM	Good	Occasional small diameter dead wood in lower crown. Broad crown. Growing on face of bank	No works presently required	20+	B2	YES	YES		RET		7.8

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Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	G015H	Common Oak	17	400;400;400	6	6	5	6.0	2-SE	1	EM	Good	Old coppice. Occasional small to moderate diameter dead wood in lower and middle crown.	No works presently required	20+	B2	NO	YES		RET		8.3
1	G015I	Common Oak	16	460;300;360;120	5	7	5	5.0	2-E	4	EM	Fair	Old coppice stool. Multi stem from ground level. Occasional moderate diameter dead wood in lower crown	No works presently required	20+	B2	NO	YES		RET		8.0
1	G015J	Common Oak	16	500;360	6	6	6	5.0	4-S	2	EM	Good	Growing approximately 1m below the level of the existing access road. Co-dominant stems from ground level.	No works presently required	20+	B2	YES	YES		RET		7.4
1	G016A	Common Oak	8	600	5	5	5	5.0	N/A	1	OM	Poor	Extensive dieback and dead wood recorded. Limited live crowns. Desiccated white rot visible.	Retain as dead wood habitat	10+	C3	NO	YES	LOW	RET		7.2
1	G016B	Common Oak	8	600	5	5	5	5.0	N/A	1	OM	Poor	Extensive dieback and dead wood recorded. Limited live crowns. Desiccated white rot visible.	Retain as dead wood habitat	10+	C3	NO	YES	LOW	RET		7.2
1	T017	Common Oak	17	500;600;450;600	9	9	9	9.0	4-E	5	M	Fair	Old coppice, 4no. Stems from base. Tree growing on top of drainage ditch. Developing heartwood decay on east stem. Large diameter dead wood on west stem. Small to moderate diameter dead wood in lower and middle crown.	No works presently required	40+	A2	NO	YES		RET		13.0
1	G018A	Yew	7	500;300	4	3	3	2.0	2.5-E	2	OM	Poor	Extensive crown thinning. Dead wood and dieback throughout crown. Historic crown lifting visible.	Retain as dead wood habitat	10+	C3	NO	YES	LOW	RET		7.0
1	G018B	Yew	7	600	2	2	5	4.0	1-S	1	OM	Poor	Extensive crown thinning visible. Small to moderate diameter dead wood throughout crown. Fused stems.	Retain as dead wood habitat	10+	C3	NO	YES		RET		7.2
1	T019 (Tag 12)	Common Oak	16	600	3	10	7	7.0	3-E	3	M	Fair	Crown suppression to north. Occasional small to moderate diameter dead wood in lower and middle crown. Growing on bank of drainage ditch.	No works presently required	40+	B1	YES	YES		RET		7.2
1	T020	Common Beech	18	760	7	9	7	5.0	4-E	3	M	Good	Multi stems from approximately 3m, slight compression forks. No significant at present.	No works presently required	40+	A2	YES	YES		RET		9.1

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T021 (Tag 8)	Yew	15	500 + 300	7	7	7	7.0	1	1.5	M	Fair to poor	2m beyond dry ditch to east of track; extensive crown dieback, especially eastern side of crown	Remove deadwood if adjacent to proposed works	20+	C2	YES	YES	MOD	RET		7.1
1	T022	Yew	15	730 + 500	10	8	6	8.0	1	1	M	Good	Twin-stemmed, possibly two trees, northern stem twisting to run horizontal, curving east towards track; branches cut back at track side	No works required at time of survey	40+	B2	YES	YES	LOW	RET		10.7
1	T023 (Tag 4)	Oak	21	450 + 450 + 300 + 250 + 250	9	12	11	9.0	1	3	M	Good	On west bank of dry ditch; multi-stemmed from ground level; sub-75mm diameter deadwood branches	Remove larger deadwood if adjacent to proposed works	40+	B2	NO	YES		RET		9.5
1	G024-A	Yew	15	950 at 400mm	7.5	7.5	7.5	7.5	1	0.5	M	Fair	Yew trees above track on east side; typically multiple stems rising upright from bole, with frequent rubbing and crossing of stems; all displaying dieback at crown extents	No works required at time of survey	20+	B2	YES	YES	MOD	RET		11.4
1	G024-B	Yew	15	600 + 600	10	5	10	10.0	0	0	M	Fair	Sprawling limbs resting on ground	No works required at time of survey	20+	B2	NO	YES		RET		10.2
1	G024-C	Yew	17	1000	18	10	10	7.0	0	0	M-OM	Fair	Diameter measured below crown break; extensive dieback, branch tears, collapsed limbs; habitat features	No works required at time of survey	40+	B3	YES	YES		RET		12.0
1	G024-D	Yew	17	780	11	11	11	11.0	0.5	0.5	M	Good	Branches near ground level cut back to near stem	No works required at time of survey	40+	B2	YES	YES	MOD	RET		9.4
1	G024-E	Yew	16	850	7	5	7	7.0	0.5	0.5	M	Fair	Light dieback only; lower branches cut back to near stem	No works required at time of survey	40+	B2	NO	YES		RET		10.2

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	G024-F (Tag 193)	Yew	14	660 at 500mm	9	9	9	9.0	1	0.5	M	Good	Lower branches cut back to near stem; minimal dieback	No works required at time of survey	40+	B2	YES	YES		RET		7.9
1	G024-G (Tag 192)	Yew	17	830 + 620 + 400	10	7	8	18.0	1	1	M	Good	Smaller stem leaning to east; lower branches cut back to near stem; minimal dieback	No works required at time of survey	40+	A2	NO	YES		RET		13.3
1	G024-H(Tag 190)	Yew	16	560	7	7	7	7.0	1.5	1	EM-M	Good	Comparatively standard form, no dieback	No works required at time of survey	20+	B2	YES	YES	LOW	RET		6.7
1	G024-I												Tree no longer a removal.									
1	G024-J (Tag 184)	Yew	11	440 + 400	7	7	7	7.0	1	0.5	M	Fair	Non-professional removal of lower branches; widespread light dieback	No works required at time of survey	20+	B2	YES	YES	MOD	RET		7.2
1	T025	Yew	7.5	740	6	6	6	6.0	1.5-S	1	M	Fair	Slight crown thinning. Growing on ridge of drainage ditch.	No works presently required	10+	C3	NO	YES	MOD	RET		8.9
1	T026 (Tag 2)	Yew	8	1200	7	7	7	7.0	2-S	0.5	M	Fair	Growing on ridge of drainage ditch. Large stem girth. Limited dead wood habitat. Crown cut back to south. Aerial buttress roots.	No works presently required	40+	A3	NO	YES	MOD	RET		14.4
1	T027	Common Oak	17	550;480; 500;350	8	8	10	8.0	4-S	3	M	Good	Old coppice stool. Multi stems from ground level. Broad open crown. Mutually suppressed crowns inducing leans on stems. Occasional small to moderate diameter dead wood in lower and middle crown.	No works presently required	40+	B2	YES	YES		RET		11.4
1	T028	Common Oak	17	450;410; 300	5	9	9	5.0	3-E	2	M	Good	Growing on face of ditch. Main stem trifurcates at approximately 1m. Unions appear sound. Crown dominant towards existing access road.	No works presently required	40+	B2	YES	YES	LOW	RET		8.1

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T029	Oak	22	680	9	14	14	10.0	3	3	M	Good	On bank of wood boundary earthwork; neighbouring trees slightly suppressing crown growth	No works required at time of survey	40+	A2	YES	YES		RET		8.2
1	T030	Common Oak	18	660;250	8	5	9	5.0	6-SE	6	M	Fair	Growing on north bank of dry drainage ditch. Basal stem to west. Co-dominant union on east stem at 3m, union appears sound. Dense ivy encroachment on main stem and into crown	No works presently required	40+	B2	NO	YES		RET		8.1
1	T031	Common Oak	14	400;400	6	6	10	3.0	3-S	2	M	Fair to good	Growing on north bank of drainage ditch. Co-dominant stems from approximately 500mm. Developing heartwood decay beneath union within basal cavity. Crown suppressed by adjacent trees.	No works presently required	40+	B2	YES	YES		RET		6.8
1	T032 (Tag 196)	Yew	16	650	7	7	7	7.0	1	0.5	M	Good	Growing at foot of wood boundary earthwork, with network of roots extending along bank; widespread epicormic growth	No works required at time of survey	40+	B2	NO	YES	NOT KNOWN	RET		7.8
1	T033	Common Oak	18	900	8	9	9	8.0	2-S	2	M	Good	Growing on top of drainage ditch bank. Pronounced buttress roots and surface root activity to south and on bank face. Light ivy encroachment on main stem. Open crown form.	No works presently required	40+	B2	YES	YES		RET		10.8
1	G034A	Common Oak	17	660	8	7	9	6.0	5-SE	4	M	Fair to good	Growing on top of drainage ditch bank. Occasional moderate diameter dead wood in lower crown.	No works presently required	40+	B2	YES	YES		RET		7.9
1	G034B	Common Oak	16	720	8	7	9	6.0	5-SE	4	M	Fair to good	Growing on top of drainage ditch bank. Occasional moderate diameter dead wood in lower crown.	No works presently required	40+	B2	YES	YES		RET		8.6
1	G034C	Common Oak	16	620	6	6	8	6.0	3-S	3	M	Fair	Face of bank. Crown suppression to north east.	No works presently required	40+	B2	YES	YES		RET		7.4
1	T036	Yew	6	550	3	6	6	6.0	1-S	1	EM	Fair	Crown historically lifted. Growing on south bank of drainage ditch. Occasional small diameter dead wood in lower crown.	No works presently required	40+	B1	YES	YES	MOD	RET		6.6

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T037	Yew	15	650	7	7	7	7.0	0.5-NE	0.5	M	Good	Atop wood boundary earthwork; extensive exposed root system along top of mound, with hollow beneath tree;	No works required at time of survey	40+	B2	NO	YES		RET		7.8
1	T038	Common Oak	20	750	6	7	14	5.0	4-S	4	M	Fair	Growing on raised earth bank. Slight lean to south. Co-dominant stems from 4m, slight included bark at junction. Pronounced basal swelling. Frayed branch wound at approximately 5m to south east. Potential habitat value.	No works presently required	40+	B2	NO	YES		RET		9.0
1	T039(0150)	Yew	15	800	6	9	8	8.0	1.5-NW	0.5	M	Fair to good	Relatively uniform crown. Occasional small diameter dead wood in lower and middle crown. Hung-up dead stem in crown to south east. Lower crown in contact with ground.	No works presently required	40+	A1	NO	YES		RET		9.6
1	T041(0772)	Yew	10	620	8	7	6	6.0	1-N	0.5	M	Fair	Growing north if earth bank. Occasional small to moderate diameter dead wood throughout crown. Dominant to north. Mutually suppressed crown	No works presently required	40+	B1	NO	YES		RET		7.4
1	T042(0149)	Yew	17	1130	8	8	8	8.0	1-N	1.5	M	Fair to good	Growing north of earth bank. Broad crown. Basal stems established. Occasional frayed branch wounds. Small to moderate diameter dead wood within lower and middle crown.	No works presently required	40+	A1	NO	YES	MOD	RET		13.6
1	T043 (0148)	Yew	16	760	8	7	5.5	7.0	1.8-W	1	M	Fair	Small to moderate diameter dead wood within lower crown. Lower branches in contact with ground in places. Slight crown thinning.	No works presently required	40+	B1	YES	YES		RET		9.1
1	T044(0142)	Yew	16	450;450; 450;450; 450	8	8	8	8.0	1.8-SW	1.5	M	Fair	Multi stems from ground level. Historic pruning of lower branches visible to west. Small to large diameter dead wood within lower and middle crown. Desiccated white rot present. Crown thinning.	No works presently required	40+	A1/3	NO	NO		RET		10.8
1	T045 (0144)	Yew	15	680	7	7	6	6.0	1-S	0	M	Fair	Crown thinning. Small to moderate diameter dead wood within lower and middle crown. Basal stems failed and resting on ground to northeast. Snapped and hanging branches.	No works presently required	40+	B1	NO	NO		RET		8.2
1	T046 (0143)	Yew	12	790	9	9	9	9.0	0-W	0.5	M	Fair	Small to large diameter dead wood in lower crown. Some branches resting on ground. Water pockets in main stem. Balanced crown. Desiccated white rot present. Some crown thinning.	No works presently required	40+	B1	NO	NO	MOD	REM		9.5

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T047(0141)	Yew	17	620;280	8	8	8	8.0	0.5-SW	0.5	M	Fair to good	Basal stems to south west. One in contact with ground, other growing vertically through crown. Dense epicormic growths on east side of main stems, benefitting from sunlight exposure. Small to large diameter dead wood within lower and middle crown. Hanging broken small diameter branches to west.	No works presently required	40+	B1	YES	NO	MOD	RET		8.2
1	T048(0146)	Yew	17	830	8	10	10	9.0	1-E	0.5	M	Fair	Pronounced scaffold branches to south. Large diameter dead wood within lower crown, developing heartwood decay on large diameter cut branch to south east. Further small to moderate diameter dead wood within middle crown. Multi stems from approximately 4m. Broad open crown. Silver birch collapsed and hung-up in west crown extents.	Remove silver birch within west crown extents	40+	A1	NO	NO		RET		10.0
1	T049(0145)	Yew	12	530	6	7	7	6.0	1-E	0.5	M	Fair	Developing heartwood decay in large basal wound to south west. Historic. Pronounced reaction wood on periphery. Small to moderate diameter dead wood within lower crown. Relatively squat habit.	No works presently required	40+	B1	NO	NO		RET		6.4
1	T050	Oak	18	760	8	4	10	10.0	3	4	M	Good to fair	On wood boundary earthwork, with steep dry ditch 2m to west; crown growth suppressed by neighbouring trees on east side; occasional branch tears, sub-75mm diameter deadwood branches and stubs; full crown of marcescent leaves at time of survey.	Remove larger deadwood if adjacent to proposed works	20+	B2	NO	NO		RET		9.1
1	T051	Common Oak	19	750	6	6	6	8.0	1-NW	1	M	Fair to good	Basal cavity to south east revealing developing heartwood decay. Pronounced buttress roots compensating for any loss in structural integrity. Dense ivy encroachment on main stem and into crown. Occasional small to moderate diameter dead wood within lower and middle crown.	No works presently required	40+	B1	NO	NO		RET		9.0
1	T052(0154)	Yew	17	780;330;280	10	6	9	9.0	1-NE	0.5	M	Fair to good	Crown suppressed to east. Small to large diameter dead wood within lower crown. Large diameter dead branch stubs to south and east with developing heartwood decay. Broad crown to remaining cardinal points. Horizontal split in lower branch to south west. Habitat potential. Desiccated white rot present on large wound on east basal stem. Developing heartwood decay.	No works presently required. Ganoderma spp, brackets present in cavity within main stem at approximately 1m. Desiccated white rot present, developing heartwood decay.	40+	A1/3	NO	NO		RET		10.7

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T053(0165)	Yew	16	960	10	9	9	4.0	1.5-SE	1	M	Fair to good	Large wound on south west side of main stem. Desiccated white rot present, potential developing heartwood decay. Small to moderate diameter dead wood in lower and middle crown. Slight fire damage on lower branches to west. Dense epicormic growths on branches in sunny aspect.	No works presently required	40+	B1	YES	NO		RET		11.5
1	T054	Oak	22	500 + 320 + 300 + 200	12	6	9	14.0	2	2	M	Good	On wood boundary earthwork; stems rising from near ground level; crown growth mostly to west, suppressed by neighbouring trees to east; sub-100mm diameter deadwood branches in lower crown.	Remove larger deadwood if adjacent to proposed works	40+	B2	NO	NO		RET		8.4
1	T055(0151)	Yew	14	990	9	9	9	9.0	1.5-E	1	M	Good	Multi stems from approximately 1.2m. Water pocket at centre, build of decaying leaf matter. Small to large diameter dead wood within lower and middle crown. Developing heartwood decay on north east stem at historic failure point.	No works presently required	40+	A1	NO	NO		RET		11.9
	G056	Goat Willow	8	150	4	4	4	4.0	0	0	SM-M	Good	Line of goat willow formerly managed as hedge at 1m high, no longer managed and grown tall; originally planted on south-west side of ditch (waterlogged at time of survey), now also self-set at foot of ditch and on opposite bank; 2.5m between footpath and ditch.	No works required at time of survey	20+	B2				RET		1.8
	W057	A Woodland	18	400	4	4	4	8.0	N/A	0	SM to EM	Fair to good	Mixed broad leaf dominated woodland. Silver birch abundant. Oak frequent and occasional goat willow, holly and Scots pine. Fairly uniform vertical structure. Wet ditch between trees and existing compacted hard-core footpath. Beyond footpath a further wet ditch exists before the site extents. Considerable root barrier to growth towards west.	No works presently required	20+	B2				RET		4.8
	W058	A Woodland	20	800	8	8	8	8.0	N/A	0	Y to OM	Fair to good	Broad leaf dominated woodland. Abundant sycamore, holly, silver birch. Frequent oak, including occasional mature specimen. Goat willow Occasional Scots pine, including collapsed over mature specimen. Rare beech, yew. Limited understorey. Significant self sown trees. Existing wet drainage ditch between trees and site, including compacted aggregate footpath. Root barrier to growth. Rhododendron established.	Rhododendron management	40+	B2				RET		9.6

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	W058A	Common Oak	15	400;400	6	1	6	6.0	4-W	4	SM	Good	Co-dominant stems from approximately 500mm. Tight union. Shallow wet ditch between tree and existing compacted aggregate footpath. Potential root barrier to growth towards west.	No works presently required	20+	B2				RET		6.8
	W058B	Common Oak	17	550	7	4	7	8.0	4-NW	4	EM	Good	Shallow dry ditch between tree and existing compacted aggregate footpath. Dense ivy encroachment on main stem. Occasional moderate diameter dead wood within lower crown.	No works presently required	20+	B2				RET		6.6
	W058C	Common Oak	15	350	3	3	3	5.0	4-W	4	SM	Fair	Existing wet ditch between tree and existing compacted aggregate footpath. Potential root barrier to growth. Light ivy encroachment on main stem. Occasional small to moderate diameter dead wood within lower and middle crown.	No works presently required	20+	B2				RET		4.2
	T059	Horse Chestnut	20	610	6	4.5	11	7.0	2-S	2	M	Poor	Large tree, crown mostly dead; extensive decay of lower stem, east side; long narrow slit wounds on stems	Reduce to height of c.10m due to poor physiological condition	<10	U				RET		7.3
	T060	Oak	25	990	11	24	12	4.0	4-E	3	M	Good	On linear mound in woodland; slight stem lean and crown growth to east; vast crown has occasional sub-100mm diameter deadwood; large dead branch with shear crack low to south-east; small girdling roots of adjacent rhododendron shrubbery restricting buttress growth; fence wire embedded in stem.	Remove girdling roots; remove larger deadwood if adjacent to proposed works	40+	A2				RET		11.9
	T061	Beech	6	640	0	0	0	0.0	N/A	0	OM	Dead	Standing dead monolith. Developing heartwood decay. Extensive desiccated white rot present. Dead wood habitat value. Notably for saprophytic invertebrates.	No works presently required	10+	C3				RET		7.7
	T062	Scots Pine	4	700	0	0	0	0.0	N/A		OM	Dead	4m monolith remains. Top failed and hung-up in adjacent tree. Extensive desiccated white rot present. Cracks and fissures visible. Dead wood habitat value, notably saprophytic invertebrates.	No works presently required	10+	C3				RET		8.4
	T063	Oak	24	1110	12	12	10	9.0	3	4	M	Good	Large goblet shape; frequent sub-100mm diameter deadwood throughout crown; large branch tear wound above crown break to south-west.	Remove larger deadwood if adjacent to proposed works 59/60/63 mention damp ditch to south-west in all cases	40+	A2				RET		13.3

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G064	Goat Willow	11 ave.	200 ave.	6	6	6	6.0	0	0.5	Y-M	Fair	Mostly unmanaged goat willow growing in and along both sides of variably damp ditch line to north of track; at south-east end, less formal earth path on north side of ditch; older trees frequently multi-stemmed, result of previous cutting back to ground level; occasional self-set sycamore with co-dominant stems, infrequent birch, hawthorn; occasional collapsed stems	Remove collapsed stems if adjacent to proposed works	10+	C2				RET		2.4
	T065	Common Oak	17	800	8	8	8	8.0	3-W	3	M	Good	Moderate ivy encroachment on main stem. Existing shallow damp ditch between tree and existing compacted aggregate footpath. Potential root barrier to growth towards west. Occasional stub of moderate diameter dead wood within middle crown.	No works presently required	40+	A2				RET		9.6
	T066	Common Oak	17	900	9	9	9	9.0	4-NW	4	M	Good	Base not accessible. Measurements estimated. Broad open crown. Wet ditch providing root barrier to growth for part of west extents. Compacted aggregate footpath also between tree and site.	No works presently required	40+	A2				RET		10.8
	H067	A Hedgerow	3	150	1.5	1.5	1.5	1.5	0	0	SM	Good	Tidy young beech hedge at garden boundary; dry ditch on site side	No works required at time of survey	10+	C2				RET		1.8
	T068(1002)	Corsican Pine	28	900	10	10	10	10.0	6-N	5	M	Good	Prominent tree given large size and scale. Existing access road entrance approximately 2m from base of tree. Gravel surface. Occasional small to moderate diameter dead wood within middle crown.	No works presently	20+	A1				RET		10.8
	T069	Common Oak	18	1050	9	3	8	9.0	4-SW	3	M	Good	Crown suppression to east. Storm damage recorded in crown. Frayed wounds remaining. Occasional small to moderate diameter dead wood in lower and middle crown. Basal cavity to north west. Developing heartwood decay visible.	No works presently required	40+	A1/2				RET		12.6
	T070	Common Oak	24	1100	10	11	11	8.0	4-E	3	M	Good	Prominent tree given large size. Habitat hole in main stem to north at 1.2m. Revealing developing heartwood decay. Further cavities in old branch wound to south at 4&6m. Storm damage recorded in crown, frayed branch wounds remaining. Including desiccated white rot.	No works presently required.	40+	A1/2				RET		13.2
	G071	Blackthorn, oak	10	200	3	3	3	3.0	N/A	0	Y to SM	Fair to good	Blackthorn scrub dominates with intermittent standard young oak trees. Mutually suppressed crowns. Scrub cut back in places for new fence line.	No works presently required	20+	B2				PRG	130m ²	2.4

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G071A	Common Oak	10	280	4	4	4	4.0	N/A	1	Y	Good	Part of G071.	No works presently required	20+	B2				REM		3.4
	G071B	Common Oak	10	170	3	3	3	3.0	N/A	1	Y	Good	Part of G071.	No works presently required	20+	B2				REM		2.0
	G071C	Common Oak	10	220	3	3	3	3.0	N/A	1	Y	Good	Part of G071.	No works presently required	20+	B2				RET		2.6
	G071D	Common Oak	10	200	3	3	3	3.0	N/A	1	Y	Good	Part of G071.	No works presently required	20+	B2				RET		2.4
	G071E	Common Oak	10	180	3	3	3	3.0	N/A	1	Y	Good	Part of G071.	No works presently required	20+	B2				REM		2.2
	G071F	Common Oak	10	140	2.5	2.5	2.5	2.5	N/A	1	Y	Good	Part of G071.	No works presently required	20+	B2				RET		1.7
	T072	Common Oak	18	740	6	2	6	6.0	3-W	3	M	Fair	Storm damage recorded in crown. Old frayed wounds, and pruning wounds present. Loss of apical dominance. Desiccated white rot present at wounds. Crown suppression to east.	No works presently required	20+	B2				RET		8.9
	T073	Common Oak	22	1100	6	9	11	6.0	5-S	4	M	Fair to good	Basal cavity to north. Section of fore damage. Developing heartwood decay, and stem hollowing. Evidence of storm damage recorded within crown. Frayed wounds. Occasional small to moderate diameter dead wood throughout crown. Fistulina hepatic at basal cavity.	No works presently required	40+	A1/2				RET		13.2
	T074	Common Oak	20	1000	8	6	8	5.0	6-E	5	M	Good	Growing on east bank of brook. Curved main stem. Occasional small to moderate diameter dead wood within middle crown. Occluding wounds on main stem.	No works presently required	40+	A2				RET		12.0
	T075	Common Oak	19	1300	14	5	8	12.0	4-N	2	Vet	Good	Large stem circumference for species in locality. Desiccated white rot present on old wound to east side of main stem. Storm damage recorded within crown, frayed wounds remaining and desiccated white rot present. Potential for developing heartwood decay. Crown break at approximately 3m. Pronounced northern scaffold branch.	No works presently required	40+	A1/2/3				RET		15.6

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G076	Poplar, oak, blackthorn, hawthorn, elm	12	200	3	3	3	3.0	N/A	0	Y to Sm	Good	Informal group. Predominantly self sown. Dead trees in places. Dense group. Bases not accessible.	No works presently required	10+	C2				PRG	316m2 trees to be removed	2.4
	T077	Common Oak	20	1300	11	9	8	9.0	4-NE	3	Vet	Fair to good	Large stem circumference. Storm damage recorded in lower and middle crown. Large diameter frayed wounds remaining. Upper crown still full, limited sign of retrenchment due to advanced age. Developing heartwood decay in old branch wounds.	No works presently required	40+	A1/2/3				RET		15.6
	T078	Common Oak	18	1050	7	8	9	8.0	3-E	3	M	Good	Area of saturated ground in root zone to north. Cavity on main stem at 1m to west. Revealing desiccated white rot. Saprophytic fungi present. Large diameter dead wood in lower crown to west. Desiccated in appearance.	No works presently required	40+	A1/2				RET		12.6
	T079	Common Oak	19	1080	6	11	10	5.0	3-E	2	M	Good	Co-dominant stems from approximately 7m, union appears sound. Potential historic storm damage within upper crown. Acute angles on some branches. Crown dominant to east and south. Slight lean on main stem. Frayed wounds in upper crown.	No works presently required	40+	A1/2				RET		13.0
	T080	Common Oak	16	900	6	7	7	7.0	4-S	3	M	Fair to poor	Crown in retrenchment. Extensive dieback and large diameter dead wood throughout crown. Desiccated white rot visible at large diameter wound on main stem at 1m. Developing heartwood decay. Live growth predominantly epicormic in habit. Basal cavity to south. Black exudates on main stem to east.	Reduce dead wood to stubs.	40+	C3				RET		10.8
	G081A	Common Oak	8	150	3	3	3	3.0	N/A	1.5	Y	Good	Intermittent young oak growing within predominantly hawthorn and blackthorn scrub. Potential self sown stock from veteran oak.	No works presently required	20+	C2				RET		1.8
	G081B	Common Oak	8	150	3	3	3	3.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		1.8
	G081C	Common Oak	8	150	3	3	3	3.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		1.8
	G081D	Common Oak	8	210	4	4	4	4.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		2.5

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G081E	Common Oak	8	200	3	3	3	3.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		2.4
	G081F	Common Oak	8	200	4	4	4	4.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		2.4
	G081G	Hawthorn	4	150	3.5	3.5	3.5	3.5	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		1.8
	G081H	Common Oak	6	200;110	4	4	4	4.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		2.7
	G081I	Common Oak	6	150	3	3	3	3.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		1.8
	G081J	Common Oak	6	180	0	2	5	5.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		2.2
	G081K	Common Oak	6	200	4	4	4	4.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		2.4
	G081L	Common Oak	6	330	5	5	5	1.5	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		4.0
	G081M	Common Oak	6	330	5	3	5	5.0	N/A	1.5	Y	Good	Part of G081.	No works presently required	20+	C2				RET		4.0
	T082	Common Oak	5	1400	12	12	12	16.0	3-W	3	Vet	Good	Large stem circumference for species in locality. Vast crown, dominant to west with pronounced scaffold branch. Evidence of storm damage recorded in lower and middle crown. Sub lateral branches now assuming dominance. Pronounced buttress roots. Likely to be developing heartwood decay, cavity in old branch wound in main stem. Occasional small to large diameter dead wood in lower and middle crown.	No works presently required	40+	A1/2/3			RET		16.8	

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T083	Common Oak	19	1250	10	10	9	7.0	6-E	3	Vet	Good	Large stem circumference. Basal cavity on south side of main stem revealing desiccated white rot and developing heartwood decay. Crown break at approximately 4m into multi stems suggesting historic pollard. Evidence of storm damage recorded within crown. Large diameter frayed wounds with developing heartwood decay.	No works presently required	40+	A1/2/3				RET		15.0
	T084	Common Oak	12	530	6	4	6	6.0	3-NW	3	SM	Good	Brook approximately 1.8m north. Crown break at 1.8m into multi stems, suggesting past pollard.	No works presently required	20+	B2				RET		6.4
	T085	Goat Willow	10	350	6	5	7	6.0	0-E	0	EM	Fair	Previously co-dominant stems from approximately 1m, east stem collapsed. Large diameter wound remaining.	No works presently required	10+	C2				RET		4.2
	T086	Oak	20	1120	15	12	12	12	2.5	1.5	M	Good	Lifebelt' swelling on south side of stem; regulation quantities of storm damage, branch tears, deadwood; pockets of decay associated with branch failure points.	Remove larger deadwood only if adjacent to proposed works	40+	A2				RET		13.4
	G086	Oak	9	360	5.5	5.5	5.5	5.5	1.5	1.5	SM-EM	Good	Row of trees on verge between pavement and park boundary fence; lower branches cut back on pavement side	No works required at time of survey	40+	B2				PRG	1no tree to be removed	4.3
	G087A	Common Oak	14	370	6	7	5	6.0	2-E	1.8	Y to SM	Fair to good	Intermittent oak trees growing on sloped bank. Mutually suppressed crowns. Occasional small diameter dead wood in lower crowns.	No works presently required.	20+	B2				RET		4.4
	G087B	Common Oak	12	320	3	5	6	6.0	2	1	Y to SM	Fair to good	Part of G087.	No works presently required.	20+	B2				RET		3.8
	G087C	Common Oak	12	230	4	5	5	3.0	2	1	Y to SM	Fair to good	Part of G087.	No works presently required.	20+	B2				RET		2.8
	G087D	Common Oak	14	380	6	6	6	6.0	2	1	Y to SM	Fair to good	Part of G087.	No works presently required.	20+	B2				RET		4.6
	H088	A Hedgerow	3.5	100	1	1	1	1	0	0	EM	Good	Managed hawthorn hedge at pavement side, maintained at 2m height; occasional young ash, elder; ivy	No works required at time of survey	10+	C2				PRG	19m2 trees to be removed	1.2
	G089A	Hawthorn	4.5	200	2.5	2.5	2.5	2.5	N/A	0	SM to EM	Fair to poor	Group of predominantly hawthorn. Growing on sloped bank. Dense ivy encroachment on stems. Extensive dieback in east tree.	No works presently required	10+	C2				REM		2.4

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G089B	Hawthorn	4.5	200	2.5	2.5	2.5	2.5	N/A	0	SM to EM	Fair	Part of G089	No works presently required	10+	C2				REM		2.4
	G089C	Hawthorn	4.5	200	2.5	2.5	2.5	2.5	N/A	0	SM to EM	Fair	Part of G089	No works presently required	10+	C2				RET		2.4
	G089D	Hawthorn	4.5	200	2.5	2.5	2.5	2.5	N/A	0	SM to EM	Fair	Part of G089	No works presently required	10+	C2				RET		2.4
	G089E	Hawthorn	4.5	200	2.5	2.5	2.5	2.5	N/A	0	SM to EM	Fair	Part of G089	No works presently required	10+	C2				RET		2.4
	T091	Goat Willow	6	300 + 300 + 300 + 300	10	10	10	10	0	0	M	Fair	Single specimen with limbs sprawling in characteristic starfish formation; some limbs collapsed, or with shear cracks, or failure at bark-included basal union.	Coppicing of collapsed and shear crack stems will be required if proposed works pass through crown	20+	B2				RET		7.2
	T092	Ash	20	700	2	16	6	2.0	5-E	3	M	Fair	Growing within woodland on lean to east. Crown also dominant to east. Historic ground disturbance around base. Dense ivy encroachment around base and into crown.	Reduce crown in lateral spread to east by approximately 5m.	20+	B2				RET		8.4
	G093A	Hazel	4	80;80;80 ;80;80	4	4	4	4.0	N/A	0.5	M	Fair	Multi stem hazels, suggesting past felling to ground level and regeneration. Ivy encroachment on some stems. No recent management visible. Extensive leans on some stems.	No works presently required	10+	C2				RET		2.1
	G093B	Hazel		100;100; 100;100; 100	5	5	5	5.0	N/A	0	M	Fair	Fused stems. Extensive leans	No works presently required	10+	C2				RET		2.7
	T094	Ash	17	270 + 250 + 180	10	10	4	0	2	2	EM	Fair	On small earth mound at wood margin, leaning to north-east, away from large oak to west; established ivy into upper crown.	No works required at time of survey	20+	C2				RET		4.9
	G095	Common Oak	20	750	7	7	7	7.0	3-E	6	M	Fair to good	Growing on edge of woodland. Dense ivy encroachment on main stem. Basal area not visible. Historic ground disturbance to west.	No works presently required	40+	B2				RET		9.0
	G095	Common Oak	22	900	7	7	7	9.0	12-S	16	M	Fair to good	Elongated wound on south side of main stem from ground level. Desiccated white rot present. Dense ivy encroachment from ground level extending into crown.	No works presently required	40+	A2				RET		10.8

ATKINS BASELINE - LOW RISK

RPA Radius (m)	Quantities for removal	Remove/Part Remove/Retain	Bat potential High / Moderate / Low / blank	No-dig (Cellweb)	Crown lift to 5.4m or as instructed on site	Cat Grading	Est'd Remaining Contribution (Yrs)	Preliminary management recommendations	General observations	Vitality	Life Stage	Canopy height (m)	1st significant branch ht (m)	Branch sp'd W (m)	Branch sp'd S (m)	Branch sp'd E (m)	Branch sp'd N (m)	Stem Dia (mm)	Height (m)	Species	Tree ID	Phase
16.6		RET				A1/2/3	40+	Remove larger deadwood branches only if adjacent to proposed works	VETERAN TREE (TV1) Vast specimen 400mm from closeboard garden fence; basal cavity opening between buttress roots to north and west; pockets of decay at historic branch removal wounds on lower stem; large crown previously lightly reduced; occasional larger deadwood branches.	Good	M	6	10-E	15	12	14	14	1380	32	Oak	T096	
12.0		RET				A2	40+	No works presently required	Desire line 2m east. Dead ivy on main stem. Large diameter frayed wound to north from past storm damage. Occasional small to moderate diameter dead wood throughout crown. Likely to be a result of a competition for sunlight.	Fair to good	M	5	3-E	8.0	10	3	7	1000	25	Common Oak	T097	
6.5		RET				B2	20+	No works required at time of survey	High-crowned tree, secondary stem leaning to east; light ivy encroachment	Good	EM-M	3	3.5-NW	7	9	11	5	450 + 290	25	Ash	T098	
3.2		RET				C2	10+	No works presently required	Intermittent group of trees. Drawn stems, leans and mutual crown suppression. Ivy encroachment on some stems. Occasional small to moderate diameter dead wood in lower and middle crowns.	Fair	SM	3	2-E	4.5	4.5	6	1	270	15	Hornbeam	G099A	
2.0		RET				C2	10+	No works presently required	Part of G099	Fair	SM	3	N/A	3.0	3	3	0	170	15	Hornbeam	G099B	
2.0		RET				C2	10+	No works presently required	Part of G099	Fair	SM	3	N/A	3.0	3	3	3	170	15	Hornbeam	G099C	
2.0		RET				C2	10+	No works presently required	Part of G099	Fair	SM	3	N/A	3.0	3	3	3	170	15	Hornbeam	G099D	
6.4		RET				C2	10+	No works required at time of survey	Third party tree close behind timber garden fence, forking at 1400mm; crown overhanging woodland area to west, with ad hoc crown lifting above path.	Good	M	1.5	1.5-W	7	7	7	7	440 + 290	9	Portuguese laurel	T100	
11.4		RET				A2	40+	No works presently required	(4) Dead ivy on main stem and in crown. Desire line approximately 4.5m east. Co-dominant stems from approximately 12m, slight compression fork. Evidence of storm damage recorded within crown. Frayed wounds and desiccated white rot visible.	Good	M	6	6-SE	10.0	12	7	6	950	28	Common Oak	T101	

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T102	Common Oak	26	950	7	10	14	8.0	5-E	5	M	Good	Desire line approximately 3m east. Extensive dead ivy on main stem and into crown. Evidence of past storm damage recorded within crown. Decay cavities visible in upper crown.	No works presently required	40+	A2				RET		11.4
	T103	Common Oak	19	790	7	10	7	7.0	5-E	6	M	Fair	Crown previously reduced in height and lateral spread. Abrupt angles on pruning wounds and good regrowth. Elongated basal wound to north occupying approximately 40% of stem circumference. Desiccated white rot present. Fistulina hepatica . pronounced reaction wood on periphery. Historic wound.	No works presently required	20+	B2				RET		9.5
	T104	Common Oak	22	920	6	13	13	6.0	5-SE	5	M	Fair	Evidence of past storm damage within upper crown. Elongated wounds and regrowth present. Desiccated white rot visible at frayed wounds. Dense epicormic growths on main stem.	No works presently required	40+	A2				RET		11.0
	T105	Common Oak	26	960	8	9	6	1.0	6-SE	6	M	Good	Basal cavity to north, historic wound. Desiccated white rot present. Cavities in old branch wounds on main stem at various points, suggesting hollow in part. Co-dominant stems at approximately 18m. Former apical stem cut back to this point.	No works presently required	40+	A2				RET		11.5
	T106	Common Oak	6	900	0	0	0	0.0	N/A	N/A	OM	Dead	Standing dead stem. Extensive desiccated wood visible. Developing heartwood decay. Habitat holes.	Retain as dead wood habitat.	10+	C3				RET		10.8
	T107	Common Oak	26	1280	10	17	17	6.0	4-S	6	Vet	Fair	Crown previously reduced in height and lateral spread. Unoccluded wounds. Regrowth in places. Abrupt angles on retained branches. Evidence of past storm damage. Frayed wounds and elongated cavities. Desiccated white rot present. Developing heartwood decay.	No works presently required	40+	A1/2/3				RET		15.4
	T108	Common Oak	32	1020	14	14	11	9.0	20-S	18	M	Fair to good	Dense ivy encroachment on main stem and in crown. Old pruning wound to south on main stem. Unoccluded. Occasional small to moderate diameter dead wood in lower and middle crown.	No works presently required	40+	A1/2				RET		12.2

ATKINS BASELINE - LOW RISK

		 Member of the SNC-Lavalin Group																				
Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T109	Ash	19	530;380; 380;300; 300	12	12	7	6.0	2-SE	3	M	Fair to good	Large multi stem tree. Suggesting past felling close to ground level and regeneration. South stem dead and within falling distance of adjacent path. Daldinia concentrica present. Drawn stems, leans. Dead ivy.	Fell south stem.	20+	B2				RET		10.4
	T110	Ash	18	580	8	8	8.5	10.0	4.5-SW	5	EM	Good	Compression fork at co-dominant union at 4m on main stem. Crown previously lifted.	No works presently required	10+	C2				RET		7.0
	T111	Common Oak	18	1070	9	10	9	10.0	2-S	2.5	M	Fair to good	Cavities in main stem at various points. Revealing developing heartwood decay. Elongated wounds in crown from past storm damage. Desiccated white rot present. Small to moderate diameter dead wood in lower and middle crown.	Consider crown reduction in height and lateral spread given past storm damage	40+	B2				RET		12.8
	W112	A Woodland	18 ave.	300 ave.	7	7	7	7	3	2	EM-M	Good	Wooded area, oak and birch predominant; ditch along boundary facing open space to north where reservoir proposed - watery along most of its length - reducing likelihood of tree roots extending beyond this ditch into open space; frequent multi-stemmed hazel near ditch; occasional holly; ash at east end; larger oaks mostly confined to central area, where woodland may be older; prominent trees recorded individually	No works required at time of survey	40+	B2				RET		3.6
	W112-A	Ash	20	580	6	6	6	6	4	4	EM	Fair	High crown slightly sparse; frequent sub-75mm diameter deadwood in lower crown; 2m from ditch bank	Remove deadwood if adjacent to proposed works	20+	C2				RET		7.0
	W112-B	Oak	15	440	11	4	3	7	5	5	EM	Good	2m from steep ditch bank; crown leans towards open space to north	No works required at time of survey	20+	B2				RET		5.3
	W112-C	Beech	17	330	9	5	0	5	2	2	EM	Good	At top of ditch bank, pronounced lean towards open space to north	No works required at time of survey	20+	B2				RET		4.0
	W112-D	Oak	15	360	10	2	5	6	2.5-N	3	EM	Good	At top of ditch bank (steep section); crown growth suppressed by larger neighbour to south-east	No works required at time of survey	20+	B2				RET		4.3
	W112-E	Oak	16	470	8	6	7	8	2	2	EM-M	Good to fair	Compact form; 1m from ditch bank; frequent small to medium deadwood	Remove larger deadwood if adjacent to proposed works	20+	B2				RET		5.6
	W112-F	Oak	20	650	11	11	11	9	2-NW	2	M	Good	3m from ditch bank	No works required at time of survey	40+	A2				RET		7.8

ATKINS BASELINE - LOW RISK

		 Member of the SNC-Lavalin Group																					
Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)	
	W112-G	Oak	18	770	12	8	12	9	6	6	M	Good to fair	3m from ditch bank (dry section); crown slightly sparse; frequent deadwood branches	Remove larger deadwood only if adjacent to proposed works	40+	A2				RET		9.2	
	W112-H	Oak	21	920	10	10	12	7	5	5	M-OM	Fair	5m from ditch bank (dry section); large historic strip wound 2-14m - possible lightning strike - desiccated xylem wood; similar smaller wound on south-east face, 2-10m; large deadwood branches; no crown retrenchment; high biodiversity and habitat value.	Remove larger deadwood only if adjacent to proposed works	40+	A2/3				RET		11.0	
	W112-I	Oak	22	810	15	10	15	15	6	5	M	Good	5.5m from ditch bank (dry section); regulation quantity of storm damage, deadwood	Remove larger deadwood only if adjacent to proposed works	40+	A2				RET		9.7	
	W112-J	Oak	18	710	12	10	5	7	2.5	2	M	Good	2.5m from ditch bank (dry section); crown growth towards open space to north	No works required at time of survey	40+	B2				RET		8.5	
	W112-K	Oak	17	770	11	6	9	8	2	2	M	Good to fair	2m from ditch bank (dry section); frequent deadwood	Remove larger deadwood only if adjacent to proposed works	40+	B2				RET		9.2	
	W112-L	Oak	20	690	16	9	10	5	6	5	M	Good	5.5m from ditch bank (dry section); large branch tear at crown break, south side; large limb extending to south-east	No works required at time of survey	40+	A2				RET		8.3	
	W112-M	Oak	20	610	9	8	9	6	5	5	M	Good	1.5m from ditch bank; occasional branch tears in high crown	No works required at time of survey	40+	B2				RET		7.3	
	W112-N	Oak	22	390 + 360 + 180	10	9	4	9	2	4	M	Good	Multistem, 3.5m from watery ditch; crown growth predominantly to open spce to north; small diameter deadwood	Remove larger deadwood only if adjacent to proposed works	40+	B2				RET		6.7	
	W112-O	Oak	20	380 + 270 + 270 + 270	9	8	6	7	2.5-NE	4	M	Good	Multistem, 3.5m from watery ditch; crown growth predominantly to open spce to north; small diameter deadwood	Remove larger deadwood only if adjacent to proposed works	40+	B2				RET		7.9	
	W112-P	Oak	20	330	8	8	4	6	6	6	M	Good	On bank of watery ditch; high crown slightly sparse; moss-covered mound on north side possible remnant of second stump; pronounced buttress roots	No works required at time of survey	20+	B2				RET		4.0	
	W112-Q	Oak	20	560	9	8	9	6	6	6	M	Good to fair	Frequent deadwood branches	Remove larger deadwood if adjacent to proposed works	40+	B2				RET		6.7	
	W112-R	Birch	20	300 + 290 + 280	11	4	4	7	3	4	M	Good	Multi-stemmed tree, 3.5m from watery ditch bank	No works required at time of survey	20+	B2				RET		6.1	
	W112-S	Ash	19	180 + 180 + 180 + 180	9	7	2	7	5	5	M	Fair	Multi-stemmed former coppice at top of watery ditch bank; light deadwood in rather sparse crown	No works required at time of survey	20+	C2				RET		4.9	

ATKINS BASELINE - LOW RISK

			 Member of the SNC-Lavalin Group																			
Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	W113	Common Oak	20	500	6	6	6	6.0	N/A	0	SM to EM	Good	Broadleaf woodland. Limited to oak varying from semi mature to early mature trees. Relatively uniform vertical structure. Some standing and fallen dead stems. Limited understorey, rare holly. Open. Density of approx. 6trees per 10m2.	No works presently required	40+	B2				PRG	14,106 m2 trees to be removed	6.0
	W113A	Common Oak	19	650	2	6	7	6.0	4-SW	6	EM	Fair	Part of W113. Small to moderate dead wood in lower and middle crown. Growing on south edge of woodland. Area of saturated ground to south. Crown suppressed to north.	No works presently required	20+	B2				RET		7.8
	W113B	Common Oak	19	640	4	4	8	4.0	N/A	6	EM	Fair	Part of W113.	No works presently required	20+	B2				RET		7.7
	W113C	Common Oak	19	760	4	4	8	7.0	5-S	6	EM	Fair	Part of W113. Pronounced buttress roots.	No works presently required	20+	B2				RET		9.1
	W113D	Common Oak	19	500	1.5	3	8	6.0	N/A	6	EM	Fair	Part of W113.	No works presently required	20+	B2				RET		6.0
	W113E	Common Oak	19	550	4	5	9	5.0	8-S	6	EM	Fair	Part of W113.	No works presently required	20+	B2				RET		6.6
	W113F	Common Oak	19	500	1	4	7	3.0	N/A	6	EM	Fair	Part of W113.	No works presently required	20+	B2				RET		6.0
	W113G	Common Oak	19	380	2	2	4	4.0	N/A	6	EM	Fair	Part of W113.	No works presently required	20+	B2				RET		4.6
	G114	Goat willow, silver birch, hawthorn	6	350	5	5	5	5.0	N/A	0	Y to M	Fair to good	Linear informal group growing adjacent to stream. Goat willow dominates. Largely multi stem trees. Collapsed stems in places. No active management recorded.	No works presently required	20+	B2				REM	34,051 m2 trees to be removed	4.2
	W115	Common Oak	20	500	6	6	6	6.0	N/A	0	SM to EM	Good	Broadleaf woodland. Limited to oak varying from semi mature to early mature trees. Relatively uniform vertical structure. Some standing and fallen dead stems. Limited understorey, rare holly. Open. Density of approx. 6trees per 10m2. Rare hawthorn. Water course through centre.	No works presently required	40+	B2				REM	24,118 m2 trees to be removed	6.0

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Viability	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	G116	Goat willow, oak, hawthorn, poplar	12	250	3.5	3.5	3.5	3.5	N/A	0	Y to SM	Fair to good	Potential lapsed hedgerow. Boundary feature. Single and multi stems recorded. Growing on raised bank. Saturated ground to west. Drawn stems, leans. Some collapsed. No recent management visible.	No works presently required	10+	C2				PRG	555M2	3.0
	W117	Goat willow, hazel and silver birch	18	500	5	5	5	5.0	N/A	0	Y to M	Fair to good	Woodland edge habitat with intermittent standard trees. Goat willow, hazel and silver birch dominant. Pine plantation to west. Existing compacted aggregate hard surface access route to east. Single and multi stems. Natural regeneration. Planted standard trees.	No works presently required	20+	B2				RET		6.0
	W117A	Common Oak	18	550	6	6	6	6.0	3-N	4	EM	Good	Part of W117. 4m from existing hard surface access route. High crown height.	No works presently required	20+	B2				RET		6.6
	W117B	Common Oak	18	500	6	6	6	6.0	3-E	3	SM	Good	Part of W117. 4.5m from existing hard surface access route. Growing on slight raised bank.	No works presently required	20+	B2				RET		6.0
	W117C	Turkey Oak	18	480	6	6	6	6.0	3-E	3	SM	Good	Part of W117. 7m from existing access road. Moderate ivy encroachment on main stem.	No works presently required	20+	B2				RET		5.8
	W117D	Turkey Oak	18	350	6	6	6	6.0	3-E	3	SM	Good	Part of W117.	No works presently required	20+	B2				RET		4.2
	W118	Oak, Hazel, ash, goat willow, elm, hawthorn	18	400	6	6	6	6.0	N/A	0	Y to EM	Good	Broadleaf woodland. Oak abundant. Eastern edge mainly goat willow, hazel and young self sown ash and oak. Occasional elm and hawthorn. Existing shallow wet ditch between trees and existing access road. Large more mature trees set back from road edge 7-10m.	No works presently required	20+	B2				RET		4.8
	W118A	Turkey Oak	18	530	6	6	6	6.0	N/A	3	SM	Good	Part of W118.	No works presently required	20+	B2				RET		6.4
	W118B	Common Oak	14	500	7.4	7.4	7.4	7.4	4-E	4	SM	Fair	Edge of W118. Existing compacted aggregate hard surface access route to east and south. Small to moderate diameter dead wood within lower crown.	No works presently required	20+	B2				RET		6.0
	G119	Goat willow, blackthorn, ash	7	150	2	2	2	2.0	N/A	0	Y to SM	Fair	Intermittent clumps of trees interspersed with bramble scrub. Lapsed hedgerow.	No works presently required	10+	C2				RET		1.8

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G120A	Common Oak	17	550	7	7	7	7.0	4-SE	4	SM TO M	Good	Linear group of predominantly oak. Intermittent pines. Existing wet drainage ditch between trees and existing compacted aggregate hard surface access route. Root barriers to growth toward east. Mutually suppressed crowns. Occasional small to moderate diameter dead wood in lower and middle crowns. Likely to be a result of sunlight shading.	No works presently required	40+	B2				RET		6.6
	G120B	Common Oak	17	550	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120.	No works presently required	40+	B2				RET		6.6
	G120C	Common Oak	17	450;400;200	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120.	No works presently required	40+	B2				RET		7.6
	G120D	Common Oak	17	500	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120.	No works presently required	40+	B2				RET		6.0
	G120E	Pine	17	890	8	8	8	8.0	4-SE	4	SM TO M	Good	Part of G120.	No works presently required	40+	B2				RET		10.7
	G120F	Common Oak	17	450	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120.	No works presently required	40+	B2				RET		5.4
	G120G	Common Oak	17	500	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120. Set higher ground. Approximately 1.6m drop to ditch	No works presently required	40+	B2				RET		6.0
	G120H	Monterey Pine	17	800	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120.	No works presently required	40+	B2				RET		9.6
	G120I	Monterey Pine	17	850	7	7	7	7.0	4-SE	4	SM TO M	Good	Part of G120. Basal wound to north east.	No works presently required	40+	B2				RET		10.2
	G120J	Monterey Pine	17	750	8.5	8.5	8.5	8.5	4-SE	4	SM TO M	Good	Part of G120. Hanging broken branch to south east	Remove hanging broken branch	40+	B2				RET		9.0

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G121	Ash, oak, goat willow, silver birch	10	400	6	6	6	6.0	N/A	0	Y to EM	Fair to good	Intermittent trees. Single and multi stems recorded. Goat willow predominantly multi stems. Small to moderate diameter dead wood present. Ivy encroachment on some stems. Existing compacted aggregate hard surface access route to west. Some collapsed branches.	No works presently required	20+	B2				RET		4.8
	G121A	Common Oak	8	400	5	6	5	1.0	1-E	0.5	SM	Fair	Elongated wound on west side of main stem revealing column of internal decay and desiccated white rot. Loss of vitality in upper crown. Small to moderate diameter dead wood present. Existing compacted aggregate hard surface access route to west.	No works presently required	10+	C2				RET		4.8
	G121B	Common Oak	9	450	7	7	7	1.0	1.8-E		SM	Fair	Basal stem established to west. Moderate ivy encroachment on main stem and into crown. Existing compacted aggregate access route to west. Slight loss of vitality in middle crown.	No works presently required	20+	B2				RET		5.4
	G121C	Goat Willow	11	400;400; 300;300; 250	8	8	8	7.0	5-E	3	OM	Fair	Large multi stem tree. Storm damage recorded in crown. Broken and hanging branches. Dieback in upper crown on some branches. Elongated horizontal splits.	Pollard at approximately 5m.	10+	C2				RET		9.0
	W122	Oak, ash, Lombardy poplar, goat willow, holly, hazel.	19	700	8	8	8	8.0	N/A	0	Y to M	Fair to good	Broadleaf woodland. Oak standards abundant, ash occasional, including multi stem stems indicative of past felling and regeneration, frequent hazel. Existing ditch between trees and existing access road. Root barriers to growth.	No works presently required	40+	B2				RET		8.4
	W122A	Common Oak	19	800	7	7	7	7.0	4-E	4	M	Good	Existing wet ditch to east. Root barrier to growth.	No works presently required	40+	B2				RET		9.6
	W122B	Lime	19	640	7.5	7.5	7.5	7.5	5-E	4	EM	Good	Growing approximately 1.6m higher than base of adjacent ditch.	No works presently required	40+	B2				RET		7.7
	W122C	Common Oak	19	800	8	8	8	8.0	6-E	6	M	Good	Growing adjacent to dry ditch. Existing compacted aggregate hard surface access route 2.5m east. Moderate ivy encroachment on main stem and into crown. Hanging broken branch in crown to south west.	No works presently required	40+	A2				RET		9.6
	W122D	Common Oak	18	800	8.5	8.5	8.5	8.5	4-NE	4	M	Fair to good	Existing shallow wet ditch and hard surface access route to east between tree and site. Hung-up broken branches in crown from previous storm damage. Light ivy encroachment on main stem.	No works presently required	40+	A2				RET		9.6
	W122E	Common Oak	18	400	5	5	5	5.0	3-N	3.5	SM	Fair	Growing within currently wet drainage ditch. Existing hard surface access route 1.5m east. Dead ivy on main stem.	No works presently required	20+	B2				RET		4.8

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T123	Common Oak	19	1000	6	9	9	9.0	4-W	4	M	Good	Prominent tree given size. Crown break at approximately 2.5m into three stems. Unions appear sound. Historic wound on south stem, reaction wood on periphery. Desiccated white rot present. Occasional large diameter dead wood in lower crown footpath directly west.	Remove or reduce large diameter dead wood overhanging footpath	40+	A2				RET		12.0
	T124	Common Oak	17	690	7	8	7.5	2.0	3-E	2	M	Fair	Dense ivy encroachment on main stem and into crown. Low crown height to east. Crown suppressed to west. Main stem growing on curve to east.	Sever ivy.	20+	B2				RET		8.3
	G125	Field maple, elm, hawthorn, oak, goat willow	18	350	3.5	3.5	3.5	3.5	N/A	0	Y to SM	Fair to good	Linear group along boundary. Areas of successional growth into site and some planting. Dead elm in places.	No works presently required	20+	B2				PRG	186m2 trees to be removed	4.2
	W126	Red oak, common oak, hazel, hawthorn, field maple	16	350	5.5	5.5	5.5	5.5	N/A	0	SM to EM	Good	Planted woodland blocks. Red oak abundant; common oak and ash occasional. Multi stem hazel understorey.	No works presently required	40+	B2				RET		4.2
	W127-A	Oak	24	720	10	8	11	11	4	4	M	Good	On earth mound to north of junction of Avenue and secondary path; infrequent 150mm diameter deadwood branches in large crown	Remove larger deadwood if adjacent to proposed works	40+	A2				RET		8.6
	W127-B	Oak	20	610	9	4	8	10	6	6	M	Fair to poor	At south end of Avenue, on north side of path; storm damage includes branch tear to south at crown break; light dieback and frequent deadwood branches; mutual crown suppression; mallet sounding and shedding of bark from buttress roots indicative of basal decay	Remove larger deadwood only if adjacent to proposed works	20+	C2				RET		7.3
	W127-C	Oak	19	630	12	11	6	6	4-NE	7	M	Good	At south end of Avenue, on north side of path; crown growth suppression by neighbour to south-west; mallet sounding and shedding of bark from buttress roots indicative of basal decay	No works required at time of survey	40+	B2				RET		7.6
	W127-D	Oak	20	780	10	10	10	10	2.5-S	2.5	M	Good	Tagged 0048	No works required at time of survey	40+	A2				RET		9.4
	W127-E	Oak	20	620	7.5	7.5	7.5	7.5	2.5	2.5	M	Good	(void)	No works required at time of survey	40+	B2				RET		7.4
	W127-F	Oak	19	670	9	9	9	9	4-S	4	M	Fair	Occasional large deadwood	Remove larger deadwood if adjacent to proposed works	40+	B2				RET		8.0

ATKINS BASELINE - LOW RISK

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Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	W127-G	Yew	16	760	8	8	8	8	2	1	M	Good	3m from Avenue; beneath oaks; some lower branch removal; no dieback observed	No works required at time of survey	40+	B2				RET		9.1
	W127-H	Oak	24	760	13	13	13	13	8	8	M	Fair	Occasional large diameter deadwood in large high crown; dieback at crown extents; part-fallen tree propped against stem on north side	Remove larger deadwood if adjacent to proposed works; also remove propped tree	40+	B2				RET		9.1
	W127-I	Oak	22	710	9	9	9	9	5	5	M	Good to fair	Straggling crown has occasional large diameter deadwood	Remove larger deadwood if adjacent to proposed works	40+	B2				RET		8.5
	W127-J	Beech	20	720	10	10	10	10	1.5	1	M	Good	Occasional storm damage; vertical slit decay cavity low to west	No works required at time of survey	40+	B2				RET		8.6
	W127-K	Oak	25	810	12	12	12	12	5	4	M	Fair	Mutual crown suppression; long limb to south-west; branch tears, large diameter deadwood branches	No works required at time of survey	40+	B2				RET		9.7
	W127-L	Oak	24	870	15	15	15	15	4	3	M	Good	Locally dominant, regulation quantities of storm damage, deadwood; minor dieback only	Remove larger deadwood only if adjacent to proposed works	40+	A2				RET		10.4
	W127-M	Beech	24	690	11	11	11	11	4	3	M	Good	Occasional storm damage - branch tears and associated decay in upper crown	No works required at time of survey	40+	B2				RET		8.3
	W127-N	Oak	24	780	12	12	12	12	6	6	M	Fair	Light crown dieback	No works required at time of survey	40+	B2				RET		9.4
	W127-O	Oak	22	630 + 570 + 410	15	15	15	15	4	4	M	Fair	3no stems growing close to each other; smaller stem standing deadwood; regulation quantity of crown deadwood	Remove larger deadwood only if adjacent to proposed works	40+	B2				RET		11.4
	W127P	Common Oak	19	720	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	40+	A2				RET		8.6
	W127Q	Common Oak	19	840	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	40+	A2				RET		10.1
	W127R	Common Oak	19	710	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		8.5
	W127S	Common Oak	19	1000	8	8	8	8.0	2-SW	2	M	Good	Tag 0049. Pronounced buttress roots. Evidence of storm damage recorded within crown. Frayed wounds to north east.	No works presently required	40+	A2				RET		12.0
	W127T	Beech	19	720	7	7	7	7.0	1-SE	4	M	Good	Co-dominant stems from approximately 4m. Compression fork, however, natural bracing above.	No works presently required	20+	B2				RET		8.6
	W127U	Common Oak	19	680	5	5	5	5.0	2.5-NW	10	M	Fair	Tag 1612. Dieback and large diameter dead wood in crown. Desiccated white rot present.	No works presently required	40+	A2				RET		8.2

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	W127V	Common Oak	19	930	14	12	8	12.0	6-E	6	M	Fair	Tag 0051. Evidence of storm damage recorded within upper crown. Large diameter branches failed and hung-up. Moderate ivy encroachment on main stem and into crown. Moderate diameter dead wood in lower and middle crown.	No works presently required	40+	A2				RET		11.2
	W127W	Common Oak	19	520	8	8	8	8.0	9-W	12	M	Fair	Tag 0052. Co-dominant stems from approximately 6m. Union appears sound. Small to moderate diameter dead wood in upper crown.	No works presently required	20+	B2				RET		6.2
	W127X	Common Oak	19	750	7	4	7	8.0	5-W	4	M	Fair to good	Moderate ivy encroachment on main stem. Co-dominant stems from approximately 4m.	No works presently required	40+	A2				REM		9.0
	W127Y	Common Oak	19	1000	9	9	9	9.0	N/A		M	Fair	Storm damage. Unoccluded wounds. Desiccated white rot. Small to moderate diameter dead wood in lower and middle crown	No works presently required	40+	A2				REM		12.0
	W128	Oak, Sweet Chestnut, Birch, holly	19	500	7	7	7	7.0	N/A	0	SM to M	Good	Broadleaf dominated woodland. Oak abundant as standards. Occasional sweet chestnut and birch. understorey of occasional holly and yew.	No works presently required	40+	A2				PRO	79,928 m2 trees to be removed	6.0
	W128A	Common Oak	19	550	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.6
	W128B	Common Oak	19	400	6	6	6	6.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		4.8
	W128C	Common Oak	19	640	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128. Sweet chestnut to south, elongated basal wound.	No works presently required	20+	B2				RET		7.7
	W128D	Common Oak	19	540	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.5
	W128E	Common Oak	19	640	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.7
	W128F	Common Oak	19	350	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		4.2
	W128G	Common Oak	19	550	7.5	7.5	7.5	7.5	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.6

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	W128H	Common Oak	19	580	7.5	7.5	7.5	7.5	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.0
	W128I	Common Oak	19	540	6	6	6	6.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.5
	W128J	Common Oak	19	550	6	6	6	6.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.6
	W128K	Common Oak	19	700	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		8.4
	W128L	Common Oak	19	540	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.5
	W128M	Common Oak	19	600	6	6	6	6.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.2
	W128N	Common Oak	19	600	6	6	6	6.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.2
	W128O	Common Oak	19	650	9	9	9	9.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.8
	W128P	Common Oak	19	650	9	9	9	9.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.8
	W128Q	Common Oak	19	600	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.2
	W128R	Common Oak	19	800	10	10	10	10.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		9.6
	W128S	Common Oak	19	800	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		9.6

ATKINS BASELINE - LOW RISK

		 Member of the SNC-Lavalin Group																				
Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	W128T	Common Oak	19	760	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		9.1
	W128U	Common Oak	19	680	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		8.2
	W128V	Common Oak	19	550	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.6
	W128W	Common Oak	19	540	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.5
	W128X	Common Oak	19	550	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		6.6
	W128Y	Common Oak	19	600	8	8	8	8.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		7.2
	W128Z	Common Oak	19	360;300	7	7	7	7.0	N/A	0	SM to M	Good	Part of W128.	No works presently required	20+	B2				RET		5.6
	G129	Poplar, oak and goat willow	17	350	6	6	6	6.0	N/A	3	SM	Fair	Intermittent line of trees growing approximately 1m back from woodland fence line. Poplar, oak and goat willow. Drawn stems. Leans. Allow 3m offset from fence line for root zones.	No works presently required	10+	C2				RET		4.2
	G129A	Poplar	17	200;200;200	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	10+	C2				RET		4.2
	G129B	Poplar	17	200;200;200	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	10+	C2				RET		4.2
	G129C	Poplar	17	200;200;200	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	10+	C2				RET		4.2
	G129D	Poplar	17	200;200;200	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	10+	C2				RET		4.2
	G129E	Oak	16	200;200;100;100	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	20+	B2				RET		4.2
	G129F	Birch	16	200;200;200	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	10+	C2				RET		4.2
	G129G	Oak	15	200;200;200	6	6	6	6.0	N/A	3	SM	Fair	Part of G129.	No works presently required	20+	B2				RET		4.2
	G129H	Oak	15	500	7	7	2	7.0	6-NW	4	SM	Fair	Crown suppressed to south. Hanging broken branch to north separate from woodland by existing track. Moderate ivy encroachment on main stem.	Remove hanging broken branch	20+	B2				RET		6.0
	G129I	Oak	16	450	7	7	4	7.0	4-N	4	SM	Fair	Ground compaction around tree. Small to moderate diameter dead wood in middle and lower crown.	No works presently required	20+	B2				RET		5.4
1	T130 (Tag 179)	Yew	7	250;380	4	4	4	4.0	1.5-N	0.5	EM	Fair	Growing on top of historic ditch. Co-dominant stems from approximately 500mm. Small to moderate diameter dead wood in lower and middle crown. Crown suppression.	No works presently required	20+	B2	NO	YES		REM		5.5

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	T131 (Tag 181)	Yew	6	340;340;400	5	5	5	5.0	1.5-N	0.5	EM	Fair	Growing on bank face of historic ditch. Three stems from ground level. Small to moderate diameter dead wood in lower and middle crown.	No works presently required	20+	B2	YES	YES		RET		7.5
1	T132 (Tag 177)	Yew	16	820	6	6	6	6.0	1.5-NE	0.5	M	Good	Main stem trifurcates at approximately 1.8m. Unions appear sound. Small to moderate diameter dead wood in lower crown.	No works presently required	40+	A2	NO	YES	MOD	RET		9.8
1	T133	Yew	15	600	6	6	6	6.0	N/A		M	Fair	Growing on top of historic ditch. Small to moderate diameter dead wood in lower crown.	No works presently required	40+	A2	NO	YES		RET		7.2
1	T134 (Tag 180)	Common Oak	17	280;370;150	8	2	2.5	8.0	1-N	4	EM	Fair	Three stems from approximately 200-400mm. Crown suppression to east and south. Stems growing on sweeping curve to north west.	No works presently required	20+	B2	NO	YES		RET		5.9
1	T135 (Tag 178)	Silver Birch	19	540	5	5	5	5.0	7-W	7	M	Good	Tall drawn specimen. Crown formed at height. Pronounced buttress roots.	No works presently required	20+	B2	NO	YES		REM		6.5
1	T136 (Tag 176)	Common Oak	19	460;460	5	5	6	6.0	9-N	8	EM	Good	Two stems from ground level. Potential for two separate trees. Drawn stems. Crowns formed at height. Light ivy encroachment on east stem.	No works presently required	20+	B2	YES	YES		RET		7.8
1	T137 (Tag 175)	Yew	6	450	4	4	4	4.0	N/A	0.5	EM	Dead	No live growth present at time of survey. Good saprophytic habitat value	No works presently required	20+	C3	NO	YES		REM		5.4
1	T138	Common Oak	14	370	6	4.5	6	6.0	1.8-S	2	SM	Good	Growing approximately 2m from existing hard surface ride. Occasional small diameter dead wood in lower crown.	No works presently required	20+	B1	NO	YES		RET		4.4
1	T139	Yew	8	600	5	5	5	5.0	1.8-N	1	M	Fair	Slight loss of vitality. Snapped and hanging branches. Small to moderate diameter dead wood.	No works presently required	20+	B2	NO	YES	MOD	RET		7.2
1	T140 (Tag 186)	Yew	12	550;550	6	6	6	6.0	2-N	1.5	M	Fair	Loss of vitality throughout crown. Small to large diameter dead wood present.	No works presently required	20+	B3	NO	YES	MOD	RET		9.3
1	W141 W141AA W141BB	Woodland Common Oak	6 12	150 420 360	3 6	3 6	3 6	3.0	N/A	0	Y to EM	Fair to good	Silver birch regeneration abundant. Occasional holly. Occasional Yew, Turkey Oak. Wet ditch in places. Trees set up on banks further to south. Goat willow self sown vegetation in places. W141AA & W141BB– Common Oak adjacent to existing FE turning and set down area.	No works presently required	20+	B2	NO	YES		RET		1.8 5.0 4.3
1	W141A	Silver Birch	8	150	2	2	2	2.0	N/A	0	Y-SM	Fair	Successional growth. Silver birch regeneration.	No works presently required	10+	C2	NO	YES		PRG	110M2	1.8

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	W141B	Silver Birch, goat willow	8	150	2	2	2	2.0	N/A	0	Y-SM	Fair	Successional growth. Silver birch regeneration.	No works presently required	10+	C2	NO	YES		PRG	215M2	1.8
1	W141C	Goat willow, oak, silver birch	8	300	2	2	2	2.0	N/A	0	Y-SM	Fair	Mixed self-sown group. Mutual crown suppression. Goat willow abundant	No works presently required	10+	C2	NO	YES		PRG	575M2	3.6
1	W141D	Hazel, Goat willow	8	200	2	2	2	2.0	N/A	0	Y-SM	Fair	Mixed group. Intermittent. Multi-stem hazel in places.	No works presently required	10+	C2	NO	YES		PRG	120M2	2.4
1	W141E	Goat willow	8	250	2	2	2	2.0	N/A	0	Y-SM	Fair	Mixed group, goat willow dominates	No works presently required	10+	C2	NO	YES		PRG	140M2	3.0
1	W141F	Turkey oak, goat willow	8	200	2	2	2	2.0	N/A	0	Y-SM	Fair	Mixed group. Turkey oak present.	No works presently required	10+	C2	NO	YES		PRG	765M2	2.4
1	T142 (Tag 187)	Yew	8	380;400	4	4	4	4.0	2-NW	1.5	M	Fair	Tree wind blow.			C3	NO	YES	LOW	RET		6.6
1	T143 (Tag 188)	Yew	9	740	4	3	4	4.0	4-N	1	M	Good	Multi stems from approximately 1m. Occasional small diameter dead wood in lower crown.	No works presently required	20+	B2	NO	YES	MOD	RET		8.9
1	G144A	Silver Birch	17	440	5	5	5	5.0	2.5-N	2	SM to M	Fair to good	Extensive basal decay to west. Hollowing main stem. Increased risk of structural failure.	Monolith at approximately 5m	<10	U	NO	YES		RET		5.3
1	G144B	Common Oak	17	400	5	5	5	5.0	N/A	2	SM to M	Fair to good	Part of G144.	No works presently required	20+	B2	NO	YES		RET		4.8
1	G144C	Silver Birch	17	430	4	4	4	4.0	N/A	2	SM to M	Fair to good	Part of G144.	No works presently required	20+	B2	NO	YES		RET		5.2
1	G144D	Silver Birch	17	400	4.5	4.5	4.5	4.5	N/A	2	SM to M	Fair to good	Part of G144.	No works presently required	20+	B2	NO	YES		RET		4.8
1	T145 (Tag 7)	Common Oak	16	630	8.5	8.5	8.5	8.5	2-W	4	M	Good	Occasional large diameter dead wood in lower crown. Light ivy encroachment on main stem.	No works presently required	20+	B2	YES	YES		RET		7.6
1	T146	Common Oak	16	630	10	10	10	10.0	2-W	4	M	Good	Growing on top of historic earth mound. Large crown spread. Set approximately 1.5m above level of adjacent verge.	No works presently required	40+	A2	YES	YES	LOW	RET		7.6
1	W147	A Woodland	20	1000	8	8	8	8.0	N/A	0	Y to OM	Fair to good	Silver birch abundant. Occasional oak, yew, hazel. Some multi stem Hazel . Rare ash and sweet chestnut. Some collapsed stems. Young birch regeneration.	No works presently required	40+	B2	NO	NO/YES		PRG	1730m ² trees to be removed	12.0

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	G148A (Tag 140)	Turkey Oak	18	510	7	7	7	7.0	N/A	8	EM	Good	Growing adjacent to highway verge on raised earth bank. Mutually suppressed crowns. Evidence of past branch failures. Frayed wounds remaining. High crown heights.	No works presently required	20+	B2	NO	NO		REM		6.0
1	G148B (Tag 141)	Turkey Oak	18	570	7	7	7	7.0	N/A	8	EM	Good	Growing adjacent to highway verge on raised earth bank. Mutually suppressed crowns. Evidence of past branch failures. Frayed wounds remaining. High crown heights.	No works presently required	20+	B2	NO	NO	LOW	REM		6.0
1	G148C (Tag 142)	Turkey Oak		440	7	7	7	7.0	N/A	8	EM	Good	Tree wind blown and removed. Not part of project									
1	G148D	Turkey Oak											Tree has already been felled - not related to this project									
1	G149	Hawthorn, ash, goat willow, common oak	16	600	6	6	6	6.0	N/A	0	Y to M	Fair to good	Linear group of trees and shrubs. Lapsed hedgerow. Dry deep ditch at centre. Single and multi stems recorded. Suggesting past felling and regeneration.	No works presently required	20+	C2	NO	NO		REM	1270m ² trees to be removed	7.2
1	G150A	Turkey Oak											Tree has already been felled - not related to this project									
1	G150B (Tag 143)	Common Oak	17	400;500	5	5	5	5.0	8-E	7	M	Good	Growing within highway verge. Deep dry ditch to west. Co-dominant stems from approximately 1m. Union appears sound. Stems fused above union. Moderate ivy encroachment on main stem and into crown.	No works presently required	40+	B1	NO	NO	LOW	REM		7.7
1	G150C (Tag 144)	Common Oak	16	500	6	6	6	6.0	2.5-N	5	M	Good	Pronounced basal swelling. Deep dry ditch to west. Decay entry points at old branch failures on main stem.	No works presently required	40+	B1	NO	NO		REM		6.0
1	G150D (Tag 145)	Turkey Oak	16	600	6.5	6.5	6.5	6.5	4-SE	4	M	Good	Deep dry ditch to west. Moderate ivy encroachment on main stem.	No works presently required	20+	B2	NO	NO		REM		7.2

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G151	Common oak, ash, hazel, hawthorn	18	500	6	6	6	6.0	N/A	0	Y to M	Good	Linear group of trees and shrubs. Screen function. Mutually suppressed crowns.	No works presently required	20+	B2				RET		6.0
	T152	Common Oak	19	1100	10	10	10	10.0	4-S	3	M	Fair to good	Potential old pollard. Multi stems from approximately 4m. Veteran habitat features. Frayed desiccated white rot branch wounds. Developing heartwood decay visible at large diameter wounds. Dense ivy encroachment on main stem.	No works presently required	40+	A3				RET		13.2
	T154	Common Oak	20	1250	11	11	11	11.0	3-NE	3	Vet	Good	Veteran tree. Basal cavity to east revealing hollowing main stem and decayed heartwood. Remnants of wood decay fungal bracket around cavity. Potential Ganoderma or fistulina. Pronounced buttress roots. Occasional small to moderate diameter dead wood in lower middle crown. Saprophytic wood decay fungi visible. Existing pathway to north.	PiCUS sonic tomograph to determine extent of internal decay and inform any management	40+	A3				RET		15.0
	T155	Common Oak	15	700	6	8	3	6.0	3-N	3	M	Fair	Growing within grass verge. Loss of vitality evident in east crown extents. Aligning with wood decay fungi present at base to east. Potential Ganoderma. Not clearly identifiable as its decayed.	PiCUS sonic tomograph to determine extent of internal decay and inform any management	10+	C3				RET		8.4
	G156	Common Oak	17	900	8	8	8	8.0	N/A	3	M	Good	Prominent line of oak trees. Growing within grass verge, average offset from Highclere Avenue being approximately 3m. Existing kerning and hard surface parking bays providing root barrier to growth.	No works presently required	40+	A2				RET		10.8
	T157	Common Oak	11	1300	6	6	6	6.0	4-N	3.5	Vet	Fair	Veteran. Crown extensively reduced. Dense epicormic growths regenerated. Tree works undertaken given basal decay and wood decay fungi Ganoderma spp. present. Extensive heartwood decay. Potential former pollard given crown break at 3m into multi stems.	No works presently required	40+	A3				RET		15.6
	G158	Hybrid black poplar, alder and goat willow	20	450	6	6	6	6.0	N/A	0	SM to M	Good	Informal group. Individual trees not plotted. Dense ivy encroachment on stems. Bases not accessible.	No works presently required	20+	B2				RET		5.4

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T159	Common Oak	16	800	10	4	8	10.0	3-N	1.5	M	Good	Part of line of oaks. Desiccated white rot visible at historic wounds on main stem. Pronounced reaction wood on periphery of wounds. Occasional small diameter dead wood in lower crown.	No works presently required	40+	A2				RET		9.6
	T160	Common Oak	18	1300	12	12	12	12.0	4-N	2	Vet	Good	Veteran tree. Large stem circumference. Prominent tree in group given size. Extensive hard surfacing within root zone. Potential for some root barrier to growth. Dead ivy on main stem. Dense epicormic growths.	No works presently required	40+	A3				RET		15.6
	G161	Common Oak	17	800	7	7	7	7.0	2	2.5	M-OM	Good	Pair of open-grown specimens in mown grass area; historic crown lifting.	No works presently required	40+	A2				RET		9.4
	G162	A group	8 ave.	250	4.5	4.5	4.5	4.5	0.5	0	EM	Good	Naturalistic informal group at rear of houses providing valuable screening for residents; species include goat willow, hawthorn, field maple, elm; mown grass on east side; little or no management	No works presently required	20+	B2				RET		3.0
	G163	Hybrid black poplar	14	350	4.5	4.5	4.5	4.5	2	1.5	EM	Good	2no upright poplar specimens, with shrubby goat willow adjacent	No works presently required	20+	B2				RET		4.2
	T164	Common Oak	17	740	8	8	8	8.0	2.5	2	M	Good	Open-grown specimen in mown grass area; historic crown lifting	No works presently required	40+	A2				RET		8.9
	T165	Common Oak	17	1000	11	11	11	11.0	3	3	M	Good	Open-grown specimen in mown grass area; historic crown lifting	No works presently required	40+	A2				RET		12.0
	G166	A group	6 ave.	150	4	4	4	4.0	0	0	EM	Good to fair	Unmanaged riverside shrub vegetation, hawthorn and elm	No works presently required	10+	C2				RET		1.8
	G167-A	Common Oak	18	680	7.5	7.5	7.5	7.5	4	3	M	Good	3no oak trees growing in grassed area along fence line to east of path; western tree upright, eastern tree more compact; central tree has veteran characteristics, extensive crown dieback	No works presently required	40+	B2				REM		8.2
	G167-B	Common Oak	16	740	7	7	7	7	4	3	OM	Fair	See G167-A	No works presently required	40+	B3				RET		8.9

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G167-C	Common Oak	13	540	6	6	6	6	1.5	1.5	M	Good	See G167-A	No works presently required	40+	B2				RET		6.5
	G168-A	Common Oak	15	700	6.5	6.5	6.5	6.5	2	1.5	M	Good	Pair in mown grass, 6m apart; mutual crown suppression	No works presently required	40+	B2				RET		8.4
	G168-B	Common Oak	18	900	7.5	7.5	7.5	7.5	2	1.5	M	Good	See G168-A	No works presently required	40+	B2				RET		10.8
	G169	White willow	to 20	800	10	10	10	10.0	1.5	0.5	M	Good	Large trees to east of stream; no apparent size management; occasional branch or larger limb failures likely	Size and deadwood management likely to be required if adjacent to proposed works	20+	B2				RET		9.6
	G170	A group	8 ave.	280	4	4	4	4.0	0	0	EM	Good	Unmanaged, dense shrub vegetation on both sides of stream; includes larger specimens of white and crack willow, hybrid black poplar, among lower-growing hawthorn, goat willow, etc.; high biodiversity and habitat value	Management of deadwood and occasional branch / limb failures likely to be required if adjacent to proposed works	20+	B2				PRG	78m ² trees to be removed	3.4
	G171	A group	8 ave.	250	4.5	4.5	4.5	4.5	0.5	0	EM	Good	Naturalistic informal groups at rear of houses providing valuable screening for residents; principal species goat willow; also, hawthorn, field maple, elm, bramble; mown grass on north/east sides; little or no management	No works presently required	20+	B2				RET		3.0
	T172	Common Oak	20	1200	11	11	11	11	2	2	M	Good	Open-grown tree, locally dominant	No works presently required	40+	A2				RET		14.4
	T173	Common Oak	19	1000	10	10	10	10	2	2	M	Good	Open-grown tree in mown grass area, close to path, locally dominant	No works presently required	40+	A2				REM		12.0

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T174	Common Oak	17	800	8	8	8	8	2	2	M	Good	Open-grown tree	No works presently required	40+	A2				RET		9.6
	T175	Common Oak	17	800	8	8	8	8	2	2	M	Good	Open-grown tree in mown grass area, locally dominant	No works presently required	40+	A2				RET		9.6
	G176	Ash	15	320	4.5	4.5	4.5	4.5	2	1.5	SM	Good to fair	Pair of trees in open ground on mown grass either side of footpath; crown lifting on path side; fair crown vitality	No works presently required	10+	C2				RET		3.8
	G177	A group	8 ave.	250	4	4	4	4.0	0	0	EM	Good	Unmanaged, dense shrub vegetation on both sides of stream; goat willow prominent, also hawthorn, blackthorn; occasional larger individual trees recorded separately, etc.; biodiversity and habitat value	No works presently required	20+	B2				RET		3.0
	G178	A group	8 ave.	250	4.5	4.5	4.5	4.5	0.5	0	EM	Good	Scrub vegetation with intermittent trees at rear of houses providing useful screening for residents; species include goat willow, hawthorn; individual specimens of ash and lime near Barncroft Way; much bramble; little or no management.	No works presently required	10+	C2				PRG	356m ² trees to be removed	3.0
	G179	A group	19	700 ave.	6.5	6.5	6.5	6.5	2	2	M	Good	Group of specimen trees in mown grass area with parkland feel; high amenity value; predominantly common lime with mutual crown suppression and plentiful basal growth; 1no over-mature oak with some crown dieback; younger lime and oak included in group.	Some deadwood management likely to be required if adjacent to proposed works	40+	A2				RET		8.4
	G180	Common Oak	17	800	8	8	8	8	2	2	M	Good	Trees growing at edge of streamside scrub vegetation; some mutual crown suppression.	No works presently required	40+	A2				RET		9.6
	G181	Cedar	16	500	6.5	6.5	6.5	6.5	2	2	EM	Good	2no cedars on mown grass verge, 1no blue Atlas cedar and 1no Deodar; crowns lifted; Deodar crown suppressed by adjacent holly; utilities trench runs along adjacent pavement; blue cedar at 1m from pavement, root activity pushing up surface.	No works presently required	20+	B2				RET		6.0
	G182	Lime	11	350	4	4	4	4.0	1.5	1.5	SM-EM	Good	Pair of trees growing in hedge at edge of tarmac playground area,	No works presently required	20+	B2				PRG	1no tree	4.2
	T183	Plane	19	820	9.5	9.5	9.5	9.5	3	2	M	Good	Growing by hedge at boundary of school playing field; crown lifting,	No works presently required	40+	A2				RET		9.8

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	G184	A group	to 8	to 280	3	3	3	3.0	0	0	SM	Good	Dense ornamental shrub planting, well maintained, with semi-mature trees at rear - field maple, cherry, eucalyptus; group includes pair of staked planted trees in grass area to west of vehicle turning ,	No works presently required	20+	B2				PRG	130m2 trees to be removed	3.4
	G185	A group	16	450	7	7	7	7.0	0.5	0.5	M	Fair to poor	4no trees to south of railway line at edge of field subject to seasonal mowing; one tree displaying poor vitality, with significant deadwood in straggling crown; mutual crown suppression,	Inspection required to determine management requirements if adjacent to proposed works	10+	C2				PRG	146m2 trees to be removed	5.4
	G186	Goat willow	7	300	4.5	4.5	4.5	4.5	0	0	EM	Good	Shrubby vegetation on both sides of footbridge over stream; some cherry,	No works presently required	20+	B2				PRG	98m2 trees to be removed	3.6
	T187	Common lime	18	800	7.5	7.5	7.5	7.5	2	2	M	Good	On small mown green among housing - high amenity value; some dieback in eastern crown; cut back from telegraph pole to north-east, no other size management apparent,	No works presently required	40+	A2				RET		9.6
	G188	Hornbeam	17	440	5	5	5	5.0	2.5	3	M	Good	High crown lifted, 6no stems at 2m spacings forming dense canopy,	No works presently required	20+	B2				RET		5.3
1	G189	Norway maple	to 16	460	7	7	7	7.0	2.5	2	M	Good	Pair of trees on broad mown grass area between roads; foliage of large-crowned northern tree mostly at crown extents,	No works presently required	20+	B2				RET		5.5
1	G190	A group	7	300	4	4	4	4	0.5	0.5	EM-M	Good	Small trees with mostly shrubby form 'dotted' around grassland in reservoir area; principally hawthorn and goat willow; some compaction of ground at base by animals seeking shade	No works presently required	20+	B2				PRG	21no trees	3.6
	W191	Corsican pine	19	300	3.5	3.5	3.5	3.5	4	4	EM	Good	Partially thinned plantation with bramble understorey	No works presently required	20+	B2				PRG	22,357 m2 trees to be removed	3.6
	T192	Common oak	19	1000	9.5	9.5	9.5	9.5	2	2	M	Good	Imposing specimen growing to west of small watercourse	No works presently required	40+	A2				RET		12.0
	G193	A group	8	7	4	4	4	4	0.5	0.5	EM	Good to fair	Mostly shrubby vegetation along small watercourse, goat willow prominent; punctuated by high quality mature oak trees, some recorded individually,	No works presently required	20+	B2				PRG	245m2 trees to be removed	0.1

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
	T194	Common oak	19	1100	10	10	10	10	2.5	2	M	Good	Open-grown tree in mown grass area	No works presently required	40+	A2				RET		13.2
1	G198	A group	14 ave.	350 ave.	6.5	6.5	6.5	6.5	2	2	SM-M	Good	Mixed trees and shrubs growing along narrow strip between vehicle track and edge of wood - more prominent trees recorded separately; wood boundary earthwork running along length of group; oak and yew dominant species; occasional birch, beech, rowan; branches cut back from track, G195A - area of Goat Willow scrub.	No works presently required	20+	B2	NO	YES		PRG	85m ² trees to be removed	4.2
	T196	Red oak	17	800	8	8	8	8	2.5	2.5	M	Good	Prominent tree with good form and amenity value, in mown grass area at side of community centre car park; slight crown sparsity	No works presently required	20+	B2				RET		9.6
	W197	A woodland	20	450	4	4	4	4	1	1	SM-M	Good	Coniferous plantation woodland, pockets of broadleaf woodland	No works presently required	20+	B2				PRG	8,158 m ² trees to be removed	5.4
1	Tag 126	Common Oak	17	480	6	6	5	3			SM	Good	2m from road edge. Crown lifted	No works presently required	20+	B2	NO	NO		REM		5.8
1	Tag 127	Common Oak	17	490	5	7	2	5		3	EM		2m from road edge. Main stem trifurcates at approximately 2.5m.	No works presently required	20+	B2	NO	NO		REM		5.9
1	Tag 128	Common Oak	17	460	6	8	5	6.0		4	EM		4m from road edge. Crown break at approximately 4m. Unoccluded wounds on main stem	No works presently required	20+	B2	NO	NO	LOW	REM		5.5
1	Tag 129	Turkey Oak	16	490	6	6	5	6		7	EM		1.5m from road edge. Yew and holly in root zone.	No works presently required	20+	B2	NO	NO		REM		5.9
1	Tag 130	Common Oak	17	910	8	9	9	9.0		3	M	Good	DBH @800mm. Lowest lateral branch failed to west. Occasional moderate diameter dead wood in middle crown. Onset of decay visible at old branch wounds.	No works presently required	20+	B2	NO	NO	MOD	REM		10.9
1	Tag 131	Yew	5	260	4	3	3.5	4		1.5	Y		2m from road edge. Bark scuff on main stem.	No works presently required	10+	C2	NO	NO		REM		3.1
1	Tag 132	Ash	18	650	6	8	8	9.0		8	M		6m from road edge. Pronounced buttress roots. High crown height.	No works presently required	20+	B2	NO	NO		REM		7.8

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	Tag 133	Common Oak	12	540	5	9	4	3		4	EM		3m from road edge. Co-dominant stems from approximately 3m. Union appears sound. Curved main stem. Crown previously lifted.	No works presently required	20+	B2	NO	NO		REM		6.5
1	Tag 134	Common Oak	18	440	4	5	7	7.0		2	SM	Good	3m from road edge. Co-dominant stems in upper crown. Union appears sound.	No works presently required	20+	B2	NO	NO		REM		5.3
1	Tag 135	Common Oak	18	460	6	6	5	5		6	SM		2m from road edge. Growing on raised mound. Crown lifted.	No works presently required	20+	B2	NO	NO		REM		5.5
1	Tag 136	Turkey Oak	16	260	3	3	2	3.0		5	Y	Good	3.2m from road edge. Upright habit. Drawn form.		10+	C2	NO	NO		REM		3.1
1	Tag 137	Common Oak	18	350	3	5	3	4			SM		1.3m from road edge. Growing on raised mound. Slight curved main stem. Young yew and Turkey oak to west. Main stem trifurcates at approximately 7m. Unions appear sound	No works presently required	20+	B2	NO	NO		REM		4.2
1	Tag 138	Common Oak	17	400	5	7	3	5.0		3	SM	Fair	1m from manhole cover. Dead ivy on main stem. Growing on raised mound.	No works presently required	20+	B2	NO	NO		REM		4.8
1	Tag 139	Common Oak	14	460	6	4	3	6		4	EM	Fair	1.5m from road edge. Loss of vitality in upper crown. Small to moderate diameter dead wood present. Crown previously lifted. Curved stems in middle crown.	Remove moderate diameter dead wood in crown	10+	C2	NO	NO		REM		5.5
1	Tag 146	Common Oak	16	420	4.5	5	5	6.0		3	EM	Good	2m from road edge. Growing on east side of drainage ditch. Light ivy encroachment on main stem.	No works presently required	20+	B2	NO	NO		REM		5.0
1	Tag 147	Common Oak	14	490	5	5	4	6		4	EM	Fair	2m from road edge. Light ivy encroachment on main stem and into crown. Crown break at approximately 4m. Growing on east side of drainage ditch.	No works presently required	20+	B2	NO	NO	LOW	REM		5.9
1	Tag 148	Turkey Oak	15	450	4	5	6	5.0		3	EM	Fair	2.7m from road edge. Growing on east side of drainage ditch. Light ivy encroachment on main stem and into crown. Small to moderate diameter dead wood in lower and middle crown.	Remove moderate diameter dead wood in crown	20+	B2	NO	NO		REM		5.4
1	Tag 149	Common Oak	15	590	4	6	5	7		2	EM	Fair	2.5m from manhole. Growing on east side of drainage ditch. Light ivy encroachment on main stem and into crown. Pronounced scaffold branch to east. Epicormic growths at base.		20+	B2	NO	NO		REM		7.1

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Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	Tag 150	Common Oak	17	780	8	11	10	8.0		4	M	Good	2.5m from road edge. Growing east side of drainage ditch. Co-dominant stems from approximately 3m. Union appears sound. Light ivy encroachment on main stem and into crown. Occasional moderate diameter dead wood in middle crown.	No works presently required	40+	A2	NO	NO	LOW	REM		9.4
1	Tag 151	Common Oak	16	920	7	8	7	7		3	M	Good	2.2m from road edge. DBH @ 200mm. Growing east side of drainage ditch. Co-dominant stems from approximately 1m. Union appears sound. Moderate ivy encroachment on main stem and into crown. Occasional moderate diameter dead wood in middle crown.	No works presently required	20+	B2	NO	NO	LOW	REM		11.0
1	Tag 152	Common Oak	17	700	6	7	5	6.0		3	M		1.6m from road edge. Growing east side of drainage ditch. Dense ivy encroachment on main stem and into crown. Co-dominant stems from approximately 2m. Union appears sound. Rubbing branches in crown.	No works presently required	40+	A2	NO	NO	LOW	REM		8.4
1	Tag 153	Common Oak	14	590;520;500	8	8	12	10		5	M	Fair	2.3m from road edge. Three stems from close to ground level. Natural bracing in crown. Moderate ivy encroachment on stems.	No works presently required	40+	A2	NO	NO - in existing road foot print		RET		11.2
1	Tag 154	Turkey Oak	18	820	6	8	8	8.0		4	M	Good	DBH @500mm. 1.2m from road edge. Moderate ivy encroachment on main stem. Co-dominant stems from approximately 1.5m. Union appears sound. Drawn stems.	No works presently required	20+	B2	NO	NO - in existing road foot print		RET		9.8
1	Tag 155	Common Oak	16	560	7	9	3	8		4	EM	Fair	DBH @500mm. 1.8m from road edge. Co-dominant stems from approximately 2.5m. Union appears sound. Basal stems established to east. Curved stems. Moderate diameter dead wood in middle and upper crown.	No works presently required	20+	B2	NO	NO - in existing road foot print		RET		6.7
1	Tag 156	Turkey Oak	18	480	3	10	6	5.0		8	EM	Fair	1.7m from road edge. Drawn stem. High crown height.	No works presently required	20+	B2	NO	NO - in existing road foot print		RET		5.8
1	Tag 157	Turkey Oak	18	500	5	9	3	5		6	EM	Good	1.7m from road edge. Drawn stem. Light ivy encroachment on main stem.	No works presently required	20+	B2	NO	NO - in existing road foot print		RET		6.0
1	Tag 158	Turkey Oak	18	660	7	5	9	6.0		6	M	Good	1.7m from road edge. Co-dominant stems from approximately 1.5m. Compression fork with included bark union. Not significant at present. Drawn stems.	No works presently required	10+	C2	NO	NO - in existing road foot print		RET		7.9
1	Tag 159	Silver Birch	12	310	4					6	EM	Fair	Co-dominant stems in upper crown. Union appears sound. Light ivy encroachment on main stem.	No works presently required	10+	C2	NO	NO		REM		3.7

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1	Tag 160	Silver Birch	14	310;280;130	5	5	3	3.0		4	M	Good	Three stems from ground level. Mutual crown suppression. Light ivy encroachment on north stem.	No works presently required	20+	B2	NO	NO		RET		5.3
1	Tag 161	Common Oak	17	480	8	6	8	6		6	EM	Good	Sound buttressing. Light ivy encroachment on main stem. Epicormic growths on main stem.	No works presently required	20+	B2	NO	NO		REM		5.8
1	Tag 162	Silver Birch	18	370	6	5	6	4.0		10	M	Fair	Pronounced buttress root development. Curved main stem. High crown height	No works presently required	20+	B2	NO	NO		RET		4.4
1	Tag 163	Silver Birch	18	390	5	7	4	5		6	M	Fair	Dense ivy encroachment on main stem. High crown height. Pronounced buttress roots.	No works presently required	20+	B2	NO	NO		RET		4.7
1	Tag 164	Silver Birch	17	360	4	4	6	7.0		8	M	Fair	Dense ivy on main stem. Pronounced buttress roots. High crown height.	No works presently required	20+	B2	NO	NO		RET		4.3
1	Tag 165	Silver Birch	18	350	6	4	6	6		6	M	Fair	Pronounced buttress roots. High crown height. Light ivy encroachment on main stem.	No works presently required	20+	B2	NO	NO		RET		4.2
1	Tag 166	Silver Birch	18	380	5	4	5	5.0		8	M	Fair	Light ivy encroachment on main stem. High crown height. Pronounced buttress roots.	No works presently required	20+	B2	NO	NO		RET		4.6
1	Tag 167	Yew	7	710	6					1	M	Fair to good	Low crown height. Ribs of reaction wood on main stem. 1.6m multi stem form.	No works presently required	20+	B2	NO	NO		RET		8.5
1	Tag 168	Silver Birch	18	360	6	5	3	5.0		8	EM	Good	Basal cavity to north. Aerial buttress roots. High crown height.	No works presently required	10+	C2	NO	NO		RET		4.3
1	Tag 169	Silver Birch	18	370	5	5	4	5		6	EM	Good	Localised depression to south. High crown height.	No works presently required	20+	B2	NO	NO		RET		4.4
1	Tag 170	Silver Birch	17	380	4	4	4	4.0		6	EM	Good	Light ivy encroachment. High crown height.	No works presently required	20+	B2	NO	NO		RET		4.6
1	Tag 171	Silver Birch	18	360						6	EM	Fair	Curved main stem. Potential past root heave. No recent root movement noted.	No works presently required	10+	C2	NO	NO		RET		4.3
1	Tag 172	Silver Birch	17	370	4	4	6	6.0		6	EM	Fair	Curved main stem. Pronounced buttress roots. Moderate ivy encroachment on main stem.	No works presently required	20+	B2	NO	NO		RET		4.4
1	Tag 173	Silver Birch	17	410	7	5	6	6		4	M	Good	Co-dominant stems from approximately 4m. Union appears sound. Pronounced buttress roots. Moderate ivy encroachment on main stem and into crown.	No works presently required	20+	B2	NO	NO		RET		4.9
1	Tag 174	Common Oak	16	340	5	6	7	3.0		4	SM	Fair	Curved main stem. Fallen tree in root zone to east	No works presently required	10+	C2	NO	NO		RET		4.1
1	Tag 182	Silver Birch	16	400	5	3	7	4		6	M	Good	Growing on raised mound. Co-dominant stems at approximately 6m. Union appears sound.	No works presently required	20+	B2	YES	YES		RET		4.8
1	Tag 183	Silver Birch	18	440	6	4	4	3.0		10	M	Fair	High crown height. Further trees in root zone.	No works presently required	20+	B2	NO	YES		REM		5.3
1	Tag 185	Yew	5.5	420	3.5	3.5	3.5	3.5		1.5	EM	Fair	DBH @1.2m. Loss of vitality. Crown suppressed by adjacent trees.	No works presently required	10+	C2	YES	YES		RET		5.0

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	Tag 189	Common Oak	10	410	5	7	5	0.0		2	SM	Good	Crown suppressed to west. Low crown height over existing access track.	Crown lift to required height	20+	B2	YES	YES		RET		4.9
1	Tag 191	Yew	5	640	5	3	3	5		1.5	EM	Fair	Low crown height. DBH @ 100mm. Multi stem from 400mm. Crown dominated towards access track.	No works presently required	20+	B1	NO	YES		RET		7.7
1	Tag 194	Yew	7	600	4	4	3	4.0		1.5	M	Fair	DBH 600mm @ base. Loss of vitality, moderate diameter dead wood in lower crown. Sunlight suppression.	No works presently required	20+	B1	YES	YES		RET		7.2
1	Tag 195	Turkey Oak	8	400	5	3.5	6.5	5.5		3	SM	Fair	Basal wound at old stem failure. Raised buttress roots.	No works presently required	10+	C2	YES	YES		REM		4.8
1	Tag 197	Turkey Oak	16	430;370	4	10	4	10.0		4	EM	Good	Growing atop of earth mound. Co-dominant stems from base.	Crown lift over access road.	20+	B2	YES	YES		RET		6.8
1	Tag 198	Common Oak	14	500	3	8	6	8		3	M	Good	Mutual crown suppression. Tree growing atop of earth mound.	Crown lift over access road to required height	20+	B2	YES	YES		RET		6.0
1	Tag 1	Beech	14	470	5	8	4	4.0		2	EM	Good	Growing at toe of existing earth mound. Low crown height over existing access track.	Crown lift/reduce over existing access track	20+	B2	YES	YES		RET		5.6
1	Tag 5	Silver Birch	14	350	3	4	4	3		4	EM	Good	Mutual crown suppression. Growing 600mm below base of existing access track.	No works presently required	20+	B2	NO	YES		RET		4.2
1	Tag 6	Silver Birch	15	360	4	6	4	6.0		5	EM	Good	Part of group of 3no. Trees. Drainage ditch to west.	No works presently required	20+	B2	NO	YES		RET		4.3
1	Tag 9	Yew	5.5	390;330	6	6	6	6		1.5	EM	Good	Growing at toe of earth mound.	No works presently required	20+	B2	NO	YES		RET		6.1
1	Tag 10	Turkey Oak	16	370;190	6	9	6	5.0		3	SM	Good	Co-dominant stems from base.	No works presently required	10+	C2	YES	YES		RET		5.0
1	Tag 11	Turkey Oak	16	340;320	3	9	9.5	0		3	SM	Good	Co-dominant stems from approximately 1m. Compression fork with included bark union	No works presently required	10+	C2	YES	YES		RET		5.6
1	Tag 14	Turkey Oak	12	280;280;240	6	4	6	6.0		4	SM	Good	Three stems from approximately 600mm. Compression forks with included bark	No works presently required	10+	C2	NO	YES		RET		5.6
1	Tag 15	Turkey Oak	16	460	6	5	6	7		5	SM	Fair	Growing on edge of wood. Light ivy encroachment	No works presently required	20+	B2	NO	YES		RET		5.5
1	G198	Mixed	to 17	to 500	4	4	4	4.0	N/A	1	Y-M	Fair to good	Mixed boundary group. Growing offset from existing forestry track. Existing earth mounds in situ. Likely to have impacted root development.	No works presently required	20+	B2	YES PH1-38NO. PH2-30NO. PH3-20NO. PH4-22NO. PN5-30NO.	YES		RET		6.0

ATKINS BASELINE - LOW RISK

Phase	Tree ID	Species	Height (m)	Stem Dia (mm)	Branch sp'd N (m)	Branch sp'd E (m)	Branch sp'd S (m)	Branch sp'd W (m)	1st significant branch ht (m)	Canopy height (m)	Life Stage	Vitality	General observations	Preliminary management recommendations	Est'd Remaining Contribution (Yrs)	Cat Grading	Crown lift to 5.4m or as instructed on site	No-dig (Cellweb)	Bat potential High / Moderate / Low / blank	Remove/Part Remove/Retain	Quantities for removal	RPA Radius (m)
1	G199	Mixed	to 18	to 500	6	6	6	6	N/A	0	Y-M	Fair to good	Part of linear group growing along B2149. Tree positions plotting along road edge. No obvious direct damage recorded to road surface from surface root activity.	No works presently required	20+	B2	NO	NO - in existing road foot print		RET		5.5
1	G200	Silver birch	6	90	1	1	1	1.0	N/A	0	Y	Fair	Successional growth, dense stand of young birch.	No works presently required	10+	C2	NO	YES		PRG	400m ² trees to be removed	1.1

Appendix B. Tree Protection Plans

(provided separately)

Appendix C. Tree Monitoring Pro-forma

C.1. Tree monitoring pro-forma

Job number:			
Document ref:			
Revision:			
Purpose description:			
Originated:			
Checked:			
Authorised:			
Date:			
Notice:			

Purpose of Monitoring Visit

□

Date of Visit

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Observations

□

Recommended Actions

□

Relevant Photographs

Number	Photograph	Description