Streamstown Local Area Plan Fingal County Council Appendices

Adopted April 2009



Comhairle Contae Fhine Gall Fingal County Council

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Appendix 1 Summary of Submissions Received

Local Area Plan Pre-Draft Consultation and Submissions Received

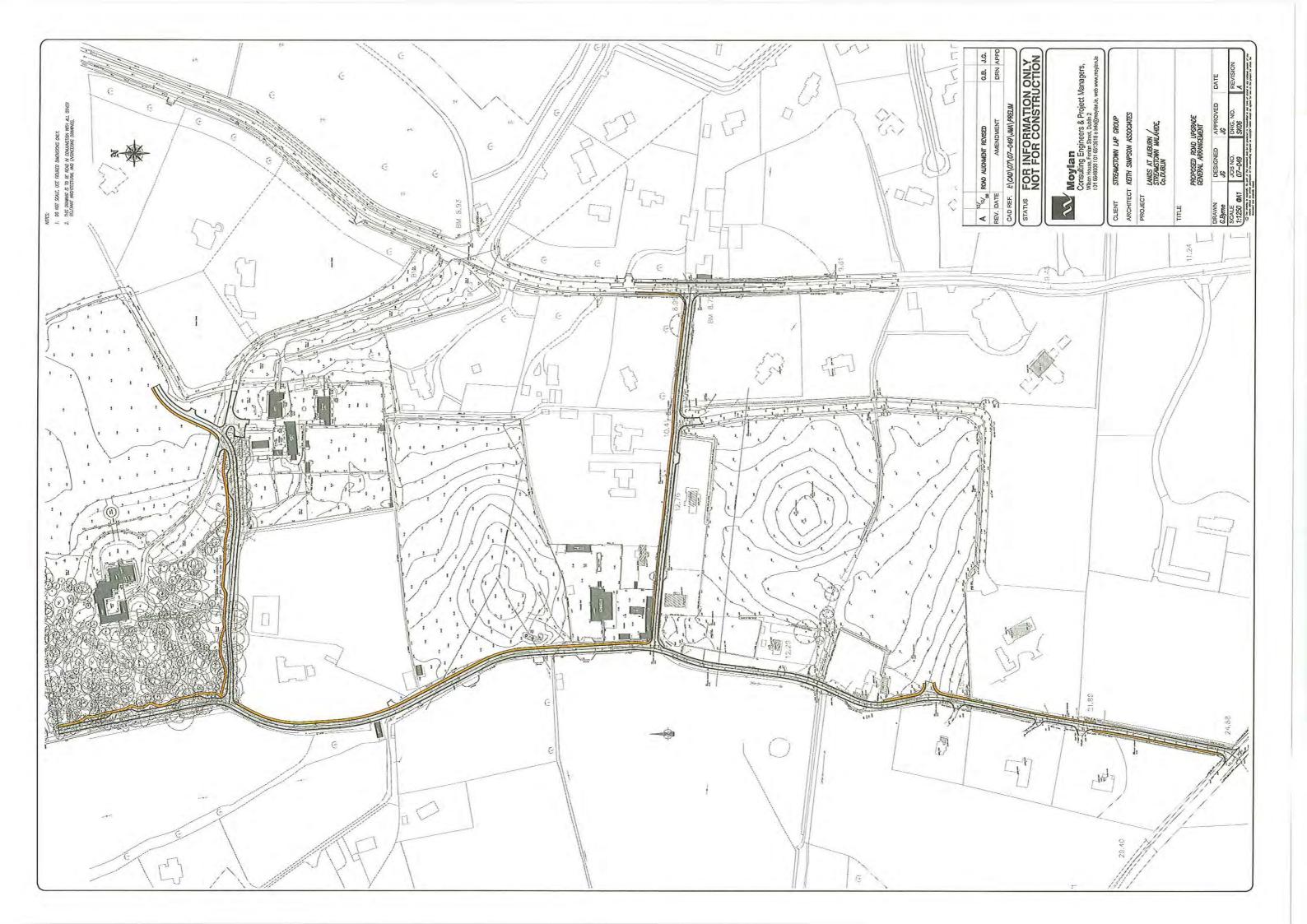
A Pre-Draft Public Consultation period took place prior to the publication of the Draft Streamstown Local Area Plan. This is a non-statutory process, and is at the discretion of the local authority. An advertisement announcing the consultation was published in local newspapers on the 19th September 2007. The closing date for receipt of submissions and observations was 31st October 2007. Eight submissions were received and the following briefly outlines the main issues raised;

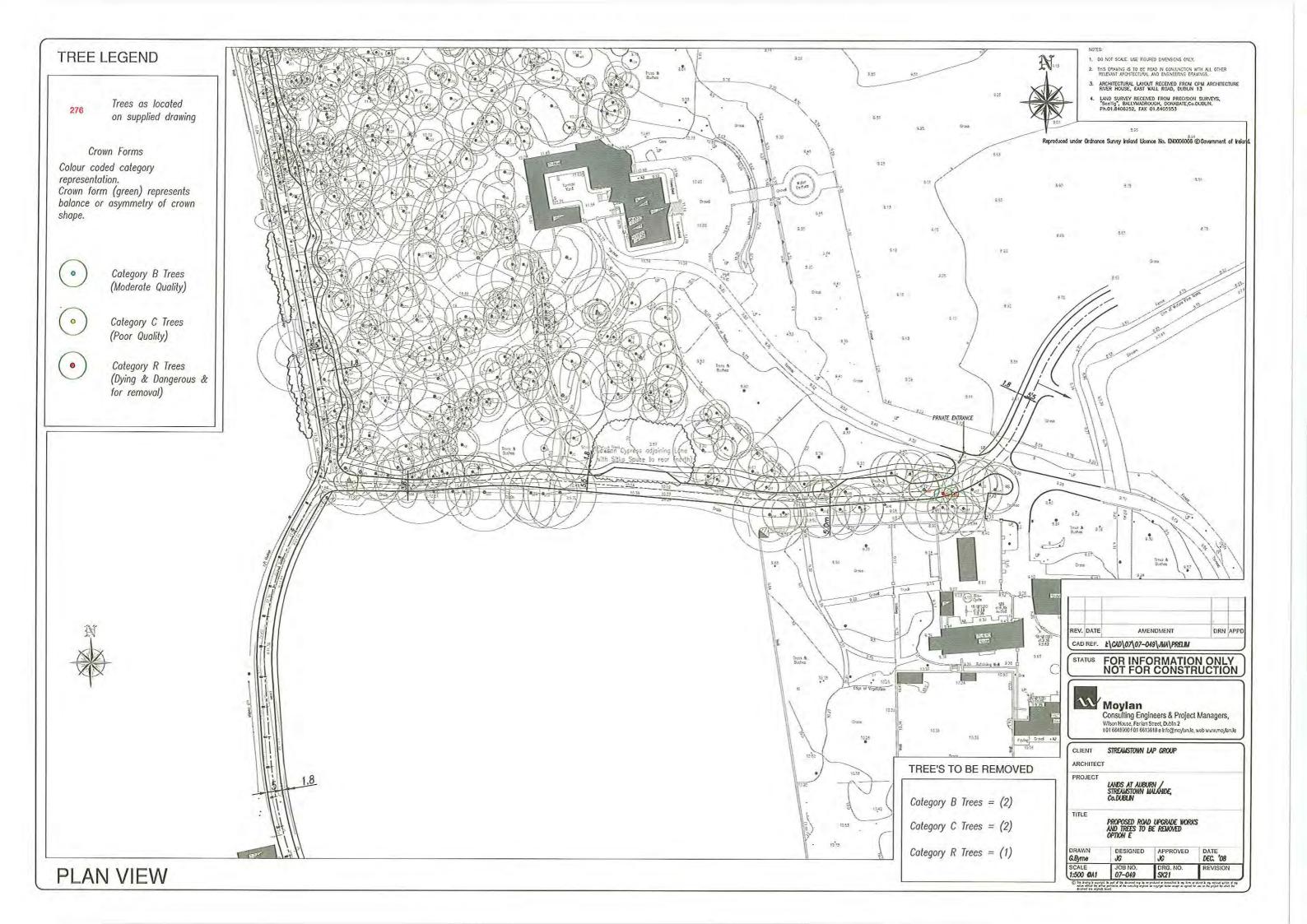
- The upgrading of the local road network including new footpaths etc and implications for traffic flows on the Dublin Road – new roads servicing the lands should be located sensitively;
- Closing Streamstown Lane to through traffic should be considered, along with a priority junction 'third lane' on the Malahide Road to facilitate right turning traffic onto Streamstown Lane;
- Safe cycle and pedestrian routes to local schools, clubs and train station, including new crossing facility for cyclists and pedestrians on the Malahide Road at the corner of Malahide Castle Demesne connecting with the Local Area Plan lands and to the Swords Road beyond;
- Possibility of gas supply to the Local Area Plan lands;
- Protect and enhance existing trees, hedgerows and natural amenities, including the trees running from Streamstown Lane to the Swords Road;
- Protect the existing residential properties and their amenity;
- Preserve Auburn House and its curtilage;
- Need for a small neighbourhood centre including shop and crèche in the area;
- Improvements needed to Streamstown Lane, including making Streamstown Lane one way and providing lighting along it;
- Provision of foul water, drainage and public water infrastructure drainage plan required;
- Need to provide for future residential expansion to lands west of the Local Area Plan lands;
- Density should be restricted to 10 units per hectare throughout the Local Area Plan area;
- Density should be restricted to 3 units per acre;
- Will the foul sewer system be upgraded and extended to Streamstown?;

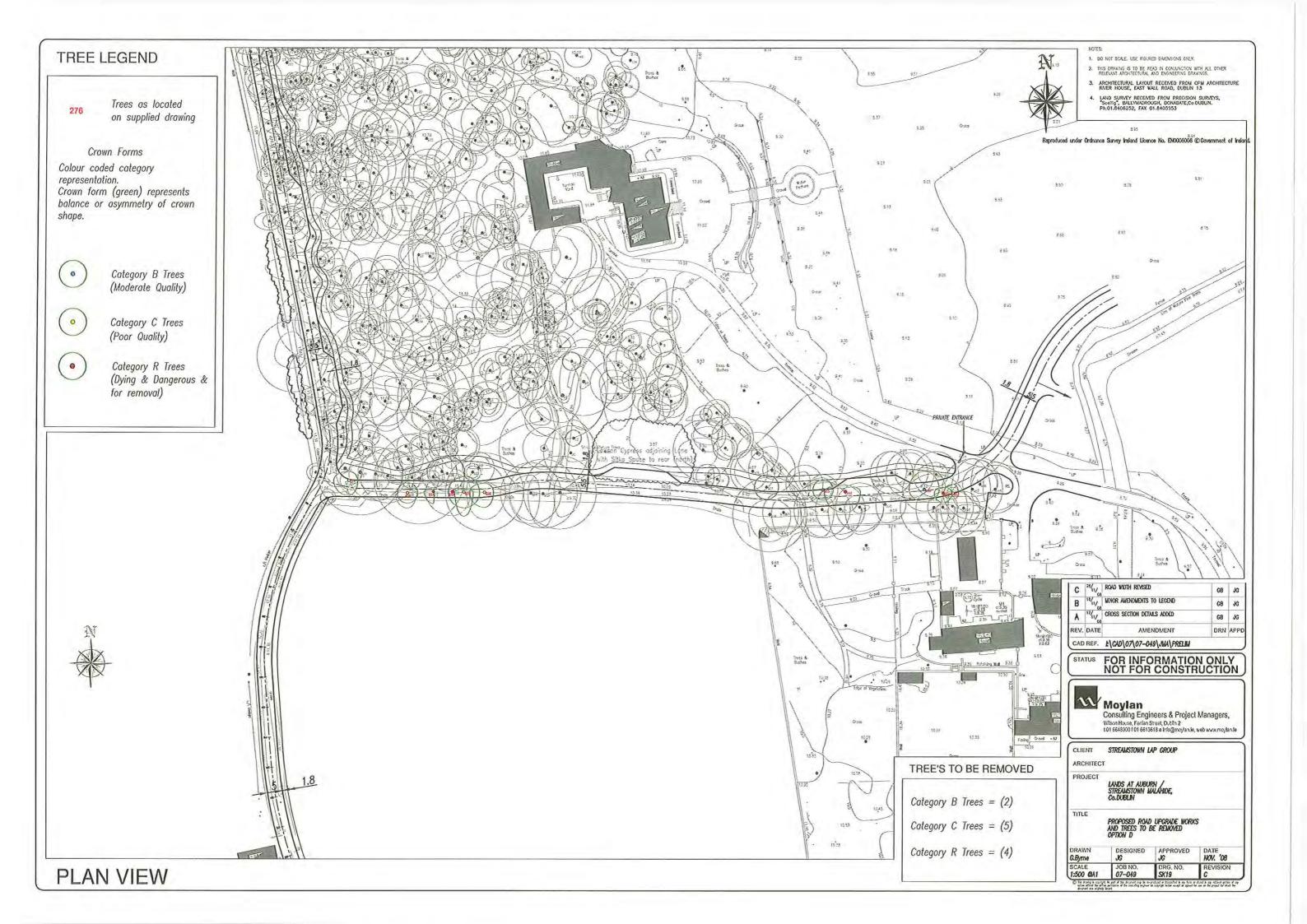
- Lack of small scale office developments, crèches and retirement living in the area;
- Tree planting should be 'conditioned' within new developments;
- Road safety an important issue, in particular on Streamstown Lane there is a need to add pathways, road resurfacing, new kerbs, removal of dangerous bends, widening of the roadway, improve the road surface and road signage.
- Speed bumps are required between Feltrim Road and Malahide Road;
- · Planting important to retain character of the area'
- Sites should be development as small stand-alone clusters with large dwellings overlooking children's play areas and with a variety of housing types.
- · Large interconnecting housing developments should be avoided;
- · More fire hydrants required in the area
- Encourage landscaped and safe children's play areas and sufficiently spaced housing with a variety of types and designs.

These submissions have been fully considered in preparing this Local Area Plan and have informed this final draft document.

Appendix 2 Details of Access Route to Auburn Lands







Appendix 3 SEA Screening Report

Streamstown Local Area Plan

Screening Report for submission to:

Environmental Protection Agency,

Department of Environment, Heritage and Local Government

and

The Department of Communications, Marine and Natural Resources

Prepared by Planning Dept., Fingal County Council, Swords. August 2007

Strategic Environmental Assessment – Screening

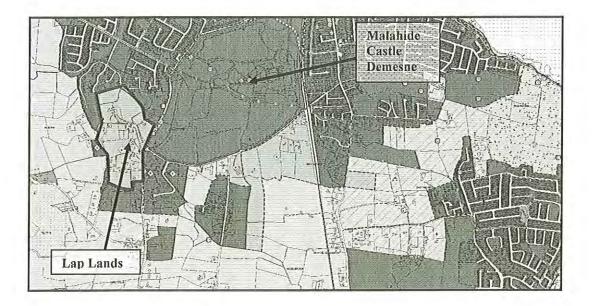
Report pursuant to the Planning and Development (Strategic Environmental Assessment) Regulations 2004.

1.0 Introduction:

The Strategic Environmental Assessment Planning Guidelines 2004 states that 'screening' of Plans is required in the case of Local Area Plans where the population is less than 10,000 persons. 'Screening' is the process for deciding whether a particular plan other than those for which SEA is mandatory, would be likely to have significant environmental affects, and would thus warrant SEA. It is the intention of the Planning Authority to prepare a Local Area Plan for the lands at Streamstown, which would have a population below the 10,000 persons threshold. The purpose of this report is to screen the subject lands to determine whether the Local Area Plan requires a Strategic Environmental Assessment.

2.0 Site Location:

The Plan lands are located in the south western environs of Malahide, c. 1.5 km southwest of the town centre, immediately west of Malahide Castle Demesne (see Map no. 1 below). The subject lands, the topography of which is generally flat, comprise three primary land uses, namely agricultural, residential and commercial. The area of the LAP lands is c. 63.3 acres (c. 25.61 hectares). The lands are bound to the north by existing residential properties, to the east by a public road, to the west by agricultural land and residential development and the south by existing residential units.



Map no. 1: Site Location

3.0 Policy Context:

The Streamstown Local Area Plan was designated in the Fingal Development Plan, 2005-2011. The subject lands are governed with the following specific objectives:

- The Fingal Development Plan 2005 provides that the LAP area is intended to provide for new residential communities in accordance with approved local area plan and subject to the provision of social and physical infrastructure.
- It is a specific objective of the 2005 Development Plan to provide for residential development in the LAP at a density of 10 units per hectare.
- There are a number of protected trees on the land.
- Auburn House, out-offices and pigeon loft, located on the lands, are identified as protected structures in the 2005-2011 County Development Plan.

4.0 Characteristics of the Local Area Plan:

The lands the subject of this LAP are already identified for development in the Fingal Development Plan 2005-2011 by way of the aforementioned objectives under Section 3 above. It is envisaged that the LAP will establish a land-use framework for the sustainable development of the area in a co-ordinated and coherent manner. The retention of the protected trees and protected structures (and curtilage) will be a primary facet of the LAP. Furthermore, it will be an objective of the LAP to ensure any new development will be sympathetic to the setting and character of the protected structures on site. Land uses anticipated within the LAP include primarily for the provision of residential units, open space and childcare facilities.

5.0 Criteria for determining the likely significant environmental impacts:

Schedule 2A of the Planning and Development Regulations 2001 sets out the criteria for determining the likely significance environmental effects of the Plan. The following section of the report will assess the Local Area Plan against the criteria set out in Schedule 2A.

5.1 Characteristics of the Local Area Plan, having regard to:.

The degree to which the LAP sets a framework for projects and other activities, either with regard to the location, nature, size and operating conditions or by allocating resources.

The LAP, having regard to site specific Development Plan objectives, will set a broad framework for the development of the primarily greenfield lands. The main characteristics of the LAP are to retain the protected trees and protected structures and to develop the lands for low density residential development, sympathetic to the protected structures.

The Streamstown Local Area Plan was designated in the Fingal Development Plan, 2005-2011. The subject lands are governed with the following specific objectives:

- The Fingal Development Plan 2005 provides that the LAP area is intended to provide for new residential communities in accordance with approved local area plan and subject to the provision of social and physical infrastructure.
- It is a specific objective of the 2005 Development Plan to provide for residential development in the LAP at a density of 10 units per hectare.
- There are a number of protected trees on the land.
- Auburn House, out-offices and pigeon loft, located on the lands, are identified as protected structures in the 2005-2011 County Development Plan.

The LAP will adhere to the aforementioned objectives.

The degree to which the LAP influences other plans or programmes including those in the hierarchy.

It is considered that the LAP will influence positively the 2005-2011 County Development Plan, as it is a requirement of the 2005 Plan to prepare a LAP for the lands and the LAP will adhere to all site specific Development Plan objectives.

The relevance of the LAP for the integration of environmental considerations in particular with the view of promoting sustainable development.

The lands are zoned primarily for residential development in the 2005-2011 Fingal County Development Plan. The purpose of preparing a Local Area Plan for the lands is to establish a landuse framework for the sustainable development of the area in a co-ordinated and coherent manner prior to the lands being developed. The Local Area Plan will conform to the principles, objectives and policies of the Fingal Development Plan and therefore have a strong emphasis on promoting the sustainable development of the area.

Environmental problems relevant to the LAP.

The c. 63.30 acre site comprises three primary land uses, namely agricultural, residential and commercial, with no particular special environmental designation. The site does not form part of any proposed Natural Heritage Area, Special Area of Conservation or other similar designated area. There are no recorded monuments or Zone of Archaeological Importance located within the site. There are a number of recorded monument located a short distance from the LAP lands. Therefore, archaeological monitoring within the LAP lands will be required at planning application stage. There are no protected views or prospects listed on site in the Development Plan.

There are a number of protected structures located within the Plan area, namely Auburn house and ancillary structures. These protected structures will be retained in the LAP. Furthermore, it will be an objective of the LAP to ensure any new development will be sympathetic to the setting and character of the protected structures on site. Fingal County Council Conservation Officer has designated a curtilage associated with the protected structures, within which development will be significantly curtailed.

There are a number of trees listed for protection on the lands. The LAP will have a strong emphasis on the retention of the protected trees.

It is noteworthy that the Malahide Castle Demesne, a designated Architectural Conservation Area (ACA) and sensitive landscape, is located to the east of the LAP lands. The Demesne contains a number of protected structures, recorded monuments and protected trees. The 2005 County Development Plan, under Section 8.2, requires that any new development is not detrimental to the character or setting of the ACA. A primary consideration of the adjacent LAP will be to ensure that any new development will be sympathetic to the ACA. Consultation with Fingal County Council's Conservation Office will take place in the preparation of the LAP. The Planning Authority is satisfied that the lands can be developed is a manner sympathetic to the ACA, given that the lands are physically separated by a public road and that it is a specific objective of the 2005 Development Plan to provide for residential development in the LAP at a low density of 10 units per hectare. Furthermore, strong landscaping exists between the Castle lands and LAP lands, which will greatly assist in acting as a visual buffer.

The development of the LAP lands will result in the creation of additional traffic levels in the area. However, the traffic levels generated will be limited due to the density restriction referred to earlier. The Planning Authority is satisfied that the traffic levels accruing will not generate strategic environmental issues.

The relevance of the LAP for the implementation of Community legislation on the environment (e.g. plans and programmes linked to waste management or water protection).

The Planning Authority considers that the LAP is not considered of any significant relevance in this regard.

5.2 <u>Characteristics of the effects and of the area likely to be affected by the proposed LAP:</u>

The probability, duration, frequency and reversibility of the effects.

It is considered that there will be no significant negative effects of a strategic nature upon the implementation of the LAP. It is expected that the effects will be permanent and irreversible.

The cumulative nature of the effects.

No notable cumulative negative effects are anticipated given the scale and nature of the LAP.

The transboundary nature of the effects.

It is not anticipated that the Plan will have any national, regional or inter-county transboundary effects.

The risk to human health and the environment.

The implementation of the Local Area Plan is not likely to result in any risks to human health or the environment. The nature of the development on site, i.e. residential, is not considered a high risk land-use. Also of note is that the lands are fully serviced and located within walking distance of the town centre, thus, minimising risk to human health and environment.

The magnitude and special extent of the effects (geographical area and size of the population likely to be effected).

The effects are considered localised only i.e. the LAP lands and immediate environs.

The value and vulnerability of the area likely to be affected due to:

a) Special natural characteristics or cultural heritage.

The c. 63.30 acre site comprises three primary land uses, namely agricultural, residential and commercial with no particular special environmental designation. The site does not form part of any proposed Natural Heritage Area, Special Area of Conservation or other similar designated area. There are no recorded monuments or Zone of Archaeological Importance located within the site. There are a number of recorded monument located a short distance from the LAP lands. Therefore, archaeological monitoring within the LAP lands will be required at planning application stage. There are no protected views or prospects listed on site in the Development Plan.

There are a number of protected structures located within the Plan area, namely Auburn house and ancillary structures. These protected structures will be retained in the LAP. Furthermore, it will be an objective of the LAP to ensure any new development will be sympathetic to the setting and character of the protected structures on site. Fingal County Council Conservation Officer has designated a curtilage associated with the protected structures, within which development will be significantly curtailed.

There are a number of trees listed for protection on the lands. The LAP will have a strong emphasis on the retention of the protected trees.

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primary consideration of the adjacent LAP will be to ensure that any new development will be sympathetic to the ACA. Consultation with Fingal County Council's Conservation Office will take place in the preparation of the LAP. The Planning Authority is satisfied that the lands can be developed is a manner sympathetic to the ACA, given that the lands are physically separated by a public road and that it is a specific objective of the 2005 Development Plan to provide for residential development in the LAP at a low density of 10 units per hectare. Furthermore, strong landscaping exists between the Castle lands and LAP lands, which will greatly assist in acting as a visual buffer.

b) exceeded environmental quality standards or limit value.

It is anticipated that environmental quality standards will not be exceeded and that the value of the area will not be limited as a result of the LAP implementation.

c) intensive land use.

The LAP will ensure that the development of this area for residential development is undertaken with due cognisance to its surrounding environment, which could be categorised as low-intensity. Specific objective of the 2005 Development Plan to provide for residential development in the LAP at a low density of 10 units per hectare will ensure an appropriate intensive land-use.

Effects on areas or landscapes, which have a recognised national, community or internal protection status.

As noted above, there are no features within the Plan boundary which have a recognised European and international protection status.

6.0 Conclusion:

The Planning Authority is satisfied that the Local Area Plan will ensure that the lands will be developed in a sustainable and environmentally sound manner and in accordance with the 2005-2011 County Development Plan. A primary facet of the Local Area Plan is to preserve the protected structures (and associated curtilage) and protected trees on the lands. The Planning Authority is satisfied that the development will not have a strategic environmental effect on the area, having regard in particular to the findings of Section 5 above. In view of the foregoing, it is considered that a Strategic Environmental Assessment is not required in respect of the Streamstown Local Area Plan.

Appendix 4 AA Screening Report

Streamstown Local Area Plan

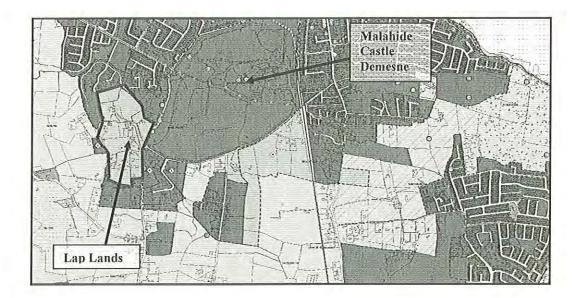
Appropriate Assessment Screening in accordance with Article 6 of the Habitats Directive

1.0 Introduction

European Directive (92/43/EEC) on the Conservation of Natural Habitats and Wild Flora and Fauna (known as the Habitats Directive) protects habitats and species of European nature conservation purpose. The Habitats Directive establishes a network of sites designated for their ecological protection. These are referred to as Natura 2000 sites or European sites, normally called Special Areas of Conservation (SACs) and Special Protection Areas (SPAs). Article 6 of the Habitats Directive requires any draft land use plan (development plans, local area plans, regional planning guidelines, schemes for strategic development zones) or amendment/variation to it proposed under the Planning and Development Act 2000 (as amended) to be screened for any potential impact on areas designated as Natura 2000 sites. The purpose of this report is to screen the Streamstown Local Area Plan to assess the potential impacts on Natura 2000 sites.

2.0 Description of Proposed Streamstown Local Area Plan (LAP)

The Plan lands are located in the south eastern environs of Malahide, c. 1.5 km south of the town centre (see Map no. 1), immediately west of Malahide Castle Demesne and comprise of approximately 63.3 acres (c. 25.61 hectares) of agricultural and residential land. The LAP, having regard to site specific Fingal Development Plan 2005 - 2011 objectives, will set a broad framework for the development of the primarily greenfield lands. The main characteristics of the LAP are to develop the lands primarily for low density residential development. It is a specific objective of the 2005 Fingal Development Plan to provide for residential development on the LAP lands at a density of 10 units per hectare.



Map no. 1: Site Location

3.0 Natura 2000 Sites

There are no Natura 2000 sites on the Plan lands. There are two Natura 2000 sites located a short distance from the Plan lands, namely Malahide Estuary and Baldoyle Estuary. The following sub sections give a brief description of each area.

3.1 Malahide Estuary

The Malahide Estuary is located approximately 1.3km north of Streamstown. Malahide Estuary is designated in accordance under the EU Birds Directive, EU Habitats Directive, the Wildlife (Amendment) Act 2000 and the Ramsar Convention.

Malahide Estuary is internationally important for both light-bellied Brent Geese and Black-Tailed Godwit and has nationally important numbers of a further twelve species. The significance of these classifications is that any threat to the habitats of these species could have consequences for either the all-Ireland or international populations of these birds, depending on the species affected.

Site Name	Designated Areas	Basis
Malahide	Special Protection Area	EU Birds Directive
Estuary	Candidate Special Area of Conservation	EU Habitats Directive
	Proposed Natural Heritage	Wildlife (Amendment)
	Area	Act, 2000
	Ramsar site	Ramsar Convention
Designated area	Sub-sites	Principal Habitat types
Malahide	Broadmeadow Estuary	Mudflats, lagoon, saltmarsh
Estuary	Outer Malahide estuary	Mudflats, sandflats, saltmarsh
	Corballis to Malahide	Sand dunes, saltmarsh, sandy
	Island	beach

3.2 Baldoyle Estuary

Baldoyle Estuary is located approximately 3.5km south east of Streamstown. Baldoyle Estuary is designated in accordance under the EU Birds Directive, EU Habitats Directive, the Wildlife (Amendment) Act 2000 and the Ramsar Convention. Baldoyle is a tidal estuarine bay protected from the open sea by a large sand dune system. Two small rivers, the Mayne and the Sluice, flow into the inner part of the estuary. Large areas of intertidal flats are exposed at low tide.

Site Name	Designated Areas	Basis
Baldoyle	Special Protection Area	EU Birds Directive
Estuary	Candidate Special Area of	EU Habitats Directive
	Conservation	
	Natural Heritage Area	Wildlife (Amendment) Act, 2000
	Statutory Nature Reserve	Wildlife Acts, 1976 and 2000
	Proposed Candidate Special Area of Conservation	EU Habitats Directive
	Ramsar site	Ramsar Convention

4.0 Screening Assessment of potential impacts

The following table assesses the key areas of sensitivity in relation to Malahide Estuary and Baldoyle Estuary.

Description of Plan	Streamstown Local Area Plan	
Habitat Loss & Fragmentation of Site/Species	It is not anticipated that the Streamstown LAP will result in any loss or fragmentation of site/species given (a) its location and distance c. 1.3km from Malahide Estuary and c. 3.5km from Baldoyle Estuary (b) the land use type proposed and (c) the limited scale of development vis a vis density restriction.	
Quality of Water in Sluice and Mayne Rivers	Appropriate measures will be implemented to ensure water quality in the Rivers in not adversely impacted upon.	
Quantity of water flowing into the Estuaries	The Streamstown LAP will not result in any reduction in water quality flowing into the Malahide or Baldoyle Estuaries as SUDS will apply.	
Capacity of SWWTP	Sufficient capacity to cater for the subject lands.	
Disturbance of Key Species	There is no anticipated disturbance to key species within the estuaries.	
Noise	There is no anticipated noise impact on the estuaries.	
Air Pollution	There is no anticipated air pollution impact on the estuaries.	
Construction Impact	There is not anticipated impact due to the distance of Streamstown to the estuaries.	
Physical changes that will flow from plan/project	There is no anticipated impact on the estuaries in terms of physical changes which will flow from the LAP.	
Transportation Requirements	Internal roads, footpaths and cycle ways.	
Plan Implementation Period	2009-2015.	
Cumulative Impacts with other Plans/Projects	No notable cumulative negative effects are anticipated, with particular regard given to the proposed Broomfield Local Area Plan.	
Land Take	N/A.	
Climate Change	There is no anticipated impact on the climate.	

define the structure/function of site	There will be no impact on the key relationships that define the structure/function of site due to the location and distance of Streamstown to the estuaries.
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On the basis of the above assessment, it is the opinion of Fingal County Council that the proposed Local Area Plan to which this screening relates is

- i. not directly connected with or necessary to the management of the site, and
- ii. not likely to have a significant effect on a European site (in combination with other plans or projects).

Accordingly an appropriate assessment is not required

Appendix 5 Report on Trees Options Considered and Tree Survey (Treeforce Ltd.)

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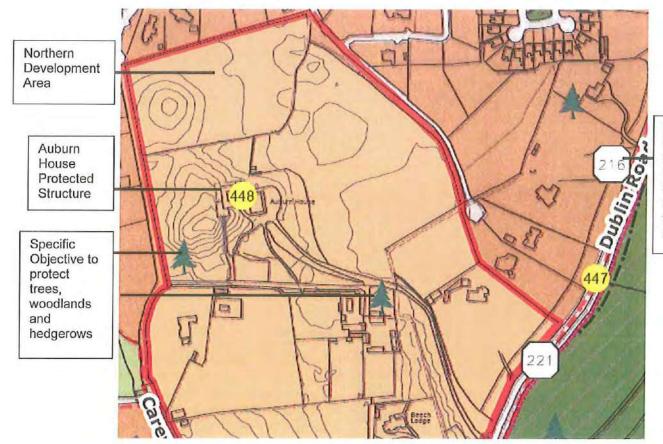
Introduction

Prior to the indicative layout illustrated within this Local Area Plan being investigated, the quality of the trees across the lands was assessed.

At the initial baseline technical stage of the Local Area Plan's preparation during 2007, a full arboricultural (tree) survey was undertaken by Treeforce, a firm of qualified arboriculturalists in relation to the trees to the rear and south of Auburn House.

These trees across the lands subject of this Local Area Plan are extremely important in the context of the overall site. The entire lands covered by this docuement, including Auburn House and the copse of trees to the rear, are zoned for residential use under the RS1 zoning. However, on commencement of the project, it was determined that the significant trees on site would require to be retained in any future development of the overall lands. In particular the trees to the rear of Auburn House form an essential element to be retained.

The importance of these trees is recognised in the current Fingal Development Plan which seeks to protect the trees to the rear of Auburn House:



Local Objective to preserve the treelined approach to Malahide

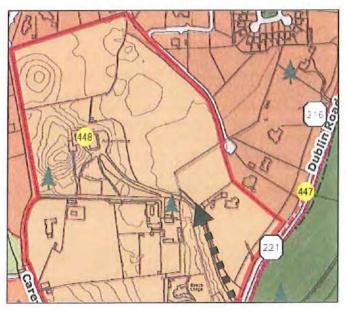
Fingal Development Plan 2005-2011 excerpt.

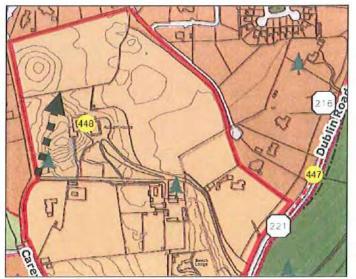
The Northern Development Area

Following this tree survey and throughout 2008, several options have been robustly explored in relation to gaining an access to the northern development area, directly to the north of Auburn House. These are outlined below:

Route Directly from Malahide Road

The first option which was explored is an access directly from the Malahide Road to the east of the site, along the driveway towards Auburn House and to the south of the house, before running northwards towards the northern development area. This option was discounted at an early stage due to the quality of the trees lining Malahide Road. The quality of these trees is recognised in the current Development Plan, which seeks to protect these trees via a local objective (number 216), as shown above.



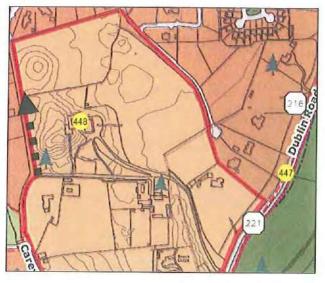


Route through centre of the copse of trees to rear of Auburn House

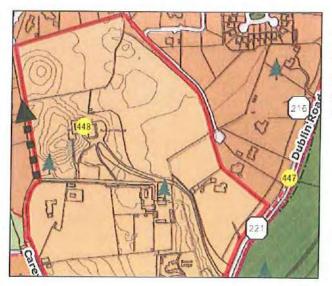
Subsequent to the completion of the tree survey, the option of pursuing a route though the centre of the copse of trees to the rear of Auburn was explored. Whilst this would have resulted in a relatively low number of trees being removed, having taken expert advice on the issue, it was considered that the segregation of the copse into two separate elements would have reduced the overall arboricultural value of the tree grouping.

Vehicular Access Route at western edge of Auburn House copse

This route follows a route along the western edge of the copse of trees, as shown below. This option seeks to reduce the impact on the entire group of trees outlined in the above option by selecting a route along the edge of the copse. In order to reduce the impact on the trees as much as possible, it was considered that a single lane access would be appropriate, with 'pull ins' or laybys at appropriate locations along the route to enable safe passing. These laybys would have the effect of making the single track wider and were proposed at locations were a lower number of trees would have to be removed, and trees of lower quality.



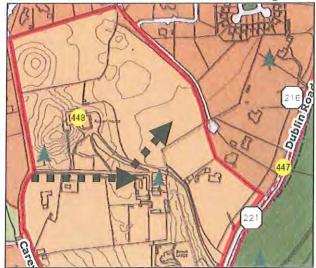
The associated pedestrian footpath would meander alongside the road and comprise a gravel pathway rather than a tarmacadam or paved finish. The route of the track is also proposed to 'wind' through the trees so as not to adversely impact upon them. It was considered that there could still be considerable tree loss with this option which has been discounted at the current time.



Route Along Existing Lane to Rear of Auburn House

This route is discounted due to the third party ownership of this laneway and its location outside the boundary of the Local Area Plan.

Favoured Option



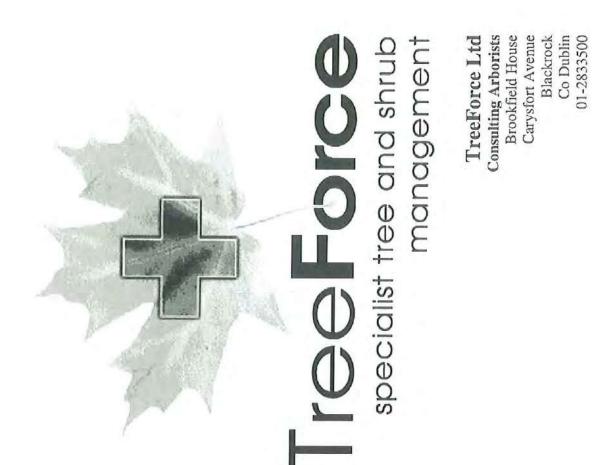
Vehicular Access route at southern edge of Auburn House copse

This route was proposed as it was considered among the options using the Local Area Plan lands only, fewer trees would need to be removed than with the above options. It involves a route along the edge of the copse of trees although to the south. This would be a single track, and with pull ins or lay-bys. The route would then be carefully routed to the front of Auburn House and into the Northern Development Area seeking to restrict any adverse impact on Auburn House.

This favoured option results in the removal of a total of nine (9) trees:

one category B tree, four category C trees and four category R trees. No category A trees require removal. Of the total of nine trees, four are of poor quality and four are indicated within the tree survey as requiring removal.

The proposed access route, as indicated on the Moylan drawings in Appendix 2, has a standard road width of 5.5 metres, and incorporates two pinch points, where the road narrows to 5 metres to accommodate two further trees. Should the road width be retained at a width of 5.5 metres, two additional trees would need to be removed, one category B and one category C.



Tree Survey Investigation of Woodlands at Auburn House

Auburn House Malahide Co Dublin

June 2007

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-1-

INTRODUCTION

The survey has been prepared by-Andy Worsnop **TreeForce Ltd Brookfield House** Carysfort Avenue Blackrock Co Dublin

Introduction

The survey has been compiled by Mr Andrew Worsnop who gained his NCH (Arbor) in 1983. From that time he accrued 5 years practical Arboricultural experience and from 1988, undertook all aspects of report writing. Tree Survey compilation and litigation work for Southern Tree Surgeons (Irl) Ltd and for The F.A. Bartlett Tree Expert Co (Ireland) Ltd subsequent to their takeover of Southern Tree Surgeons in 1996. Since May of 2002, he has bee responsible for all such works undertaken by TreeForce Ltd.

commissions have also included Implication studies in regard to national developments (Road Network), the compilation and submission of information to Public Enquiries as well as An Bord specific development or the creation of a tree survey as a basis for the management of a specified tree population (Publicly accessible garden, Estates, Stud Farms etc). In addition to the above, Work experience pertaining to this report would include the compilation and submission of Tree Surveys on behalf of numerous developers in a greater proportion of the states counties. Such Tree Surveys have typically taken 1 of 3 forms. A simple Tree Survey without regard to a particular development, an Arboricultural Implication Study, i.e. reviewing the site with regard to a Pleanala hearings. Work has also required the review of sites and compilation of reports with regard to legal argument (and insurance assessment etc) and has included the presentation of evidence in both the Circuit and High Courts.

Survey Brief

TreeForce Ltd was instructed

to undertake a "Tree Survey" of the woodland area to the north, west and south of Auburn House.

The intention of this report is to assess the tree population of specific areas of the Auburn house woodland with the intention of identifying potential impacts and affects as may be asserted by the proposed development of new access roads.

The report concentrates on the boundary fringes of the Auburn house woodland. In particular, two areas, currently supporting laneway have to be reviewed including the laneway orientated in approximately east and west, commencing at its eastern end adjoining the entrance and to Bellevue and Auburn Lodge and terminating at its western end with the western boundary of the overall Auburn house site as it adjoins the newly developed Abington site.
These second zone includes the pre-existing laneway area running along the western boundary of the Auburn house woodland block, commencing at the western end of the first laneway mentioned above and continuing in a northerly direction to the north-western corner of the Auburn house woodland block.
In light of investigations regarding the potential development of vehicular access routes about or within the woodland, the survey has been divided into zones.
In light of the fact that a pre-existing thoroughfares exist adjoining the woodland, it has been assumed from the outset that such thoroughfares will attain preference for use. As such, trees directly adjoining this thoroughfare have been dealt with on a tree by tree basis.
Elsewhere, and in appreciation of the fact that the woodland exists as a cohesive unit, the woodland has been described en masse by way of a woodland survey.
Woodland survey
The woodland in question is generally square of shape notwithstanding an indentation on its eastern side providing the location for Auburn house.
The woodland has well defined boundaries as provided by the access and vehicular parking area to the cast of the house, a land drainage ditch to the north of the woodland and pre-existing vehicular access tracks to both the west and south of the woodland.
Additional note is made of secondary paths that traverse the woodland, in a generally north south orientation, the western most path existing as little more than a footpath however the easternmost track appears to have sustained intensive historical usage and exists in conjunction with a retaining wall and appears to support a gravelled, vehicular bearing surface.
The woodland
The woodland is dominated by mature trees. League woodland upper storey supports a variety of species including Beech, Sycamore, Ash, Horse Chestnut, Oak, lime, and Wych Elm. Most trees can be regarded as being mature with the majority having attained an apparent age circa 100 years. In light of the preponderance of Chestnut, Beech, Oak and lime, it is envisaged that the woodland was planted as a plantation and is of non-natural origin.
Notwithstanding the average age profile of the mature trees, note has been made of a small number of particularly large specimens. It is envisaged that such specimens may attained ages in

Survey Summary and Findings

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The middle-upper storey is dominated by what appears to be natural regeneration. This story of the woodland tends to be dominated by Ash. Sycamore and Wych Elm together with two notable softwood plantations. This element of the woodland supports trees typically in the 10 to 40 year age profile. These are suspected to be adventitious in origin assuming natural regeneration possibly subsequent to harvesting and timber extraction or because of natural loss.
The lower the mid-story is dominated by Holly and Cherry Laurel. Such specimens rarely exceed 10.00 m and though intermittent and variable, tend to provide a continuous under-story thicket.
Lower story and herbaceous material tends to comprise natural regeneration of the tree species mentioned above together with substantial Ivy cover of the lower levels. Note is made that Ivy penetration throughout the woodland serves to stifle more diverse herbaceous growth though note is made of firms and Bramble in some areas.
Current Woodland Structure
At present, the woodland tends to be of a good structure in as much as it supports a great diversity of tree ages and sizes. Some concerns exist regarding the remnant mature tree population in that its diminution with time will see the exacerbated exposure of individuals thereby predisposing them to higher risks of impromptu failure. Whilst such failure should be regarded as natural and in general terms unavoidable, some degree of management may be of benefit as such tree failure not only presents a physical risk of injury and damage to local infrastructure but can also be devastating to the otherwise naturally regenerating woodland under story and younger plant specimens.
Note has been made of the extent of natural regeneration within the woodland structure. At this time, and in light of a degree of seedling survival, it is envisaged that the woodland will survive and continue without planting intervention. Attention is however drawn to the fact that Ash, Sycamore and Wych Elm the dominant species and therefore, should there be a preference towards the woodland profile and species proportions associated with the original planting scheme then, some degree of intervention would be required. Such intervention would typically involve the culling of less favoured species, possibly Ash and Sycamore and the augmentation of the original tree population by planting such species such as Oak, lime, Horse Chestnut and Beech.
Without such intervention, it is envisaged that the next 5 to 10 decades is likely to result in a substantial species shift within the woodland at that time becoming dominated by the Sycamore, Ash and Elm. Whilst this may not prove to be problematic, due consideration should be given to the predisposition of the Elms to Dutch Elm disease thereby suggesting a distinct likelihood that the woodland will become dominated by Ash and Sycamore alone.
Woodland Management
The management of the woodland must be advised by intended use.
Impromptu and occasional social usage may allow for minimal intervention as a result of reduced safety related risks and concerns. If however the woodland is envisaged to gain higher degrees of use in the future then, the woodland must be managed for safety. Such safety would typically be according to zone, that requiring that areas of the usage, possibly the path and thoroughfares be identified with regard to potential falling range by neighbouring trees, such zones being monitored and managed as required.
Equally, areas attaining minimal usage or at substantial ranges from such areas or elements of infrastructure may require only cursory review and minimal intervention.
In light of the intent of this report, it is envisaged that such zones may apply in the future to the pre-existing access roads, footpaths and of course, trees existing within falling range of the existing house and infrastructure to the eastern side of the woodland.
Southern Laneway
The southern laneway exists as a wooded glade between the adjoining house entrance is and its junction with and ancillary Lane running north south. The existing track appears to be substantially compacted and currently supports a gravel surface. Note is made that the southern side of the track becomes raised to a level of some 250 mm 300 mm above track level for
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approximately 3.00 m where upon it descends to a water bearing on ditch estimated to be some 400 me millimetres below track level. This southern side of the track supports an intermittent tree population on both sides of the described ditch together with substantial thicket redevelopment dominated by Hawthorn, Holly, Wych Elm, Ash, Privet, Ivy and Bramble. Notwithstanding the continuity of cover pertaining to these smaller specimens, most individuals would be regarded as being of poor form, being suppressed and comprising general thicket undergrowth as opposed to any specimen status. Note is however made that of the larger tree population, the dominant species is Ash as defined within the survey table.
The northern side of the track he is notably and variable commencing at its eastern end with a substantially open woodland-like effect dominated by Chestnut, Beech and Sycamore.
Prior to attaining the intersection with the lane running north, note is made of a substantial plantation of early mature Lawson Cypress who was a linear alignment confirms artificial planting.
The western portion of the first track is defined by to existing gates. This area relates specifically to the naturalised woodland block.
In continuation with the first portion of this lane, note is made that the track, embankment and southern side ditch remain, however at this point, the ditch appears to have attained greater depths, possibly some 600 mm below laying levels. The southern side of the track is dominated by a disbursed group of large Beech together with a smaller number of early mature specimens. The northern side of the track is again dominated by the Beech with a smaller number of Ash within the population.
The southern side of the track, presumably because of suppression, supports a diminished thicket level population typically dominated by Holly and Wych Elm together with Ivy. The northern side of the track supports a greater population of Holly creating a generally impenetrable thicket beneath the canopies of typically mature Ash with a smaller number of Sycamores.
Western Boundary
In keeping with the southern lane, note is made that the western boundary lane supports a substantial previously gravelled track. The western side of the track is defined by a variable embankment as sending to some 200 mm up to 500 mm above laying levels. Approximately 2.50 m west of the current lane edge, there exists, a substantial ditch that at the time of inspection appeared to be dry and descends to in excess of 500 mm below laying level. The tree population in this area tends to arise from the embankment between the lane edges and ditch, however a small number of trees arise from the adjoining property to the west of the ditch. The tree population is notably variable, dominated by a small number of mature trees, typically Sycamore with more general continuity being provided by younger sapling and early mature specimens of Ash, Wych Elm and a vestigial hedge alignment currently dominated by suppressed Holly and Hawthorn.
A note has been made that the northern 50% of this boundary appears to have been subsumed into the adjoining Abington development and currently supports a wire panel fence alignment positioned approximately centrally upon the earthen embankment. The latter 50 m of the alignment, prior to attaining the terminus of the woodland block, now supports a twin rail supported planting alignment including a close-knit plantations of Beech and Hawthorn currently attaining little in excess of 2.00 m.
The eastern side of the lane effectively comprises the western fringe of the Auburn House woodland block. In keeping with the western side of the lane, the eastern side is also defined by a notable ditch commencing at approximately 2.00 m east of the current Lane edge and descending to levels in excess of 750 mm below laying levels. The margin between the lane and ditch edge currently supports minimal vegetation beyond scrub up form but does support a notable population of Holly, Wych Elm, Sycamore and Ash saplings. The dominant vegetation in this area arises in positions to the east of the ditch alignment, this comprising the principal woodland specimens including Oak, Beech, Sycamore and Ash over a generally continuous under-story dominated by Holly.
Potential Environmental Impacts
The intention to develop a vehicular thoroughfare through the woodland area raised a number of concerns that must be addressed if damage and repercussions are to be minimised.
The principal direct impact concerns would be twofold, relating the effect the completed structures would have upon existing trees as well as the effect that the construction processes will incur.
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Relating to the above, many construction techniques require the excision of ground space by excavation that will result in damage and loss of tree root material	
Regardless of the nature of the completed structure, its construction may require the use of heavy plant and machinery that can cause ground compaction.	
Indirectly, concern would relate to the holistic effects that development might have upon the woodland. Such concerns would include fragmentation and exposure that may require that retained trees be evaluated regarding potential ill-effects in light of the change of woodland usage, because of the access created.	at may require that retain
<u>Design of Thoroughfares</u> Mitigation of Damage and Impact	
The successful completion of the intended project will require the co-ordination of construction methodologies and materials. In particular, a "No Dig" policy should be incorporated wherever possible and only rescinded where other specific methodologies intended to minimise negative tree impacts are employed.	l be incorporated whereve
It is advised that the project be divided into at least three separate facets, including the construction of the vehicular access road surface, the provision of services to the site and access to undertake all works required.	the site and access to
It is understood that alternative methodologies exist for the creation of vehicle bearing surfaces. Attention is drawn to the use of "cellular confinement systems" whereby drainage, porosity and breath-ability can be maintained whilst at the same time creating a stable and load bearing surface.	reby drainage, porosity ar
For your own information, attention would be drawn to such proprietary systems as produced by "Terram" and "Cellweb".	
Such systems are typically installed on the surface thereby requiring some raising-up of final surfaces. Such factors should be borne in mind during the design stage.	
Attention is also drawn to the fact that specific procedures are to be adopted during the construction phase effectively requiring a pre-protection programme during installation whereby the completion of the preceding section provides instant vehicular access to the next section of work.	nstallation whereby the
Whilst the incorporation of such methodologies allows for vehicular access to positions within the "Root Protection Area" of trees, it must nonetheless be appreciated that tree protection is still required. Where unprotected ground exists within the root protection areas of trees, such ground must be protected from ancillary construction related activities by the erection of "construction exclusion zone" fencing.	d that tree protection is st the erection of "construction
The provision of services to the site may prove to be problematic in that it is assumed that the proposed combined services will require that underground installation is involved.	is involved.
Notwithstanding a preliminary recommendation towards the routing of such services through areas that will not impact trees, attention is drawn to the recommendations and methodologies set our in the document "NJUG10" (National Joint Utilities Group - Recommendations for the installation and maintenance of underground services near trees).	ons and methodologies se

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Design Recommendations
The findings of this tree survey have been set out on a tree-by-tree basis within the survey schedule in Appendix 1 of this document.
It is advised that all category "R" trees are considered for removal prior to any development, as most are defective or of such poor quality as to render then unsuitable for retention. The possibility exists that a category "R" tree may be retained though this would typically be conservation related and must bear in mind any safety related issues as may attach to such retention.
In light of the above, it is suggested that all category "R" trees be considered for removal including – 889, 893, 898, 900, 911, 930, 931, 940, 945, 950, 951, 960, 7, 10, 11, 26, 49, 62, 117, 118, 126, 138, 139, 143, 144, 145, 146, 152, 158, 179, 185, 189, 189, 209, 223, 224, 230, 235, 242, 252, 296 and 312.
Category "C" trees should be regarded as being of low quality and whilst retention may be desirable, such specimens should not be regarded as being of a quality or longevity enough to act as a constraint to development. Category "C" trees might be considered suitable for short-term or interim retention, dependant upon retention context, for example to provide for continuity of cover during the establishment of new planting. Such trees may however require notable and regular maintenance and may be ill-suited to retention in areas of high usage or occupancy and therefore only suitable for retention within larger open spaces.
It is recommended that caution should be exercised regarding the potential retention of all trees but particularly category "C" trees, retention being reviewed within the context of an "Arboricultural Implication Assessment" (AIA) when the full extent of site development is understood. Whilst the retention of trees may be desirable, it must be appreciated that such retention must be subject to regular review, monitoring and maintenance as required.
All remaining trees on site, subject to the findings of the "AIA" and the provision of adequate protection in accordance with Table 2, BS5837: 2005 (see below) and subject to site context, may prove suitable for retention. Such an assessment will combine both noted tree conditions as well as the cumulative effects of both tree losses as required by fault and ill-health as well as changes in site usage, context and safety requirements.
It is advised that during design, consideration by given to potential falling ranges as well as to the required "Root protection Area" and "Construction Exclusion Zones" that would normally pertain to development works.

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Appendix 1 – Tree Survey

Nature of Survey

This survey has been based upon many of the criteria put forward in BS 5837: 2005 – Trees in Relation to Construction – Recommendations.

Definitions and a brief resume of the typical application of Tree Protection measures as defined within the above standard and as relate to the "RPA" zones defined both within the survey table The data collected has been represented in table form as "Appendix 1" to this report. This appendix includes a Survey Methodology, Survey Key, Survey Abbreviations, Condition Category and on the 'TCP" drawing.

This survey relates to the site and the conditions thereon at the time of the survey. It is likely that changes in site usage, development or other environmental changes with require an amendment of recommendations and in some instances may require the re-classification of a tree's suitability for retention.

Drawing References

colour reference to category systems. Where trees were not located on the supplied drawing, trees may have been given "sketched" locations within "Auburn-TCP-06-07". It is advised that any The survey should be read in conjunction with drawing "Auburn-TCP-06-07" (supplied digitally only) with regard to the representation of tree positions, crown forms, "RPA" extents and such trees are accurately located by professional means so that the constraints such trees have upon the site can be accurately gauged.

only) have been apportioned a "Root Protection Area" (RPA) denoted as a dashed orange circle. This circle represents the minimum area requiring protection form the effects of development activity and should. for the purposes of design, be considered as approximating the position of the tree protection fencing that must be erected prior to the commencement of any site works, Each tree is represented by a coloured circle, scaled to represent the north, east, south and west crown radii as denoted in the survey table. Each tree (categories A-green, B-blue and C-grey thus excluding all site activities other than those dealt with by way of the "Arboricultural Implication Assessment" and "Arboricultural Method Statement"

Site Description

The Survey
The survey was carried out in May of 2007. The survey as set out below is <u>not</u> an Arboricultural Implication Assessment though may provide some of the basic information regarding its compilation in the future. if required. The survey has been undertaken in light of the recommendations of BS 5837 – 2005 Trees in Relation to Construction – Recommendations. Note should be made that this survey typically includes only tree specimens of a stem diameter in excess of 150mm as measured at approximately 1.50 metres from ground level. The survey is to include information regarding the trees on site in relation to their current setting and context.
The survey is not a safety assessment and the parameters reviewed within this survey context would be substantially deficient in extent to provide for a reliable safety assessment. The survey is intended to provide a general over-view regarding the suitability of an individual tree for retention on a development site. All trees, even those apparently healthy, are subject to impromptu failure and damage. The assessment of risk as may be presented by a tree in a given context requires the review of numerous factors in excess of those noted herein and as such, remains outside the scope of this document. Any attempt to use the information herein for such proposes will render the information invalid
Identification Each of the trees described individually within the text has been affixed with a consecutively numbered, alloy disk. The number from this disk relates directly to the survey text. Wherever possible the disk was attached to the tree at approximately 1.5m from ground level and orientated in such a way as to assist in relocation.
Measurements All measurements are metric and defined in metres and millimetres. All trees referred to in the survey text have been measured to provide information regarding canopy height and canopy spread (north, East, South and West radii), level of canopy base and stem diameter at 1.50 meters from ground level. Canopy heights where gained with the assistance of a Suunto PM-5/1520 clinometer (Serial No. 215190) and canopy spreads with the assistance of a 30m fibre glass field tape or hand held Laser measure. Figured dimensions do not infer symmetry. The dimensions provided are intended to provide a reasonable representation of a trees size and form.
It should not be assumed that the highest part of a trees crown exists above the stem centre. Whilst effort are made to maintain accuracy, visual obstruction, specially regarding trees in groups, requires that some tree dimensions are estimated by comparison with a neighbouring tree.

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The information set out in this report relates to the review of a tree population as defined by the site in question. As such, the information provided is based on a general review of the individual trees within that population and does not constitute a detailed review of any one of the individual specimens. Such and evaluation (tree report) would require the gathering of substantially more information than that dealt with in this survey and indeed would likely require that the individual tree be reviewed under a substantially more diverse aroun of criteria
All inspection and tree assessment has been completed by competent an experienced Arborist. The inspection involves visual assessment only, which has been carried out from ground level. No below ground, internal, invasive or aerial (climbing) inspection has been carried out.
Trees are living organisms whose health, condition and safety can change rapidly. It is recommended that all trees should be re-evaluated regarding its condition on an annual basis or subsequent to substantial trauma such a storm event, other damage or injury. It is advised that the results and recommendations of this survey will require review and reassessment after one year from the date of execution.
This survey does not constitute a review of tree or site safety. Attempts to use the contents herein for such purposes will render the contents invalid.
Throughout the undertaking of the survey, a number of factors acted against the inspectors, contriving to reduce the accuracy of the survey.
Seasonality The survey was commenced during the late spring period. Some of the signs, typically symptomatic of ill health within a tree may not have been available to view at the time of the survey or may have been obscured by seasonality related factors. Some of the fruiting bodies of various fungi, parasitic upon trees, will have been out of season and unavailable to view. Many diseases whose symptoms are foliage based will have been obscured by emerging foliage at this time.
Climbing Plants Throughout the survey, note is made of the extent of Ivy cover on some trees. Such cover, whilst in it-self not indicative of ill health can readily obscure other symptoms. In particular, many larger trees carried ivy cover so extensive as to prevent full visual evaluation and as such no assumptions can be made as to such a tree not being effected by one of the major diseases that if not for the Ivy (or other climbing plants) might have been visually obvious.

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Species - Refers to the specific tree species

to in gene	ature	E/M - Early-Mature A specimen, typically 50% - 100% of ultimate dimensions but with substantial capacity for mass and dimensional increase remaining.	M - Mature A specimen of dimensions typical of a full-grown specimen of its species. Future growth would tend to be extremely slow with little if any dimensional increase.	O/M - Over-Mature An old specimen of a species having already attained or exceeded its naturally expected longevity.	V- Veteran An extremely old, veteran specimen of a species, usually of low vigour and typically subject to rapid decline and deterioration or of very limited future longevity.	Tree Dimensions All dimensions are in meters. See notes regarding limitation of accuracy.	Ht. Tree Height	C-Ht Lowest canopy height	Sp: R Tree Canopy Spread measured by radii at north, east, south and west	Dia. Stem diameter at approx. 1.5m from ground level.	RPA Root protection Area, as a radius measured from the tree centre.	Physical Condition - (Con)	G Good - A specimen of generally good form and health G/F	F Fair- A specimen with defects or ill health that can be either rectified or managed.	F/P	P Poor- A specimen whom through defect, disease attack or reduced vigour has a limited longevity or may be un-safe	D Dead- A dead tree		Age - Referred to in g Y - Young S/M - Semi-Mature E/M - Early-Mature M - Mature O/M - Over-Mature V - Veteran Ht. C-Ht Sp: R Dia. RPA RPA Physical Condition G/F F Fair- F/P Poor- D Dead-	sene R A Sp A S
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Structural Condition

A commentary regarding the structural form, defects, damage, injury or disease supported by the tree

PMR - Preliminary Management Recommendations

Recommendation for Arboricultural actions or works considered necessary at the time of the inspection and relating to the existing site context and tree condition. Note is also made of works considered as urgent.

S – Short – Typically 0 -10 years M – Medium – Typically 10 -20 years L+ - Typically in excess of 40 years L - Long - typically 20 - 40 years **Retention Period**

The Category System is intended to quantify a tree with regard to its Arboricultural value as well as a combination of its structural and physical health. Note should be made of the fact that tree categorization relates to the current site and tree locations therein. As site changes occur, it may become necessary to re-evaluate trees with regard to there relationship to new features.
Category R - Typically relates to trees that are dead, dying or dangerous. Such trees may present a threat of suffer from a defect or disease that is considered irremediable. Most R specimens will be removed in keeping with sound Arboricultural practice.
Category A – Typically a good quality specimen, which is considered to make a substantial Arboricultural contribution Category B – Typically including trees regarded as being of moderate quality Category C – Typically including generally poor quality trees that may be of only short term or interim value.
The above categories (A, B and C) will be further subdivided with regard to the nature of their values or qualities. A tree may be awarded one or more value categories depending upon its aspect, nature or cultural links. Such attributes do note infer any additional value and it may be possible for a tree may qualify for one or more of the categories as below.
Sub-Category 1 – Mainly Arboricultural values such as species interest, good species context, landscape design or prominent aspect. Sub-Category 2 – Mainly Landscape values such as woods, groups, avenues, lines that may provide a cumulative landscape value. Sub-Category 3 – Mainly cultural values such as conservation or may have commemorative or historical links.
Terminology
Clean Out This involves the removal of all materials detrimental to the trees health. Typically, this would require the removal of all dead wood or broken branches, the re-pruning of broken stubs back to the branch collar and the pruning out of deformed, crossing and rubbing branches as well as those whom in the opinion of the Arborist may prove un-sound. In addition, this operation would include the removal of spurious debris such as tree houses, ropes, cables etc.
Crown Thin The systematic removal of living branches in a balanced manner from throughout the tree crown, intending to reduce crown weight, wind resistance, to admit more light and to improve air circulation.
Crown Reduction The shortening back of canopy limbs and branches to bring about an overall reduction in crown dimensions

Category System

The development of a Tree Constraints Plan (TCD) provides a design rool with Tegra for tree returnion. Scale a plan combines the topographical land survey drawing with additional information and (BYA is arrey rabie). Secondly, each tree's existence to be recorded on the TCP are. TRRY, the rese canopies, be represented in accordance with the four cardinal compase point and its in arrey rabie). Secondly, each tree's existence to be recorded on the -TCP are. TRRY, the rese transmitted in accordance with the four cardinal compase point (GP, R in arrey rabie). Secondly, each tree's existence to be recorded on the -TCP are. TRRY, the reserved in the Total arrey drawing with a four cardinal compase point. Content trans 1 (2), PEA Area = sum (RPA radius') × π (π =3.14) (3) (2) EA Radius = Stem Diameter × 10 (3) (2) EA Radius = Stem Diameter × 10 (3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	It is advised that the design and management recommendations as set out in I of tree within the scope of a new development.	It is advised that the design and management recommendations as set out in BS5837: 2005 are considered as "best practice" with regard to the selection, retention, protection and management of tree within the scope of a new development.
Calculation of RPA - Extrapolation from Table 2, R55377, 2005 Sind Setan Tree Sind Setan Tree J RPA Action of RPA - Extrapolation from Table 2, R55377, 2005 Sind Setan Tree J RPA Realing = Stem Diameter x 12 J RPA Action = Stem Diameter x 10 J RPA Realing = Stem Diameter x 10 J RPA Action as multer or statisty below J.50 metres from ground level J RPA Realing = Stem Diameter x 10 J RPA Action as multer or statisty allow or and above the speciments struct the application from the system Stem France from ground as the ground level J RPA Action as Conflay the treet and location of constraints, placed upon the state application from the state and most the "RPA" action as "Cha5p +", this denoting a specific regard solud be paid to the "PRA" as defined above. These constraints are provide aquate range to prevent unde encreachment. J Realine and encreasing and the provide aquate range to prevent unde encreachment. Specific regard solud be paid to the "PRA" and the frame of the rest. The "TCP" will represent the the accurd and in the true canopy from from the state and accurd are and index the "RPA" "Column as "Cha5p +", this denoting a solud as a minimum rate of the constraint where and encire the extent and location of constraints, placed upon the step by the trees. The "TCP" will represent the the accurd and the accurd are and accurd to a development undet the regroreation. If well sector of the regoreation and wore	The development of a Tree Constraints Plan (TCP) provides a design tool wil as provided by the tree survey. The aspects of the tree's existence to be recon- radii (Sp: R in survey table). Secondly, each tree's Root Protection Area (RP)	regard to tree retention. Such a plan combines the topographical land survey drawing with additional informatic ed on the "TCP" are, firstly, the tree canopies, be represented in accordance with the four cardinal compass point) must be represented as below.
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Tree with more that one stem arising below 1.50 metres from ground level $3)$ RPA radius = Stem Diameter x 10 $3)$ RPA radius = Stem Diameter x 10 3) RPA Radius = Stem Diameter x 10 $3)$ RPA radius = Stem Diameter x 10 $3)$ RPA radius = Stem Diameter x 10 Some smaller or shrubby or multi-stemmed specimens noted may be of a form that does not readily allow for the application of the above formulas. Such specimens have been afforded an estimate? TRPA' represented as microse in radius over and above the specimens recommands. Such specimens would be denoted under the "RPA'" column as "Cra5p +", this denoting a plant physical crown spread as noted on site plus a figure in metres considered upon the site by the trees. The "TCP" will represent both the true canopy form (north, eas sould be paid to the "RPA'" as defined above. These constraints placed upon the site by the trees. The "TCP" will represent both the true canopy form (north, eas oneld do and device the speciment such and byton of a popesed development. Any aspect of a development undertaken within this area is likely to have a negative impact upon tree health and suiability for retention. In some instances, ipecifically designed and execute structures can be installed, however, the constraint upon engineering and methodology required can incr motable costs and time delays. On submission of a proposed development undertaken with this area is likely to have a negative inpact upon the stability for retention. In some instances, specifically designed and execute structures can be installed, however, the constraint upon engineering an incrut upon costs and time delays. On submission of a proposed development under the anypic or interandot costent and stability for retention. It would be regreade	Single stem Tree 1) <u>RPA Radius</u> = Stem Diameter x 12	2) <u>RPA Area</u> = sum (RPA radius ²) x π (π =3.14)
Some smaller or shrubby or multi-stemmed specimens noted may be of a form that does not readily allow for the application of the above formulas. Such specimens have been afforded an estimated "RPA" represented as an increase in radius over and above the specimens should be denoted under the "RPA" column as "CmSp+", this denoting a plants physical crown spread as noted on site afforded are not constrained on site a figure in metres considered upon the site by the ness. The "TCP" will represent both the true canopy form (north, eas south and vest radii) but also the "RPA" as defined above. These constraints, placed upon the site by the ness. The "TCP" will represent both the true canopy form (north, eas south and vest radii) but also the "RPA" as defined above. These constraints, placed upon the site by the ness. The "TCP" will represent both the true canopy form (north, eas should be paid to the "RPA" as defined above. These constraints, placed upon the site physical cross and layout of a proposed development. Specific regard should be paid to the "RPA" as defined above. These constraints, placed upon the strelated mile archated miler to a miler and executes an animum_radial range of tree protection. It will serve to define the location of tree protection flex will reclose the "Construction Exclusion Zone" of the site. The arrest and to any strelated as a minimum_radial range of tree protection. It will serve to define the location of tree protection flex will reclose the "Construction Exclusion Zone" of the site and executes and extended and extended and extended and extended to a miler will have upon the reviewed under the another costs and time delays. To some instances, specifically designed and executes and extended for any and the strest and extended and extended to a structure and extende of a proposed development the proposal will have upon the reviewed trees. Utimately, the "AIA" should be related to the arelate	Tree with more that one stem arising below 1.50 metres from ground lev 3) <u>RPA Radius</u> = Stem Diameter x 10	
The completed Tree Constraints Plan (TCP) will depict the extent and location of constraints, placed upon the site by the trees. The "TCP" will represent both the true canopy form (north, eas south and west radii) but also the "RPA" (Root Protection Area), depicted upon the supplied drawing as well as related figuratively under the "RPA" column of the survey table. This should be regarded as a <u>minimum</u> radial range of tree protection. It will serve to define the location of tree protection fencing that will enclose the "Construction Exclusion Zone" of the site. Any aspect of a development undertaken within this area is likely to have a negative impact upon tree health and suitability for retention. In some instances, specifically designed and executes are be installed; however, the constraint upon engineering and methodology required can incur notable costs and time delays. On submission of a proposed development design, it should be reviewed trees. Ultimately, the "AIA" should for fifter that the proposals will have upon the reviewed trees. Ultimately, the "YIA" should be treated for any assessment is intended to quantify the mature and extent of effect that the proposals will have upon the reviewed trees. Ultimately, the "YIA" should be treated for any amendments as may be required because of the "YIA" should be treated and est that he proposals will have upon the reviewed trees. Ultimately to write an Arboricultural Implication Assessment (AIA). This assessment is intended to quantify the mature and extent of effect that the proposals will have upon the reviewed trees. Ultimately, the "YIA" should be required for the "Costs" and for the "YCP" requirements and worth that the design and mature and externed for any amendments as may be required to the "TCP" requirements and whore during the individual tree management requirements in light of the design and mature and externed for any amendments as may be required received trees. Ultimately, the "MAS" should be required to the "TCP" requirements and wort ito wo	Some smaller or shrubby or multi-stemmed specimens noted may be of a fornestimated "RPA" represented as an increase in radius over and above the specplants physical crown spread as noted on site plus a figure in metres consider	t that does not readily allow for the application of the above formulas. Such specimens have been afforded an imens crown radius. Such specimens would be denoted under the "RPA" column as "CrnSp +", this denoting a d to provide adequate range to prevent undue encroachment.
 Specific regard should be paid to the "RPA" (Root Protection Area), depicted upon the supplied drawing as well as related figuratively under the "RPA" column of the survey table. This should be regarded as a <u>minimum</u> radial range of tree protection. It will serve to define the location of tree protection fearing that will enclose the "Construction Exclusion Zone" of the site. Any aspect of a development undertaken within this area is likely to have a negative impact upon tree health and suitability for retention. In some instances, specifically designed and execute structures can be installed; however, the constraint upon engineering and methodology required can incur notable costs and time delays. On submission of a proposed development design, it should be reviewed under the auspices of an Arboricultural Implication Assessment (AIA). This assessment is intended to quantify the netwoology. On submission of any amendments as may be required because of the "AIA" should identify potential problems thus allowing scope for review of the design and unchoology. On completion of any amendments as may be required because of the "TCP" requirements and would set out its own methodologies in light of the "TCP" requirements and would set out its own methodologies with regard to the provision and maintemance of tree protection. It would also provide any alterations as would be required regarding the individual tree management requirements in light of the reviewed maintemance of tree protection. It would also provide any alterations as would be required regarding the individual tree management requirements in the provision and maintemance of tree protection. It would also provide any alterations as would be required the individual tree management requirements in light of the travey of the changed environment and context. The "TPP" will set out specifically, the rese protection measures (Construction Exclusion Zone-CEZ) in accordance with section 7.1 and 7.2 of BS 5837: 2005. The	The completed Tree Constraints Plan (TCP) will depict the extent and locatic south and west radii) but also the "RPA" as defined above. These constraints	o of constraints, placed upon the site by the trees. The "TCP" will represent both the true canopy form (north, eas nust be considered with regard to the design and layout of a proposed development.
Any aspect of a development undertaken within this area is likely to have a negative impact upon tree health and suitability for retention. In some instances, specifically designed and executes structures can be installed; however, the constraint upon engineering and methodology required can incur notable costs and time delays. On submission of a proposed development design, it should be reviewed under the auspices of an Arboricultural Implication Assessment (AIA). This assessment is intended to quantify the nature and extent of effect that the proposals will have upon the reviewed trees. Ultimately, the "AIA" should identify potential problems thus allowing scope for review of the design and methodology. On completion of any amendments as may be required because of the "AIA", it will be necessary to write an Arboricultural Method Statement (AMS) and produce a Tree Protection Plan (TPP). The "AMS" would review and advise construction methodologies in light of the "TCP" requirements and would set out its own methodologies with regard to the provision and maintenance of tree protection. It would also provide any alterations as would be required regarding the individual tree management requirements in light of the tree protection methodologies in light of the "TCP" requirements and would set out its own methodologies with regard to the provision and maintenance of tree protection. It would also provide any alterations as would be required regarding the individual tree management requirements in light of the tree protection measures (Construction Exclusion Zone-CEZ) in accordance with section 7.1 and 7.2 of BS 5837: 2005. The TPP will also depict all trees for retention, all trees for retention, all trees for retention.	Specific regard should be paid to the "RPA" (Root Protection Area), depicted should be regarded as a <u>minimum</u> radial range of tree protection. It will serve	upon the supplied drawing as well as related figuratively under the "RPA" column of the survey table. This to define the location of tree protection fencing that will enclose the "Construction Exclusion Zone" of the site.
On submission of a proposed development design, it should be reviewed under the auspices of an Arboricultural Implication Assessment (AIA). This assessment is intended to quantify the nature and extent of effect that the proposals will have upon the reviewed trees. Ultimately, the "AIA" should identify potential problems thus allowing scope for review of the design and methodology. On completion of any amendments as may be required because of the "AIA", it will be necessary to write an Arboricultural Method Statement (AMS) and produce a Tree Protection Plan (TPP). The "AMS" would review and advise construction methodologies in light of the "TCP" requirements and would set out its own methodologies with regard to the provision and maintenance of tree protection. It would also provide any alterations as would be required regarding the individual tree management requirements in light of the changed environment and context. The "TPP" will set out specifically, the location of the tree protection measures (Construction Exclusion Zone-CEZ) in accordance with section 7.1 and 7.2 of BS 5837: 2005. The TPP will also depict all trees for retention, all trees for retention, all trees for retention.	Any aspect of a development undertaken within this area is likely to have a n structures can be installed; however, the constraint upon engineering and me	gative impact upon tree health and suitability for retention. In some instances, specifically designed and executed nodology required can incur notable costs and time delays.
On completion of any amendments as may be required because of the "AIA", it will be necessary to write an Arboricultural Method Statement (AMS) and produce a Tree Protection Plan (TPP). The "AMS" would review and advise construction methodologies in light of the "TCP" requirements and would set out its own methodologies with regard to the provision and maintenance of tree protection. It would also provide any alterations as would be required regarding the individual tree management requirements in light of the changed environment and context. The "TPP" will set out specifically, the location of the tree protection measures (Construction Exclusion Zone-CEZ) in accordance with section 7.1 and 7.2 of BS 5837: 2005. The TPP will also depict all trees for removal as well as annotated CEZ dimensions.	On submission of a proposed development design, it should be reviewed und nature and extent of effect that the proposals will have upon the reviewed tre methodology.	r the auspices of an Arboricultural Implication Assessment (AIA). This assessment is intended to quantify the s. Ultimately, the "AIA" should identify potential problems thus allowing scope for review of the design and
The "TPP" will set out specifically, the location of the tree protection measures (Construction Exclusion Zone-CEZ) in accordance with section 7.1 and 7.2 of BS 5837: 2005. The TPP will also depict all trees for retention, all trees for removal as well as annotated CEZ dimensions.	On completion of any amendments as may be required because of the "AIA" (TPP). The "AMS" would review and advise construction methodologies in maintenance of tree protection. It would also provide any alterations as woul context.	it will be necessary to write an Arboricultural Method Statement (AMS) and produce a Tree Protection Plan ght of the "TCP" requirements and would set out its own methodologies with regard to the provision and be required regarding the individual tree management requirements in light of the changed environment and
	The "TPP" will set out specifically, the location of the tree protection measu also depict all trees for retention, all trees for removal as well as annotated C	es (Construction Exclusion Zone-CEZ) in accordance with section 7.1 and 7.2 of BS 5837: 2005. The TPP will is dimensions.

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Tree protection must effectively prevent access to and protect areas defined as an "RPA" or Construction Exclusion Zone "CEZ" within the "TPP". It may however be possible, if carried out in accordance with section 9.3 of BS5837: 2005 regarding ground protection, to gain some degree of entry into an "RPA" area. Advice on this can however, only be provided subsequent to the submission of engineering and access requirements and necessary methodologies for scrutiny be the site Arborist.	iowever be possible, if carried out ir ain some degree of entry into an ies for scrutiny be the site Arborist.
All such protection, whether vertical or horizontal, must conform or equate to the recommendations of section 9, BS5837: 2005, must be fit for purpose and commensurate with the nature of development and the expected day-to-day activities of the site works.	commensurate with the nature of
Tree Pruning and Management	
All site trees should be re-evaluated with regard to the possible befits as would be gained by the application of various pruning type works. Such works should only be decided upon in light of the AIA and the AMS as once the full impact of site works are know, amendments to the provisional management recommendations (as set out in the survey table) may be required regarding tree retention in relation to either the development or possibly health and safety related issues.	ld only be decided upon in light of table) may be required regarding
It is likely that the developed site will create an altered environment that in it's self, may require that individual trees undergo pruning to provide some level of adjustment etc. Such trees may be those originally suppressed, misshapen or unbalanced by the proximity of now removed trees. Such specimens may require attention to address imbalances or to remove/reduce limbs that may protrude outside of the normal crown sphere.	of adjustment etc. Such trees may b or to remove/reduce limbs that may
In some instances, malformations or imbalances within trees may be extensive enough to question the suitability of such specimens for retention in isolation or even in positions of increased exposure.	or even in positions of increased
It should be noted that retained trees might be encroached upon by site development works and off ground construction requirements that in some instances should be addressed. For this reason, it may be required that some of the retained trees undergo pruning works to improve clearance and to provide space for construction activities. Such requirements can be reviewed by the site Arborist as such necessities become apparent.	should be addressed. For this reason nents can be reviewed by the site
All retained trees should undergo standard improvement work including "Cleaning Out" (BS 3998: A Standard for Tree Works) as well as any remedial works as required to address noted faults or other problems.	ks as required to address noted fault

Table 1 – Survey Findings

Cat	C1-2	8	A1-2	в	R	3	B1-2	ប																							
Yrs	Z	X	L	S	NA	S	L	M																							
PMR	Clean-out and monitor with regard to potential future decline.	Cut Ivy and monitor.	Clean-out and monitor.	Will require radical pruning for retention.	Must be considered as requiring removal within short term.	Retention will require radical pruning.	Clean-out and monitor on regular basis.	Monitor.																							
Structural Condition	of both y wel, mced to vigour, but uctural gour though		development. Twin stemmed from ground level, suppressed and notably unbalanced to north east. Maintaining good vigour, but is considered to be of poor structural form. In generally good form and vigour though supporting notable deadwood. Chronically distorted because of suppression. Has sustained notable crown		Large specimen exhibiting classics signs of decline and exhibiting bark necrosis and fungal activity on lower side of western stem. Continued decline and deterioration is expected with stability now becoming undermined.	Chronically distorted because of suppression and notably unbalanced to south. Considered to be of limited future value and is currently gaining support from adjoining wall structure.	A large and visually imposing specimen of variable crown vigour and noted to support deadwood.	Young vigorous but suppressed and distorted. Of questionable long-term value but present no threat at this time.																							
RPA	8.02			5.58	10.01	5.04	11.19	1.99																							
Dia.	0.67	0.58	0.84	0.46	0.83	0.42	0.93	0.17																							
Stems	1	- 01 -		-	-	-	-	-	-					-	-			-	-	-	-	-	-	-	-	-	-	1	-	1	1
Spr S	9.00 8.00 7.00 4.00	8.00 6.00 3.00 3.00	10.00 6.00 8.00 7.00	1.00 7.00 9.00 2.00	5.00 7.00 8.00 4.00	1.00 4.00 9.00 2.00	6.00 5.00 9.00 6.00	3.00 2.00 3.00																							
	X H S A		ZES	Z H S X	Z ⊞ N ₿	N H N N	X H N X	Z H S X																							
C-Ht.	7.00	2.00	6.00	1.00	2.00	1.00	3.00	4.00																							
Ht.	18.00	16.00	20.00	15.00	19.00	10.00	20.00	9.00																							
Con		FP	G/F	Ч	F/P	4	머	F/P																							
Age		E/M	W	M	W	E/M	M	S/M																							
Snecies	re platanus)	tanus) stnut anum) itanus)		Holm Oak (Quercus ilex)	Beech (Fagus sylvatica)	Holm Oak (Quercus ilex)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)																							
No.	885	886 1	887	888	889	890	891	892																							

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Cat	R	B1-2	B2	C1-2	C1-2	R	B2	R
Yrs	N/A	L	Г	S	S	N/A	L	N/A
PMR	Remove.	Clean-out and monitor.	Clean-out and Monitor.	Clean-out and cut Ivy re-evaluate subsequent to Ivy shedding.	Clean-out and monitor with regard to suitability for retention.	Deterioration is expected to continue with a requirement for removal within short term.	Clean-out in consider application of weight reduction works on southern side of canopy. Monitor.	Conservation retention may be allowed for by removal of laterals thereby retaining stump supporting in light of sucker material only.
Structural Condition	Is maintaining good vigour but supported upon decayed stem. Is liable to collapse.	Of generally drawn up and up and columnar form. Heavily divided at a 10.00 m. Has sustained minor storm damage in past but remains vigorous.	Of good general vigour. Has sustained past storm damage and limb loss. Is heavily forked at 10.00 m.	Suppressed by proximity of near neighbours but is apparently vigorous at this time. Has sustained substantial storm damage resulting in localised decay to numerous limbs and stumps.	Exhibiting classic signs of decline and defoliation particularly about crown apex. Has sustained widespread storm damage in past. Is considered to be of poor quality and limited longevity.	Of reduced vigour and apparently in decline. Exhibits fruiting bodies of still minor at ground level.	Heavily unbalanced to south as result of past suppression. General vigour appears fair at this time.	Has been decapitated by storm damage, exists in stump-form. Supports small number of lateral limbs. Is considered unsuitable for retention with risk existing with regard to collapse of remaining laterals.
KTA	2.48	7.45	7.22	8.02	7.10	8.21	7.98	11.92
Dia.	0.21	U	0.60	0.67	0.59	0.68	0.67	66.0
Stems	I	1	1	1	1	1	1	1
1	2.00 3.00 3.00	4.00 4.00 4.00 6.00	6.00 5.00 4.00 5.00	7.00 6.00 5.00 5.00	7.00 5.00 5.00 5.00	6.00 7.00 6.00 3.00	4.00 8.00 9.00 5.00	2.00 5.00 7.00 7.00
1	X H N X	X E N X	X H S X	X H N X	N H N N	ZШS>	хыху	Z Ш N У
C-Ht.	3.00	3.00	4.00	4.00	5.00	6.00	3.00	6.00
	12.00	21.00	21.00	20.00	19.00	22.00	19.00	17.00
-	<u>م</u>	G/F	G/F	G/F	4	d.	щ	4
-	S/M	W	M	W	W	N	W	W
Species	Beech (Fagus sylvatica)	Horse Chestnut (Aesculus hippocastanum)	Horse Chestnut (Aesculus hippocastanum)	Horse Chestnut (Aesculus hippocastanum)	Horse Chestnut (Aesculus hippocastanum)	Beech (Fagus sylvatica)	Horse Chestnut (Aesculus hippocastanum)	Beech (Fagus sylvatica)
1		894	895	896	897	898	899	006

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Cat	B1-2	B1-2	B2	B2	B2	B1-2	B2	B1-2
Yrs	Ч		Г	Ъ	Л	Γ	Г	Г
PMR	Clean-out and monitor.	Clean-out and monitor.	Clean-out and monitor.	Clean-out and monitor on regular basis with regard to continued decline. Cut Ivy.	Cut Ivy and clean out. Monitor.	Clean-out and monitor.	Cut Ivy and monitor.	Clean-out and monitor.
Structural Condition	Substantially one-sided as result of suppression originally provided for by 900. Now substantially exposed on northern side. Vigour remains good though tree has sustained minor mechanical damage to collapse of near neighbour.	Such a one-sided and unbalanced to south west as a result of past suppression. General vigour appears good though substantial deadwood is noted.	A young and vigorous specimen distorted as result of suppression.	Appears vigorous at this time. Crown apex supported number of truncated limbs suggesting past of decline.	Supports notable imbalance to south but remains vigorous. Lower crown supports notable deadwood.	A large visually imposing specimen of variable crown vigour. Currently supports limited deadwood.	Young and vigorous though slightly suppressed by proximity of near neighbours.	At generally good vigour and set back from road.
RPA	8.29	9.40	5.04	6.19	6.95	12.38	4.13	7.45
Dia.	0.69	0.78	0.42	0.52	0.58	1.03	0.34	0.62
Stems	-	Ľ	T	-	-	1	1	r.
Spr	2.00 7.00 4.00	5.00 4.00 9.00 7.00	4.00 3.00 3.00 6.00	4.00 2.00 5.00 5.00	5.00 5.00 8.00 4.00	5.00 7.00 9.00 7.00	4.00 4.00 4.00 4.00	7.00 5.00 6.00 6.00
	Z Ш N ¥	Z E S X	Z ш v X	ZES	ZES	Z Ш S Ø	Z E S S	Z ⊞ ∾ ≽
C-Ht.	4.00	2.00	3.00	2.00	3.00	4.00	4.00	4.00
Ht.	22.00	21.00	17.00	18.00	18.00	23.00	14.00	19.00
Con	G/F	G/F :	Ц	F/P	G/F	Ľ,	G/F	G/F
Age	М	X	E/M	M	M	M	E/M	M
Species	a)	Beech (Fagus sylvatica)	Horse Chestnut (Aesculus hippocastanum)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Horse Chestnut (Aesculus hippocastanum)
No.	106	902	903	904	905	906	907	908

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Cat	B2	3	R	B2	B2	3
Vrc		M	N/A	L	Ц	W
PMR		Clean-out and cut Ivy. Monitor.	Remove.	Clean-out and cut Ivy. Monitor.	Cut Ivy and monitor.	Cut Ivy and re-evaluate.
Structural Condition	C NO S O S O	A large specimen at western end of above-mentioned alignment. Distorted suppressed and supporting notable Ivy cover.	Exists as remnant of original beach alignment. Unsuitable for retention.	Heavily distorted but maintaining good vigour.	A close-knit and highly regimented triangular plantation of young trees intended to provide a screen for an adjoining Spruce population located to the north. All specimens remaining alive however proximity to one another has calls suppression and any diminution in canopy retention. Retention at this time, as part of the plantation shield is likely to prove desirable.	A close-knit and multi stemmed group arising from ditch embankment age and consider to be naturally arising. Of reduce mechanical form and heavily Ivy clad but providing good screening at this time.
RPA	CmSp +1	3.86	CmSp +1	3.93	16.1	CmSp +1
Dia.	N/A	0.32	N/A	0.33	0.16	N/A
Stems	-	1	1	1		ę
1	NIA	2.00 4.00 3.00	0.50 0.50 0.50 0.50	4.00 2.00 4.00 5.00	2.00	3.00 5.00 4.00
1	Z H N Э	N E N	X H N X	ХШSX	Z ⊞ N ≽	X H S X
C-HL	2.00	2.50	N/A	5.00	2.00	N/A
1	9.00	13.00	4.00	14.00	10.00	16.00
	ц	LT.		ц	ц ц	F F
Age	S/M	E/M	E/M	E/M	E/M	E/M
Species	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Lawson Cypress (Chamaecyparis lawsoniana)	Ash (Fraxinus excelsior)
.001	606	910		912	913	914

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Cat	3	3	B2	C3	B1-2	B1-2
Yrs	Z	M	Г	M	Ц	Ч
PMR	Cut Ivy and re-evaluate on regular basis.	Cut Ivy and re-evaluate on regular basis.	Cut Ivy and remove deadwood re- evaluate subsequent to Ivy shedding.	Cut Ivy and Clean-out monitor regularly.	Clean-out, remove deadwood and cut Ivy. Re-evaluate subsequent to Ivy shedding.	Clean-out and cut Ivy. Monitor.
Structural Condition	A close-knit community of multi stemmed individuals combining to create a disbursed but overall contiguous crown form. Individual specimens are considered to be of poor quality, being multi stemmed and supporting numerous compression forks. Long term viability is considered limited but currently provides substantial screening.	A close knit community of multi stemmed specimen is considered to be of poor mechanical form and heavily lvy clad. Long-term retention would appear to be undermined; however, retention at this time would be desirable on screen grounds.	A large twin stemmed specimen of apparently good vigour but heavily Ivy clad preventing detailed inspection. Note is made of crown deadwood.	A young whip notably unbalanced to north as result of suppression.	Notably one-sided because of proximity to near neighbours. Crown vigour appears variable with minor deadwood development awards apex. Principal stem is heavily Ivy clad preventing detailed inspection.	A large specimen heavily divided at 9.00 m. General vigour appears good with limited deadwood carriage at this time.
RPA	CmSp +1	CmSp +1	6.80	2.14	12.07	11.38
Dia.	N/A	N/A	0.57	0.18	1.01	0.95
Stems	σ	ς.	2	1	1	1
Spr S	5.00 7.00 6.00 6.00	3.00 3.00 3.00 3.00	6.00 6.00 8.00 5.00	5.00 2.00 2.00 2.00	5.00 7.00 8.00 2.00	7.00 4.00 11.00 5.00
	Z H N ≥	X H N X	X H N X	X H S X	X E N ≫	X H S X
C-Ht.	N/A	N/A	2.00	2.00	4.00	2.00
Ht.	16.00	15.00	17.00	14.00	22.00	23.00
Con	Ц	ц.	G/F	۲.	ц	G/F
	B/M	E/M	X	S/M	Z	M
Species	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)
No.	915-	918- 919	920	921	922	923

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Cat	B1-2	C1-2	3	3	ប	3	R	R
Vrc	T	S	S	S	M	M	N/A	N/A
PMR	Clean-out and cut Ivy. Monitor regularly.	Will require removal within short to medium term future though cleaning out and monitoring may allow for interim retention.	Clean-out and cut Ivy re-evaluate subsequent Ivy shedding.	Monitor regularly with regard to suitability for retention.	Clean-out and cut Ivy re-evaluate subsequent to Ivy shedding.	Cut Ivy and monitor regularly.	Remove.	Remove.
Structural Condition	One-sided because of suppression by near neighbours. Apparently vigorous, supporting limited deadwood.	Note is made fruiting bodies of Ganoderma at two points on principal stem suggesting ongoing in internal decay. Current crown vigour is there though deadwood is noted at crown apex.	Substantially suppressed with entire crown apex deflected to south. Is considered to be of questionable retention merit though provides a notable screening at this time.	Supports limited high crown of reduced vigour. Entire stem is heavily Ivy clad. Of questionable retention merit.	Substantially suppressed because of proximity to Beech 930. Unbalanced to north. Appears to be maintaining fair vigour at this time.	Drawn up and whip like, unbalanced to southwest as result of suppression.	Entire crown structure exhibit signs of ongoing decline deterioration and dieback. Lower stem supports notable and extensive decay on northern side. Consider unsuitable for retention.	Exists as a suckering and whip arising from damaged stump. Considered unsuitable for retention.
RPA	10.12	12.99	5.16	2.75	5.88	4.89	12.38	2.10
Dia.	0.84	1.08	0.43	0.23	0.49	0.41	1.03	0.18
Stems	1	T	1	1	T ¹	1	-	1
Spr	6.00 3.00 9.00 7.00	9.00 7.00 9.00 6.00	1.00 3.00 3.00 3.00	2.00 2.00 2.00 2.00	6.00 6.00 2.00 4.00	4.00 0.00 3.00 5.00	6.00 6.00 8.00 9.00	0.00 0.00 4.00 3.00
	X E N X	X H N X	× π γ ≥	Z H N ≥	Z E N ≥	Z E S ≥	Z H S ≯	ZHSW
C-Ht.	3.00	3.00	4.00	0.00	12.00	3.00	3.00	2.00
Ht.	22.00	22.00	16.00	15.00	19.00 12.00	16.00	19.00	10.00
Con	G/F	д.	F/P	Ľ.	ц	F/P	4	4
Age	X	X	E/M	E/M	W	E/M	W	S/M
Species	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Sitka Spruce (Picea sitchensis)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)
No.	924	925	926	927	928	929	930	931

- 20 -

Cat	3	B2	B2	8	B2	B2	B1-2	B1-2	ы М
Yrs	M	Ч	Ч	M	Г	Ч	Ц	Г	N/A
PMR	Cut Ivy and re-evaluate.	Cut Ivy and monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding. Monitor regularly.	Cut Ivy and monitor.	Cut Ivy and re-evaluate subsequent shedding. Clean-out and monitor.	Clean-out and cut Ivy, re-evaluate subsequent to Ivy shedding. Monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and Clean-out monitor regularly.	Remove.
Structural Condition	Drawn up and whip like, supporting notable Ivy on principal stem. Vigour appears good at this time.	Drawn up and suppressed by proximity of near neighbours but maintaining good vigour at this time.	Of drawn up and columnar form with principal stem heavily Ivy clad. Vigour appears fair at this time.	Distorted and suppressed by proximity of larger neighbours. Principal stem supports notable Ivy cover. though general vigour appears good.	Principal stem heavily Ivy clad with notable distortion evident at 12.00 m.	Apparently maintaining good vigour though principal stem is heavily Ivy clad preventing detailed inspection.	Of apparently good vigour, supporting limited deadwood.	A large visually imposing specimen of apparently good vigour at this time.	Entrice crown is in state of decline with substantial dieback evident throughout. Printable stem is heavily Ivy clad. Is considered ill-suited to retention.
KLA	3.74	16.04	3.74	3.32	5.58	9.01	8.94	14.13	12.99
Dia.	0.31	1.34	0.31	0.28	0.46	0.75	0.74	1.18	1.08
Stems	1		F	1	1	1	T	T	1
Spr	2.00 2.00 4.00	2.00 3.00 5.00 4.00	3.00 3.00 4.00 1.00	1.00 3.00 5.00 4.00	5.00 5.00 5.00 5.00	5.00 6.00 7.00 4.00	7.00 5.00 6.00 6.00	9.00 6.00 8.00 8.00	7.00 6.00 6.00 7.00
	хшs≯	ХШХ¥	хш∞≽	N E N N N	Z E S X	ZШS≯	ZШSB	N H N N	Z E N ≥
C-Ht.	4.00	4.00	10.00	12.00	6.00	4.00	2.00	5.00	5.00
Ht.	18.00	15.00	19.00	12.00	18.00	19.00	22.00	23.00	18.00
Con	<u>г</u> щ	L L	<u>г</u>	T	Ц	Ľ,	G/F	G/F	P
-	E/M	E/M	E/M	E/M	W	M	M	M	M
Species	a)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Oak (Quercus robur)
No.		933]	934	935	936	937	938	939	940

- 21 -

Cat	3	B2	ប	B2	R	B2
Yrs	М	- -	М	Г	N/A	T
PMR	Cut Ivy and monitor.	Cut Ivy and monitor.	The severance of Ivy near ground level will improve visual appraisal in future.	Monitor.	Remove.	Cut Ivy and clean out. Monitor.
Structural Condition	Possibly a surviving remnant of original Beech hedge. Now suppressed and distorted together with Ivy cover on principal stem.	Young and vigorous, comprises general thicket development and adjoining ditch.	An irregular bus generally continuous and alignment of suckering young trees including Ash and Sycamore. All specimens appear to be multi stemmed and of configurations that suggests prior cutting and subsequent re-suckering from a remnant stump. Tree quality is considered poor though small stature at this time serves to create a substantial thicket like effect and notable screening. General vigour is good and presentation of threat at this time is considered minimal.	Young and vigorous, becoming affected by climbing Bramble. May be susceptible to Dutch Elm disease in future.	Chronically distorted, exists as sucker redevelopment. Considered ill-suited to retention.	Slightly one-sided because of suppression. General vigour appears fair at this time though principal stems and trunk heavily Ivy clad.
KFA	2.86	2.10	N/A	2.06	6.50	11.84
Dia.	0.24	0.18	N/A	0.17	0.65	66.0
Stems	1	1	1	1	ŝ	
	3.00 3.00 5.00 5.00	3.00 3.00 2.00 2.00	N/A	3.00 3.00 3.00 3.00	5.00 5.00 5.00 0.00	8.00 4.00 4.00 6.00
1	X H S X	X H N X		ΖШΝЭ	ZШS>	X H N X
C-HL.	2.00	2.00	0.00	2.00	0.00	2.00
- 1	11.00	9.00	10.00	10.00	8.00	17.00
-	щ	<u>ل</u> تـ	FIP	Ľ.	4	ц
Age	S/M	S/M	S/M	S/M	S/M	N
Species	Beech (Fagus sylvatica)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior) Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)
NO.	941	942	943	944	945	946

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Cat	ប	5	C3	Я
Yrs	M	M	S	NA
PMR	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and re-evaluate with regard to suitability for retention.	Consider early removal.
Structural Condition	A generally continuous one variable thicket supporting Ash. Wych Elm and Sycamore. All specimens arise as multi stemmed individuals suggesting prior cutting and subsequent re-suckering from remnant stumps. General quality of individuals is considered poor though they are noted to provide excellent screening at this time. Threat presentation is considered minimal.	Possibly arising as sucker redevelopment from a previous stump. Remains vigorous at this time.	Twin stemmed from near ground level and effected by development of drive way on adjoining property. Principal stem divided at 2.00 m with Weston stem having been decapitated. Crown vigour is variable with deadwood noted. Printable stem is heavily Ivy clad preventing detailed inspection.	Drawn up and whip like, has sustained notable physical damage to lower stem and arises from extensively disturbed ground. Lower stem is heavily lvy clad with crown vigour being below that expected for tree of this age. Considered ill suited for retention.
RPA	CmSp +1	2.22	5.00	2.79
Dia.	NIA	0.22	0.50	0.23
Stems	Ś	m	5	1
Spr S	N/A	3.00 4.00 3.00 5.00	3.00 5.00 5.00	3.00 3.00 1.00 4.00
	Z ⊞ ∾ ≽	X H N X	M E N M N E N	ХШN≫
C-Ht.	0.00	1.50	4.00	5.00
Ht.	10.00	10.00	16.00	16.00
Con	ц.	Ц	Ľ.,	Ľ.
	S/M	S/M	E/M	E/M
Species	Ash (Fraxinus excelsior) Sycamore (Acer pseudoplatanus) Wych Elm (Ulmus glabra)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
No.	947	948	949	950

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Cat	и И	B2	3	B2	B2	2	B2
Yrs	N/A	Г	s	L	L	M	Г
PMR	Remove.	Cut Ivy and re-evaluate.	Cut Ivy and Clean-out re-evaluate on regular basis with regard to potential onset of decline.	Clean-out and cut Ivy, monitor regularly.	Cut Ivy monitor.	Cut Ivy and Clean-out monitor regularly with regard suitability for retention.	Cut Ivy and monitor regularly.
Structural Condition	Exists in close proximity to two additional stem is located immediately to east. Arises from western side of ditch side embankment that has sustained notable of extensive ground disturbance compaction and excavation damage. Crown vigour is notably for poor with extensive deadwood throughout. Specimens are considered unsuitable retention.	Arising from eastern side of ditch embankment. Apparently maintaining good vigour though supporting extensive Ivy cover at this time.	Suppression has caused and one-sided development with imbalance to west. Crown vigour is below that expected tree of this age with extensive deadwood throughout canopy. Principal stem is heavily Ivy clad.	Suppression has lead to implants to west. Crown vigour appears fair though deadwood is noted.	Young and vigorous though it will stem is Ivy clad.	Heavily Ivy clad and unbalanced to west. Crown supports extensive deadwood suggesting possible onset of decline.	Suppression has lead to development of crown imbalance to west. General vigour appears good.
RPA	3.09	5.77	6.19	5.62	2.67	5.69	5.96
Dia.	0.26	0.48	0.52	0.47	0.22	0.47	0.50
Stems	-	1	1	1	1	1	1
1	4.00 3.00 5.00	4.00 4.00 4.00 4.00	3.00 0.00 5.00	3.00 3.00 3.00 6.00	3.00 3.00 3.00	2.00 2.00 3.00 6.00	3.00 0.00 5.00
1	N E N N	Z ⊞ ∾ ≽	Z H N ≯	Z ⊞ S ₿	X H N X	Z H N ≥	X E S X
C-Ht.	4.00	4.00	5.00	6.00	1.00	3.00	6.00
Ht.	17.00	16.00	17.00	18.00	12.00	17.00	17.00
-	FIP	Ц	F/P 1	<u>г</u>	<u>г</u> ц	P	н Г
Age	E/M	E/M	E/M	E/M	S/M	E/M	E/M
Species	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
No.	951	952	953	954	955	956	957

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Cat	B2	B2	Я	B2	B2	3	B2	B2	B2	B2
Yrs	L	Ц	N/A	Ч	Ч	M	Ц	Ч	F	L)
PMR	Cut Ivy and monitor.	Cut Ivy and clean-out, monitor.	Remove.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean-out, re-evaluate subsequent to Ivy shedding with regard to suitability for retention.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Monitor.
Structural Condition	Drawn a specimen elongated as result of woodland suppression.	Heavily divided near ground level but maintaining good vigour at this time.	Maintaining good vigour but supported on extensively decayed base. Risk of collapse is considered high.	Drawn up with limited high crown.	Distorted and drawn up because of suppression.	Heavily distorted with entire crown apex unbalanced to north west.	Drawn up and unbalanced to west as result of suppression. It is maintaining good vigour at this time.	Drawn up with limited high crown only.	Substantially one-sided and unbalanced to west. Is apparently maintaining good vigour at this time.	Good general form and vigour. Clean-out and cut lvy.
RPA	3.93	6.95	4.32	3.13	2.98	5.04	5.04	4.16	5.77	7.33
Dia.	0.33	0.58	0.36	0.26	0.25	0.42	0.42	0.35	0.48	0.61
Stems	1	1	I	1	1	1	Γ	-	1	F
Spr	2.00 0.00 3.00 4.00	4.00 2.00 3.00 5.00	3.00 2.00 5.00	3.00 3.00 3.00	2.00 0.00 2.00 4.00	4.00 0.00 5.00	3.00 1.00 3.00 4.00	3.00 2.00 3.00	4.00 2.00 3.00 7.00	4.00 5.00
	ХШХ¥	X H N X	хшх≫	ХШS≯	ΖШΟΫ	Z H N ≷	X H S X	Z EI S ≥	ZENS	Z Ш N В
C-Ht.	10.00	5.00	4.00	9.00	8.00	7.00	8.00	12.00	7.00	5.00
Ht.	17.00 10.00	18.00	15.00	18.00	16.00	16.00	18.00	18.00	18.00	18.00
Con	۲.	ц	d	G/F	Ц	F/P	ц	G/F	ц	G/F
_	E/M	E/M	E/M	E/M	E/M	E/M	E/M	E/M	М	M
Species	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)
No.	958	959	096	961	962	963	964	965	966	967

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No.	968	969	026	971	972	973	974	975
Species	Beech (Fagus sylvatica)	Oak (Quercus robur)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatamus)	Oak (Quercus robur)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)
Age	E/M	M	E/M	M	м	M	M	E/M
Con	G/F	ц	G/F	G/F	Ц	ГL	G/F	Ľ,
Ht.	17.00	18.00	16.00	18.00	18.00	19.00	18.00	17.00
- 1	3.00	6.00	2.00	5.00	4.00	5.00	3.00	8.00
1		Z Ш N 🕅		ХШSX	M と E N	N E S S	Z ш v У	ZШS
Spr	5.00 4.00 9.00	5.00 5.00 4.00 7.00	3.00 3.00 6.00	4.00 4.00 6.00	4.00 1.00 5.00 13.00	5.00 7.00 5.00 4.00	7.00 6.00 7.00 6.00	1.00 0.00 3.00
Stems	-	-	Г	1	1	-	-	T
Dia.	0.47	0.84	0.38	0.69	0.43	0.45	0.99	0.39
RPA	5.65	10.12	4.51	8.33	5.16	5.42	11.84	4.62
Structural Condition	Young and vigorous though deflected as result of suppression to west.	Generally good vigour though supporting notable deadwood. Lower crown is heavily Ivy clad preventing detailed inspection.	A generally good form and vigour though crown development is extended to west as result of suppression.	Suppression is lead to extend the development of crown to west. Has sustained past storm damage and minor limb truncation. Principal stem is heavily Ivy clad preventing detailed inspection at this time.	Notably unbalanced to west as result of suppression. Has sustained extensive past storm damage but remains relatively vigorous at this time. Crown supports notable deadwood. May be predisposed to storm damage.	A generally good form and vigour though supporting deadwood and notable Ivy cover.	Of apparently good vigour and form.	Drawn-up with limited high crown. Principal stem heavily lvy clad.
PMR	Cut Ivy and clean out. Monitor.	Cut Ivy and Clean-out monitor.	Clean-out and cut Ivy. Monitor.	Clean-out and cut Ivy re-evaluate subsequent to Ivy shedding. Monitor.	Clean-out and apply weight reduction works to western side of crown. Cut Ivy and re-evaluate subsequent to Ivy shedding. Monitor regularly.	Clean-out and cut Ivy. Monitor.	Cut Ivy, clean-out. Monitor.	Cut Ivy Clean-out monitor regularly.
Yrs	Ч	L	L	L	M	Г	Г	T
Cat	B2	B2	B2	B2	5	B2	B2	B2

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Cat	ទ	B2	B1-2	B2	3	B2	ខ	3	B2
Yrs	M	L.	Ц	Ч	Z	L	M	S	Г
PMR	Cut Ivy and monitor.	Cut Ivy and monitor.	Clean-out remove deadwood and cut Ivy. Re-evaluate subsequent to Ivy shedding.	Cut Ivy and monitor.	Cut Ivy re-evaluate subsequent to Ivy shedding consider application of crown reduction works to reduce weight extend to south west.	Cut Ivy and clean out. Monitor.	Cut Ivy re-evaluate.	Clean-out remove deadwood and apply crown reduction works re- evaluate on regular basis with regard suitability for retention.	Cut Ivy and clean out. Monitor.
Structural Condition	Entire tree unbalanced to west as result of suppression. Supports limited high crown only.	Slightly distorted as result of suppression. Maintaining good vigour at this time.	Of generally good form and vigour though supporting notable crown deadwood.	Of good general vigour.	Heavily suppressed and notably unbalanced to south west raising concerns regarding overall stability. Heavily Ivy clad.	Supports notable imbalance to west as result of suppression. General vigour is good.	Chronically distorted as result of past suppression. Heavily Ivy cover prevents detailed inspection of middle crown region.	Distorted and unbalanced to south west. Appears to be of reduced vigour with substantial deadwood emanating from heavily Ivy clad stems.	Supports minor imbalance to west. Appears to be of good vigour though supports notable deadwood.
RPA	2.71	5.39	12.41	5.62	4.13	6.30	5.39	6.57	6.49
Dia.	0.23	0.45	1.03	0.47	0.34	0.53	0.45	0.55	0.54
Stems	1	г	L	ſ	-	1		-	I
Spr	0.00 0.00 2.00 4.00	4.00 4.00 3.00 5.00	7.00 8.00 9.00 9.00	5.00 6.00 5.00 4.00	0.00 0.00 6.00 7.00	3.00 2.00 4.00 7.00	0.00 5.00 7.00 3.00	2.00 2.00 4.00 6.00	5.00 1.00 4.00 7.00
	X H S X	ХШХX	ХЩS≯	Zшv≫	X H S X	Z ⊞ N ≷	X H S X	X H N X	ХШУβ
C-Ht.	10.00	4.00	4.00	6.00	7.00	10.00	6.00	5.00	10.00
Ht.	15.00	17.00	23.00	18.00	14.00	19.00 10.00	16.00	17.00	18.00 10.00
Con	ц.	G/F	G/F	G/F	F/P	G/F	F/P	4	ц
	S/M	E/M	M	M	E/M	W	E/M	M	R
Species	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Oak (Quercus robur)	Ash (Fraxinus excelsior)
No.	976	977	978	979	086	981	982	983	984

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Cat	B2	A2	B2	3	C3	3	B2
Yrs	L	L	Г	S	M	Z	L
PMR	Cut Ivy and monitor.	Monitor.	Monitor.	Application of crown reduction works may allow for interim retention.	Cut Ivy and monitor.	Cut Ivy and monitor regularly.	Cut Ivy and clean out. Monitor.
Structural Condition	Unbalanced to west as result of suppression. This be maintained being good vigour.	Of good form and vigour.	Of good form and vigour.	Has sustained traumatic decapitation at 12.00 m resulting in loss of substantial proportion of crown. Remaining crown is of variable vigour with deadwood noted. Will be subject to ongoing decay and further deterioration.	Twin stemmed and distorted from ground level with stem bonding at 3.00 m. Of poor mechanical form though maintaining good vigour.	Originally multi stemmed with north- western stem lost resulting in extensive cavity development and decay near ground level. Remaining crown is Twin stemmed with compression forked at 2.00 m undermining structural integrity and predisposing tree to further mechanical failure. Worthy of retention within woodland scenario.	Entire tree is unbalanced to west and becomes heavily forked at 4.00 m. General vigour is good though deadwood is noted.
RPA	3.09	3.00	2.00	6.95	4.81	9.90	5.39
Dia.	0.26	0.65	0.58	0.58	0.40	0.99	0.45
Stems	1	1	1	1	2	0	I
1	3.00 2.00 3.00 5.00	3.00 3.00 3.00	2.00 2.00 2.00	5.00 6.00 5.07	3.00 3.00 4.00 4.00	8.00 8.00	3.00 3.00 3.00 6.00
	ХШХ¥	ХпхУ	ХШХХ	Zшv≫	X H N X	Z ⊞ N ≷	X H N X
C-Ht.	4.00	3.00	2.00	1.82	2.00	4.00	1.41
	12.00	11.00	10.00	13.00	13.00	17.00	15.00
Con	Ц	IJ	U	ط	FrP	۵	Ľ.
Age	S/M	S/M	S/M	¥	E/M	M	E/M
Species	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Wych Elm (Ulmus glabra)	Horse Chestnut (Aesculus hippocastanum)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)
No.	985	1	2	б	4	5	9

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Cat	R	62	3	R	R	B2	3
Yrs	N/A	W	X	N/A	N/A	J	M
PMR	Monitor with regard to suitability for retention.	Monitor regularly with regard to possible continued decline. Cut Ivy.	Cut Ivy and monitor.	Monitor with regard to suitability for retention.	Remove.	Clean out and cut Ivy. Monitor.	Cut Ivy and monitor.
Structural Condition	Appears to comprise a sucker redevelopment from a previous stump. Is substantially unbalanced to north west with substantial necrotic strip extending from ground level to approximately 5.00 m. Appears to be unstable and is predisposed to collapse. Presents limited threat though is of questionable retention merit.	A mature specimen of reduced vigour.	Heavily unbalanced to north west as result of suppression. May prove to be unstable but present limited threat at this time.	Of reduced vigour with apex now dead. Presents minimal threat but appears to be of Limited future longevity.	Exists as a dead stump.	Twin stemmed from near ground level and heavily Ivy clad. Appears to be maintaining good vigour with minimal deadwood.	A close-knit multi stemmed community apparently arising as sucker redevelopment. Supports numerous compression forks near ground level together with localised decay and cavities. Is maintaining good vigour at this time.
KYA	5.69	4.43	5.00	7.64	0.00	5.48	5.92
Dia.	0.47	0.37	0.42	0.64	0.00	0.55	0.59
Stems	-	-	Г	1	1	2	ĥ
	3.00 0.00 9.00	3.00 3.00 3.00 3.00	2.00 0.00 7.00	2.00 2.00 2.00	0.50 0.50 0.50 0.50	5.00 5.00 8.00 3.00	6.00 5.00 7.00
	X ⊞ N ≷	Z H N ≷	N H N N	X H N X	X H N X	ZENS	X III S X
C-Ht.	4.00		4.00	****	N/A	8.00	0.00
Ht.	13.00 4.00	11.00	10.00	7.00	6.00	15.00	16.00
Con	<u>م</u>	щ	F/P	Ъ	D	ц	F/P
Age	E/M	M	X	E/M	M	EM	E/M
Species	Horse Chestnut (Aesculus hippocastanum)	Holly (Ilex aquifolium)	Hawthorn (Crataegus monogyna)	Holly (Ilex aquifolium)	Holly (Ilex aquifolium)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)
No.	2	~	6	10	11	12	13

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Cat	B2	3	3	B2	3	B2	B2	B2	B2
Vrs	Г	S	S	Ч	M	Г	L	L	L
PMR	Clean out and cut Ivy. Monitor.	Clean out and monitor.	Monitor with regard to suitability for retention.	Cut Ivy and clean out. Monitor.	Cut Ivy and clean out. Monitor.	Clean out and cut Ivy. Monitor.	Clean out and monitor.	Cut Ivy and monitor.	Cut lvy and monitor.
Structural Condition	One sided as a result of suppression. Maintaining good vigour.	Suppressed and distorted but maintaining good vigour. Supports notable decay on lower stem.	Distorted and suppressed. Of reduced vigour resulting from suppression. Supports localised decay and bark necrosis.	Heavily divided near ground level. Suppressed and unbalanced to east. Is maintaining good vigour.	Twin stemmed from ground level and heavily Ivy clad.	Notably unbalanced to north cast as result of suppression. Principal stem Ivy clad with squirrel related bark damage noted within crown structure.	A large specimen of apparently good vigour.	Distorted as result of suppression by near neighbours. Is maintaining good vigour at this time.	Supports minor imbalance to north east and appears to be of reduced vigour.
RPA	5.50	4.58	2.86	6.84	4.77	4.32	12.07	2.67	3.48
Dia.	0.46	0.38	0.24	0.57	0.48	0.36	1.01	0.22	0.29
Stems	1	1	1	1	0	1	1	I	1
Spr	1.00 2.00 5.00 4.00	1.00 3.00 4.00 1.00	3.00 1.00 1.00 2.00	7.00 7.00 4.00 3.00	5.00 5.00 3.00 4.00	5.00 5.00 3.00 3.00	8.00 7.00 8.00 8.00	3.00 3.00 2.00 4.00	4.00 4.00 3.00 3.00
	X E N ≥	× Ξ × ×	≪ N E N	≪ N E N	Z ⊞ N ₿	Z∃ N ≥	≪ N E N	X E N ≥	Z ⊞ N ≥
C-Ht.	6.00	0.91	0.00	8.00	1.00	2.00	6.00	5.00	3.00
-	18.00	7.00	8.00	16.00	9.00	11.00	22.00	10.00	10.00
	G/F	Ь	F/P	ц	ц	G/F	G/F	ц	щ
Age	M	M	M	E/M	M	E/M	X	S/M	M
Species	Ash (Fraxinus excelsior)	Holly (Ilex aquifolium)	Holly (Ilex aquifolium)	Ash (Fraxinus excelsior)	Plum (Prunus cerasifera)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Wych Elm (Ulmus glabra)	Yew (Taxus baccata)
No.	14	15	16	17	18	19	20	21	52

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Cat	B2	B2	S	R	B2	B2	3	3
Yrs	L	F	M	N/A	L	L	M	W
PMR	Cut Ivy and monitor.	Cut lvy and monitor.	Clean out and monitor.	Remove.	Clean out and cut Ivy. Monitor.	Clean out and monitor.	Clean out and apply weight reduction works to heavy lateral limbs. Cut Ivy and monitor.	Clean out and cut lvy. Monitor.
Structural Condition	Of good general form but appears to be of reduced vigour.	Heavily suppressed and distorted, unbalanced to north. Is maintaining good vigour at this time.	Suppressed and unbalanced to north west. It is of reduced vigour.	Rapidly approaching death with substantial proportion of stem effectively defunct and decaying. Unsuitable for retention.	Supports minor imbalance to east. Lower stem heavily Ivy clad.	A large specimen of apparently good vigour.	Notably distorted as result of past suppression in combination with dramatic crown failure. Has sustained notable limb loss and consequential wounding at 14.00 m. Remaining crown appears vigorous though is considered to be predisposed to continued mechanical failure.	Twin stemmed from near ground level and heavily unbalanced to south east. Lower stem has bonded creating an unstable union. Consider to be of poor quality but presents minimal threat at this time.
KIM	5.04	2.83	2.98	5.16	4.85	6.99	11.31	5.79
Dia.	0.42	0.24	0.25	0.43	0.40	0.58	0.94	0.58
Stems	-		1	1	ſ		1	2
1	4.00 3.00 4.00	5.00 3.00 2.00 4.00	5.00 4.00 2.00 4.00	2.00 3.00 3.00 1.00	6.00 6.00 6.00 4.00	4.00 7.00 6.00 4.00	14.00 8.00 8.00 8.00	0.00 5.00 5.00 5.00
	Z H N ≥	X H N ≥	NШSN	X ⊞ N ≷	Z H N ≥	X ⊞ N ≷	X H N X	Z H N ≯
C-Ht.	2.00	2.00	2.00	3.00	3.00	1.00	5.00	6.00
HL.	11.00	10.00	9.00	13.00	15.00	20.00	23.00	17.00 6.00
e	ц	ц	щ	Ч	G/F	G/F	F/P	F/P
0	M	S/M	E/M	М	E/M	M	M	E/M
Species	Ycw (Taxus baccata)	Ash (Fraxinus excelsior)	Yew (Taxus baccata)	Holly (Ilex aquifolium)	Beech (Fagus sylvatica)	Lime (Tilia europea)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)
No.	23	24	25	26	27	28	50	30

-31 -

Cat	3	5	3	3	B2	3	62
Yrs	Z C	x	S	S	L	M	S
PMIR	Monitor.	Clean out and monitor.	Cut Ivy and clean out, apply crown reduction works to northern and castern crown to address imbalance and monitor regularly with regard to suitability for retention.	Cut Ivy and clean out. Monitor.	Clean out and monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.
Structural Condition	Comprises part of thicket like undergrowth. Distorted but presents limited threat.	computes a muu semmed group, me original stem of which is now failing.	Heavily unbalanced to north cast and exhibiting classic signs of decline and deterioration. Current canopy represents approximately 25% of canopy expectation for tree of this age.	A large visually imposing specimen of relatively good vigour though supporting fruiting bodies indicating substantial basal decay. Has sustained past lower canopy failure and is considered likely to deteriorate mechanically weak time. Presents limited threat at this time but must be monitored on a regular basis.	Supports minor imbalance to north but is of generally good form and vigour with a raised canopy.	Unbalanced to north east as a result of suppression. Is maintaining good vigour though has sustained extensive squirrel related bark damage.	Twin stemmed from ground level. Note is made of reduction canopy vigour. Lower stems have sustained localised but notable decay and bark necrosis.
KLA	3.21	11.7	9.01	14.52	3.13	3.48	4.65
Dia.	0.27	17-0	0.75	1.21	0.26	0.29	0.46
Sterns		о	H	-	T	1	2
1	5.00 5.00 4.00 1.00	2.50 2.50 2.50	111.00 8.00 3.00 2.00	12.00 6.00 9.00 10.00	3.00 3.00 3.00 3.00	5.00 5.00 0.00 1.00	2.00 4.00 4.00 3.00
	Z H N N Z	K E N ≥	× π γ β	X H N ≱	₹ N E Z	K S E Z	X H N X
C-HL.	2.00	0000		2.00	10.00	7.00	3.00
III.	8.00	1	17.00	25.00	14.00 10.00	13.00	14.00
Con	<u>г</u> , г.			G/F	G/F	ļr,	Щ
Age	M B/M		X	X	S/M	E/M	M
Species	Portuguese Laurel (Prunus lusitanica) Hollv	(Ilex aquifolium)	Oak (Quercus robur)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Holly (Ilex aquifolium)
No.	31		33	34	35	36	37

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140	B2	B2	3	3	3	B2	5	3	B2
Vrc	L	L	M	M	S	Ч	M	M	Ţ
PMR	Cut Ivy monitor.	Cut Ivy and monitor.	Monitor.	Clean out and monitor.	Remove collapsed stem, clean out and cut Ivy on remaining stems. Monitor.	Cut Ivy monitor.	Clean out and monitor, remove basal suckers.	Clean out and monitor.	Cut Ivy and clean out. Monitor regularly.
Structural Condition	Twin stemmed from near ground level. Distorted as result of suppression but maintaining fair vigour.	Notably unbalanced to east but maintaining good vigour.	Suppressed and distorted but maintaining fair vigour.	Suppressed by neighbouring trees and impacted by failure of adjoining and Elm stem.	Distorted from near ground level, appears to arise as sucker redevelopment. Southernmost stem has failed at 2.00 m and is perched within crown of adjoining Holly tree. Consider to be of limited retention merit.	Young and vigorous though suppressed by proximity of near neighbours.	Twin stemmed from near ground level with mechanically poor basal union supporting sucker extension to south.	Distorted and notably unbalanced to west.	Slightly suppressed and unbalanced. Of reduced vigour with crown apex exhibiting possible early signs of decline.
RPA	2.71	4.01	2.71	2.75	7.10	4.09	3.09	4.62	10.50
Dia.	0.27	0.33	0.23	0.23	0.59	0.34	0.31	0.39	0.88
Stems	2	1		1	I	1	5	1	1
Spr	4.00 4.00 3.00 3.00	3.00 6.00 3.00 0.00	1.00 3.00 2.00	3.00 3.00 3.00 3.00	5.20 7.00 8.00 1.00	3.00 3.00 3.00 3.00	3.00 4.00 5.00 2.00	3.00 0.00 5.00 5.00	8.00 6.00 5.00 8.00
	Z H N ≯	X H S X	X H S A	Хшх≯	Z ⊞ ∾ ≽	Z H N ≯	ZШS≫	Z ⊞ N ≷	N H S A
C-Ht.	1 00	4.00	1.00	1.00	4.00	5.00	7.00	10.00	00.00
Ht.	10.00	14.00	9.00	10.00	16.00	16.00	16.00	17.00	15.00 00.00
Con	ц	Ц	ц	ц	ط	Įr.	щ	Ľ.	щ
Age	M	E/M	E/M	W	W	E/M	M	E/M	W
Species	Holly (Ilex aquifolium)	Sycamore (Acer pseudoplatanus)	Holly (Ilex aquifolium)	Holly (Ilex aquifolium)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Yew (Taxus baccata)
No.	38	39	40	41	42	43	44	45	46

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No.	47	48	49	50	51	52	53	54	55	56
1	Holly (Ilex aquifolium)	Yew (Taxus baccata)	Wych Elm (Ulmus glabra) Stump	Beech (Fagus sylvatica)	Holly (Ilex aquifolium)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)
Age	E/M	M	M	M	M	M	E/M	E/M	M	M
Con	ц	ĽĽ,	D	Ð	G/F	G/F	U	σ	ц	G/F
Ht.	9.00	14.00	8.00	22.00	13.00	18.00	17.00	16.00	18.00	18.00
	0.00	0.00	N/A	2.00	2.00	4.00	1.00	8.00	2.00	8.00
1	Z EI ∾ ≯	X H S X	X H N X	Z Ш S X	X H S X	Z Ⅲ S ¥		Z Ш S X	Z ⊞ ∾ ≯	ХЯХ
Spr	2.00 2.00 2.00	10.00 10.00 7.00 5.00	0.50 0.50 0.50 0.50	7.00 7.00 7.00	4.00 3.00 4.00	3.00 4.00 7.00 4.00	6.00 6.00 6.00 6.00	0.00 5.00 5.00	2.00 4.00 7.00 5.00	4.00 8.00 2.00
Stems	н	-	-	Γ	-	r	1	-	I	г
Dia.	0.26	1.04	0.00	2.23	0.47	0.52	0.52	0.39	0.57	0.48
RPA	3.09	12.45	0.00	26.74	5.65	6.23	6.19	4.70	6.84	5.77
Structural Condition	Suppressed but maintaining good vigour.	Lower limbs to north and east of stem have laid at ground level. Crown vigour is variable with substantial deadwood noted.	In a state of imminent collapse.	Heavily Ivy clad but of apparently good vigour.	Comprises part of general woodland undergrowth. It is good vigour but supports notable Ivy cover.	Drawn up with limited high crown. Of good general vigour.	Of good general form and vigour.	Drawn up and notably unbalanced to south west. Lower stem supports notable Ivy cover.	Notably unbalanced to southwest but maintaining good vigour.	Notably unbalanced to north east but maintaining good vigour.
PMR	Monitor.	Clean out and monitor.	Remove immediately.	Clean out and cut Ivy. Monitor.	Cut Ivy and monitor.	Monitor.	Clean out and monitor.	Cut Ivy and monitor.	Clean out and cut Ivy. Monitor.	Clean out and cut lvy. Monitor.
Yrs	T		N/A	L	F	F	r	F	L	L
Cat	B2	B2	R	B2	B2	A2	A2	B2	B2	B2

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Cat	3	B2	B2	3	C3	R	3	B2	B2
Vrc	S	L	Ъ	S	М	N/A	M	Ч	L
PMR	Cut Ivy and clean out. Monitor regarding suitability for retention.	Clean out and monitor.	Clean out and cut Ivy. Monitor.	Cut Ivy and re-evaluate subsequent Ivy shedding.	Monitor.	Remove.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.
Structural Condition	Chronically suppressed exhibiting evidence of crown failure. Is heavily Ivy clad. Present minimal threat at this time but appears to be of questionable retention merit.	Supports minor imbalance to north east but is of good general form and vigour.	Supports minor imbalance to south. Supports notable Ivy cover.	Heavily Ivy clad preventing detailed inspection. Principal stem appears disproportionately large for retained canopy suggesting possibility of crown failure and breakage obscured by Ivy cover.	Notably unbalanced to north and suppressed by adjoining trees. Is maintaining fair vigour.	Exists as a partially collapsed stump.	Substantially distorted but maintaining good vigour. Currently supports notable Ivy.	Heavily Ivy clad preventing detailed inspection though appears to be of good vigour at this time.	Young and vigorous though heavily Ivy clad.
RPA	4.24	5.69	3.13	8.56	3.32	0.00	3.48	6.72	2.06
Dia.	0.35	0.47	0.26	0.71	0.28	0.00	0.29	0.56	0.17
Stems	-	1	1	1	1	1	Ţ	1	Ţ
	4.00 3.00 4.00	5.00 6.00 1.00 1.00	1.00 2.00 3.00	5.00 5.00 4.00	4.00 1.00 0.00 2.00	0.25 0.25 0.25 0.25	0.00 3.00 5.00 2.00	4.00 5.00 3.00	2.50 2.50 2.50 2.50
	× α α Σ	X H N A	X ⊞ N ≥	M N N N	Z E S ≥	ХШХX	X H N ≯	Z H S A	N H S A
C-Ht.	6.00	12.00	0.00	4.00	0.00	N/A	6.00	8.00	3.00
Ht.	13.00	18.00 12.00	11.00	17.00	10.00	8.00	12.00	19.00	9.00
C	<u>م</u>	G/F	G/F	щ	F	Q	F/P 1	G/F 1	G/F
Age	E/M	M	M	W	M	E/M	E/M	W	S/M
Species	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Holly (Ilex aquifolium)	Sycamore (Acer pseudoplatanus)	Holly (Ilex aquifolium)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Wych Elm (Ulmus glabra)
No.	57	58	59	60	61	62	63	64	65

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Cat	B2	B2	B2	B2	C3	B2	3	B2	8
Yrs	L	 -	L	Ч	M	Г	M	L	S
PMR	Monitor.	Cut Ivy and monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Remove dead stem to south east. Monitor.	Cut Ivy and clean out. Monitor regularly.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out re-evaluate subsequent to Ivy shedding.	Cut Ivy and clean out re-evaluate subsequent to Ivy shedding.
Structural Condition	Comprises part of general woodland thicket.	Unbalanced to south but maintaining fair vigour.	Supports limited high crown with entire stem Ivy clad. Appears to be of good vigour at this time.	Appears to comprise a sucker redevelop from a now defunct plant.	Heavily distorted as a result of suppression. All primary stems and limbs are heavily Ivy clad.	Notably unbalanced to north and supporting extensive Ivy cover.	Suppressed and distorted but maintaining good vigour.	Heavily Ivy clad preventing detailed inspection though visible crown portions appear vigorous.	Supports disproportionately large stem for canopy suggesting possibility of mechanical crown failure. Entire stem and Crown is obscured by heavy lvy cover at this time. Visible portions of crown appear vigorous.
KLA	2.60	3.97	6.91	2.33	5.88	5.27	2.71	4.62	6.61
Dia.	0.22	0.33	0.58	0.19	0.49	0.44	0.23	0.39	0.55
Stems	1	++		Π	1	1	T	1	1
	3.00 3.00 3.00 3.00	1.00 2.00 2.00 2.00	3.00 3.00 3.00 3.00	2.50 2.50 2.50 2.50	5.00 5.00 5.00 5.00	4.00 4.00 0.00 3.00	4.00 5.00 4.00 3.00	4.00 4.00 2.00	2.00 3.00 3.00 3.00
	X H N X	ХШSX	X H S A	ХШSX	X H S A	Z H N ≥	Z E N ≥	≤ N E N	Z H N ≥
C-Ht.	1.00	2.00	00.0	1.00	1.00	2.00	3.00	6.00	00.6
	00.6	11.00	17.00	8.00	13.00	15.00	9.00	14.00	15.00
-	ц	G/F 1	H	ц	F/P	щ	ц	ц	ц
	E/M	M	М	E/M	E/M	E/M	S/M	E/M	M
es	Holly (Ilex aquifolium)	Holly (Ilex aquifolium)	Sycamore (Acer pseudoplatanus)	Holly (Ilex aquifolium)	Horse Chestnut (Aesculus hippocastanum)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)
1	66	67	68	69	70	71	72	73	74

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-	3	B2	1 C3	. B2	B2	B2	B2	3	B2
Y'rs	S	1	M	L	<u>Г</u>	T	T	M	
PMR	Cut Ivy and clean out re-evaluate subsequent to Ivy shedding.	Cut lvy and monitor.	Cut Ivy monitor.	Cut lvy and monitor.	Cut Ivy and clean out.	Cut Ivy and clean out. Monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and re-evaluate. Clean out and monitor.
Structural Condition	Appears to support disproportionately small crown for stems size suggesting possibility of crown failure. Stem and crown currently Ivy clad preventing detailed inspection.	Suppressed distorted and unbalanced to south but maintaining good vigour.	Principal stem heavily unbalanced to west and Ivy clad. Crown appears vigorous at this time.	A drawn up whip, part of an extended group of whips. Suppressed and unbalanced to south.	Principal stem heavily Ivy clad though canopy form appears vigorous.	An elongated and drawn up specimen supporting a limited high crown. Principal stem heavily Ivy clad preventing detailed inspection.	Drawn up and supporting limited high crown. Appears to be of good vigour but stem is heavily Ivy clad.	Drawn up and whip like with principal stem being heavily Ivy clad.	Notably unbalanced to east but apparently maintaining good vigour. Principal stem is heavily Ivy clad preventing detailed inspection.
NPA	6.91	3.21	3.59	2.64	6.65	6.42	8.25	3.32	6.57
DIA.	0.58	0.27	0.30	0.22	0.55	0.53	0.69	0.28	0.55
Stems	-	I		J	1		1	1	1
1	2.00 3.00 4.00 3.00	1.00 3.00 6.00 3.00	3.00 2.00 6.00 4.00	1.00 2.00 1.00	4.00 5.00 5.00 4.00	4.00 7.00 3.00 2.00	5.00 2.00 4.00 7.00	3.00 3.00 2.00	8.00 9.00 6.00 1.00
- 1	× Ξ Ν Ξ	₹ N E N	X E S X	X H N ≥	X H N ≥	N H N N	X H N ≥	Z H N ≯	X E N
C-III.	8.00	3.00	6.00	5.00	6.00	12.00	13.00	6.00	15.00
III.	17.00	14.00	13.00	13.00	18.00	19.00 12.00	19.00	14.00	20.00
-	ц	ц	(<u>r.</u>	ĽL,	G/F	щ	G/F	F/P	ц
Age	Z	E/M	E/M	S/M	E/M	M	M	E/M	M
Species	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
.001	75	76	11	78	79	80	81	82	83

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Cat	B2	3	3	3	62	B2	C3	3
Yrs	Ľ	W	M	M	M	T	M	S
PMR	Clean out remove larger deadwood cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and clean out monitor regularly regarding suitability for retention.	Cut Ivy monitor.	Clean out remove large deadwood and cut Ivy. Monitor regularly.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut lvy and monitor.	Cut Ivy and monitor.	Clean out and monitor regularly.
Structural Condition	A large and apparently vigorous specimen heavily Ivy clad preventing detailed inspection.	Crown structure is distorted presumably as a result of squirrel damage. Lower stem supports notable area of decay. Consider to be of reduced long-term value.	A drawn up whip suppressed and nature.	A large triple stemmed specimen supported upon substantial compression forks. Crown vigour appears good though middle crown region is heavily obscured by Ivy cover.	Notably unbalanced to south and apparently maintaining good vigour. Entire crown structure is heavily Ivy clad preventing detailed inspection.	Drawn up with limited high crown. Appears to be of good vigour though lower stem and Middle crown is heavily Ivy clad.	Suppressed and unbalanced to cast of maintaining good vigour.	Of apparently good vigour though is supported upon distended bases suggesting possibility of internal decay. General vigour appears good at this time.
KLA	11.99	3.71	2.02	14.13	5.58	6.57	2.41	4.66
Dia.	1.00	0.31	0.17	1.18	0.46	0.55	0.20	0.39
Stems	I	-	1	-		-	1	F
-1	8.00 9.00 7.00 7.00	5.00 5.00 4.00 4.00	2.00 2.00 3.00	7.00 7.00 6.00 7.00	1.00 4.00 8.00 4.00	5.00 6.00 6.00 6.00	3.00 4.00 2.00 0.00	3.00 3.00 5.00 4.00
	× α α Σ	X E N X	Z E ⊗ ≥	A a s a	Z ⊞ S ≱	≤ N E N	Z H N ≯	X H S X
C-HL.	6.00	3.00	2.00	7.00	10.00	15.00	3.00	12.00
	21.00	12.00	10.00	19.00	18.00 10.00	22.00	9.00	18.00 12.00
1	G/F 2	F/P 1	F	Ц	G/F 1	G/F 2	Щ	Ľ,
Age	M	E/M	S/M	W	M	X	S/M	E/M
es	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)
1	84	85	86	87	88	89	06	16

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0.44	BB	B2	8	B2	B2	C3	3	B2
Vrc	S	Ţ	S	Г	Г	M	s	L
PMR	Clean out and cut lvy re-evaluate on a regular basis with regard to potential deterioration.	Cut Ivy and monitor.	Clean out remove large deadwood and apply crown reduction works to address overall crown imbalance. Cut Ivy and monitor on regular basis with regard to suitability for retention	Cut Ivy and clean out, re-evaluate subsequent to Ivy shedding.	Cut Ivy and monitor.	Monitor.	Consider early removal.	Clean out remove deadwood and cut Ivy. Monitor.
Structural Condition	A large specimen of variable Crown vigour with dieback and decline evident within the crown form. Middle crown area heavily obscured by Ivy cover.	Of drawn up and column form, heavily lvy clad.	Heavily Ivy clad with substantial bark necrosis and bark damaged near ground level. Stag heading and deadwood is evident within crown.	Notably unbalanced to east but apparently of good vigour. Middle crown region is heavily Ivy clad preventing detailed inspection. Is heavily forked at 5.00 m.	Suppressed and slightly distorted but maintaining good vigour.	A suckering group comprising part of the woodland under story.	Remaining crown is substantially unbalanced to cast, towards adjoining buildings and yard. Retention would require application of radical pruning works to address imbalance together with constant monitoring.	An open crown specimen of apparently good vigour.
RPA	10.08	3.59	10.12	6.38	3.09	4.62	7.49	8.86
Dia.	0.84	0.30	0.84	0.53	0.26	0.39	0.62	0.74
Stems	-	-	I	1	1	1		1
	6.00 6.00 6.00 6.00	2.00 2.00 3.00	6.00 7.00 2.00 0.00	7.00 7.00 6.00 2.00	3.00 3.00 4.00 1.00	4.00 2.00 4.00	9.00 8.00 4.00 0.00	5.00 4.00 8.00 7.00
1	Z H N ≯	Z E N ≥	N E S N	X H N ≯	X H N ≯	X H S X	≤ α H N	X H S X
C-HL.	6.00	7.00	6.20	8.00	4.00	0.00	2.00	00.6
Ht.	20.00	15.00		18.00	10.00	11.00	18.00	18.00
	ц	Ц		ц	۲.	ц	F/P	ц.
Age	W	E/M	M	W	S/M	S/M	X	M
opecies	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Oak (Quercus robur)	Sycamore (Acer pseudoplatanus)	anus)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
-01	92	93	94	ç	96	97	98	66

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.001	100	101	102	103	104	105	106	107
Species	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)	Wych Elm (Ulmus glabra)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)
Age	S/M	E/M	S/M	E/M	M	E/M	S/M	S/M
Lon Lon	Г,	F/P	٩	ц	ц	G/F	F/P	Ľ,
HL.	14.00	14.00	9.00	11.00	20.00	13.00	9.00	11.00
- 2	7.00	5.00	1.00	7.00	20.00 12.00	5.00	2.00	6.20
1		ХШSX	Z H N ≯	× Ξ Ν Σ	≪ α E Z	N E N M	Z ⊞ ∾ ≽	NEN
Spr	4.00 3.00 4.00 2.00	4.00 3.00 4.00 4.00	3.00 7.00 4.00 2.00	3.00 7.00 5.00 2.00	2.00 4.00 7.00 3.00	5.00 4.00 2.20	3.00 3.00 3.00	2.00 3.00 2.00
Stems	-	1	1	-	-	1	F	-
Dia.	0.27	0.38	0.29	0.37	0.69	0.27	0.25	0.23
	3.21	4.51	3.48	4.47	8.33	3.29	2.94	2.75
1	Of apparently good vigour but has sustained canker related dieback and damage.	Lower stem Jvy prevents detailed inspection of the stem .Appears to have sustained damage and supports notable dieback. Substantial deadwood supported within crown suggests possible mechanical failure.	Heavily distorted and unbalanced to cast. Comprises part of general undergrowth thicket.	Supports minor imbalance to east and is heavily Ivy clad preventing detailed inspection. Upper crown exhibits evidence of past storm damage and mechanical failure.	Drawn up with limited high crown supported on the notably distorted stem with deflection to south. General vigour appears fair at this time.	Of relatively good form and vigour.	Distorted and heavily Ivy clad.	Apparently vigorous but heavily Ivy clad.
	nd	have table pported	to cast. owth	and is sd d	stem			vy
PMIR	Clean out and monitor.	Clean out and re-evaluate subsequent to ivy cutting.	Monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and clean out. Monitor.	Clean out and monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and re-evaluate.
Yrs	S	S	M	M	M	۲.	M	1
Cat		ទ	C3	3	C3	B2	3	B2

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Cat	B2	3	B2	B2	B2	3	B2	3
Yrs	r	M	Ţ	Ļ	L	W	L	S
PMR	Clcan out and monitor.	Clean out remove existing deadwood. Apply crown weight reduction works to the southern side of crown. Monitor regularly.	Monitor.	Monitor.	Monitor.	Clean out and monitor on regular basis.	Clean out and monitor.	Clean out and monitor regularly with regard to suitability for retention.
Structural Condition	Slightly distorted but maintaining good vigour.	Supports minor imbalance to south, towards adjoining buildings. Crown vigour is variable with a notably reduced vigour about crown apex. Crown system is supported upon heavy three-way fork union with notable bark inclusions predisposing tree to mechanical failure.	Of relatively good form and vigour though slightly suppressed.	Notably unbalanced to south east but maintaining good vigour.	Young and vigorous, comprising part of woodland under story.	Drawn up with limited high crown, unbalanced to south west. Of good vigour but has sustained past storm damage.	Twin stemmed from ground level and apparently maintaining good vigour. Has sustained minor storm damage in past.	Notably unbalanced to south and supports storm damage wound and associated cavity at 6.00 m. As of good vigour at this time and would appear to present limited threat.
NFA	3.02	11.92	2.14	2.90	2.06	5.73	7.39	4.32
Dia.	0.25	0.99	0.18	0.24	0.17	0.48	0.74	0.36
Stems	-	-	1	1	-	I	5	T
1	4.00 2.00 2.00	6.00 9.00 8.00 8.00	2.00 2.00 2.00	2.00 3.00 1.00	3.00 3.00 3.00 3.00	4.00 0.00 7.00 6.00	6.00 6.00 7.00 3.00	2.00 5.00 6.00 3.00
	Z ⊞ N §	Z Ш S X	Z ⊞ S ≱	ZШS≫	Z H N ≯	ХШХX	ZШN¥	N E N
C-HL	6.00	8.00	1.00	0.00	3.00	10.00	9.00	6.00
- 1	10.00	23.00	10.00	11.00	11.00	18.00 10.00	18.00	16.00
	ц.	ш.	ĹŢ,	Ľ,	Ľ,	ц	[<u>T</u> _	F/P
Age	S/M	M	E/M	M	S/M	M	M	E/M
	Wych Elm (Ulmus glabra)	Beech (Fagus sylvatica)	Holly (Ilex aquifolium)	Holly (Ilex aquifolium)	Wych Elm (Ulmus glabra)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
NO.	108	109	110	111	112	113	114	115

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116	011	117	118	119	120	121	122	123	124
Wrich Elm			Beech (Fagus sylvatica)	Holly (Ilex aquifolium)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Wych Elm (Ulmus glabra)
ARC	E/M	E/M	W	E/M	E/M	S/M	E/M	E/M	E/M
5	ц	Ρ	Р	Ľ.	ц.	ц	щ	H	ц
111	15.00	12.00	14.00	11.00	15.00	13.00	13.00	16.00	15.00
_1	00.7	3.00	N/A	2.00	15.00 10.00	10.00		3.00	4.00
	N H N A	X ⊞ N ¥		≪ N ⊞ N	₹ N E N		X H S X	Z ⊞ N ≥	N H N A
Spr	4.00 3.00 3.00	0.25 0.25 0.25 0.25	0.25 0.25 0.25 0.25	3.00 3.00 2.00 1.00	4.00 3.00 1.00	2.00 2.00 2.00	4.00 4.00 4.00 2.00	5.00 5.00 4.00 4.00	3.00 3.00 3.00
Stems	-	1			1	Г	3	1	1
	0.26	0.31	0.91	0.20	0.23	0.21	0.43	0.28	0.25
	3.09	3.71	10.89	2.44	2.75	2.48	4.30	3.32	2.98
1	Of generally good form and vigour.	Crown spread not applicable. Principal stem has sustained delamination fracture and is collapsing to east.	Exists as a dead and substantially decayed stump. Appears to present limited threat at this time but will collapse subject to ongoing decay.	Suppressed and one-sided. Has sustained past pruning of western branches. Comprises part of general woodland undergrowth.	Supports minor imbalance to north east. Remains vigorous.	Young and vigorous but supporting heavily Ivy cover.	Multi stemmed from near ground level with general imbalance to east. All stems support notable Ivy cover. Upper crown illustrates squirrel related bark damage.	Apparently vigorous but supporting extensive Ivy cover. Exhibits signs on bark included compression forked at 2.50 m.	Young and vigorous, of generally good balance.
PMR	Monitor.	Remove immediately.	Remove	ed Clean out and monitor.	t. Monitor.	Cut Ivy and monitor.	Cut Ivy and clean out, monitor ns regularly.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Monitor.
Yrc.	T	N/A	N/A	X	F	M	W		
Cat	-	R	R	3	B2	8	C3	B2	B

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Cat	B2	Я	B2	B2	ប	B2
Yrs	Ч	N/A		Ц	s	Г
PMR	Cut Ivy and monitor	Consider early removal.	Cut Ivy and re-evaluate	Cut Ivy and re-evaluate	Cut Ivy and re-evaluate subsequent to Ivy shedding with regard to suitability for retention.	Cut Ivy and clean out remove deadwood. Re-evaluate subsequent to Ivy shedding
Structural Condition	Young and vigorous, of apparently good form.	Exists as a remnant of a once larger tree with the entire western side of crown now lost resulting in major damage to lower stem. Remaining Western crown will be subject to debilitation and decay of stem. Appears to present minimal threat at this time but will collapse in time.	Of apparently good vigour though supporting notable Ivy cover within Middle and upper crown.	Apparently of good vigour and balanced but heavily Ivy clad.	A particularly large and drawn up specimen exhibiting signs of variable errown of vigour. Stem is completely Ivy clad for 70% of extent. Anomalies of the stem of former exist at 12.00 m suggesting high likelihood of prior mechanical failure. Current Ivy levels prevent detailed inspection. Concerns exist with regard to mechanical integrity of tree.	A particularly large specimen whose overall crown form has been influenced by proximity of the near neighbours. Crown vigour is generally good but of variable exhibiting deadwood carriage at extremities suggesting reduction in overall vigour. Principal stem is heavily lvy clad preventing detailed inspection.
KLA	2.90	6.65	3.48	4.13	11.31	12.38
Dia.	0.24	0.55	0.29	0.34	0.94	1.03
Stems	1	н	1	1	-	-
Spr	3.00 3.00 3.00 3.00	5.00 6.00 1.00	4.00 3.00 3.00 4.00	3.00 4.00 4.00 4.00	8.00 8.00 8.00	9.00 8.00 5.00
	X H S X	× Ξ × Ξ	Z ⊞ N ≱	Z ⊞ N ≥	Z H N ≥	A S E Z
C-Ht.	4.00		6.00	4.00	6.00	3.00
Ht.	15.00	14.00	16.00	16.00	26.00	26.00
Con	G/F	d	U	Ľ,	Г с ,	Ľ,
-	EM	E/M	E/M	E/M	М	м
Species	(- S	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)
No.	125	126	127	128	129	130

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Cat	B2	B2	3	3	C3	3
Yrs	L L	r	M	S	M	Ĺ
PMR	Cut Ivy and re-evaluate subsequent to Ivy shedding. Clean out remove existing deadwood.	Cut Ivy and re-evaluate subsequent to Ivy shedding. Clean out remove larger deadwood. Monitor regularly	Cut Ivy and clean out. Re- evaluate subsequent to Ivy shedding and monitor regularly with regard to deterioration of lower stem.	Cut Ivy and re-evaluate subsequent to Ivy shedding. Clean out remove deadwood and monitor regularly regarding suitability for retention.	Cut Ivy and monitor.	Monitor.
Structural Condition	Suppressed and distorted as result of proximity to near neighbours. Principal stem is heavily Ivy clad preventing detailed inspection. General vigour appears good at this time.	proximity to near neighbours. Principal stem is heavily Ivy clad preventing detailed inspection. General vigour appears good at this time. Of variable crown vigour suggesting possible onset of decline. Principal stems are heavily Ivy clad preventing detailed inspection. Of fair vigour though principal stem is heavily Ivy clad. Full inspection is impossible at this time. Note is made of substantial wound on southern side of lower stem that is already subject to superficial decay and is considered likely to deteriorate and undermine tree health and stability in time.		Lower stem is substantially affected by cavity development on southern side attaining a minimum of 50% of cross- section. Crown vigour is notably poor with chlorosis evident. Principal stem is heavily Ivy clad preventing detailed inspection. Considered to be of limited retention value and will require removal within short term.	A small apparently naturally arising sucker unbalanced to north west as a result of suppression by near neighbours.	Part of the woodland's natural regeneration. Remains vigorous but is notably distorted.
RPA	10.62	11.31	11.84	9.55	2.56	3.32
Dia.	0.88	0.94	66.0	0.80	0.21	0.28
Stems	Т			-	T	1
1	7.00 5.00 6.00 3.00	9.00 6.00 7.00 7.00	4.00 6.00 6.00 6.00	7.00 5.00 5.00	4.00 0.00 0.00 3.00	5.00 4.00 1.00 3.00
1	× Ξ Ν Σ	X H N X	X H N X	X H N X	Z H N ≯	X H S A
C-Ht.	3.00	3.00	6.00	2.00	2.00	4.00
	21.00	23.00	24.00	24.00	10.00	13.00
-	E.	ш.	FIP	d	F/P	Н
	X	M	M	W	S/M	S/M
cs	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)
No.	131	132	133	134	135	136

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Cat	B2	R	R	B2	B2	B2	R	R
Yrs	1	N/A	N/A	Г	L	L	N/A	N/A
PMR	Cut Ivy and monitor.	Remove.	Consider early removal.	Clean out and monitor.	Cut Ivy and clean out. Monitor.	Clean out to remove deadwood. Monitor.	Cut Ivy and monitor regularly.	Consider early remove.
Structural Condition	Comprises part of the woodland's natural regeneration.	Exists as a decapitated and decayed stump. Impromptu collapse is expected.	Exists as a decapitated stump supporting minimal soccer regeneration. Present minimal threat but is of minimal retention merit.	A drawn up specimen supporting a limited high crown. Crown supports notable deadwood and exhibit signs of past storm damage. Canopy appears vigorous at this time.	Slightly on arts to south and heavily Ivy clad preventing detailed inspection. Supports notable deadwood and minor imbalance to south.	Of apparently good vigour with principal stem heavily Ivy clad preventing detailed inspection. Cut Ivy and re-evaluate subsequent to Ivy shedding.	Of apparently good vigour with principal stem heavily Ivy clad. Note is made of slime fluxing on lower stem.	Of drawn up form with limited high crown. Canopy vigour is notably poor with apical dieback in evidence. Consider to be in decline and likely to deteriorate further. Of particularly limited potential longevity and likely to require early removal.
N'A	3.21	0.00	4.70	7.91	4.47	11.84	5.88	6.99
DIA.	0.27	00.0	0.39	0.66	0.37	0.99	0.49	0.58
orems	1	1		-r	1	1	I	I enter a second se
1	4.00 3.00 2.00	0.25 0.25 0.25 0.25	2.00 2.00 2.00	2.00 5.00 6.00 4.00	2.00 4.00 3.00	7.00 4.00 6.00 6.00	4.00 5.00 4.00 4.00	6.00 3.00 6.00
1	Z ⊞ N ≯	X H N ≥	N E N N	X H N X	× Ξ N ×	≪ N E N	Z ⊟ N ≷	Z ⊞ N ≽
	4.00	N/A	6.00	00.6	5.00	3.00	2.00	7.00
1	14.00	10.00	9.00	20.00	15.00	21.00	17.00	24.00
-	щ	Ч	d	L.	Г.	Ц	ГЦ I	d
ARC	E/M	M	E/M	W	E/M	M	M	M
	Cherry is avium)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Horse Chestnut (Aesculus hippocastanum)	Beech (Fagus sylvatica)
-017			139	140	141	142	143	144

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400	R	R	3	B2	B2	B2	B2	R	3
Vec	N/A	N/A	M	L	L	F	Г	N/A	M
PMR	Consider early removal.	Remove.	Cut Ivy and clean out monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Re- evaluate subsequent to Ivy shedding	Remove	Cut Ivy and monitor.
Structural Condition	Apparently vigorous but has sustained traumatic damage at 12.00 m resulting in extensive cavity development that is considered likely to undermine upper crown stability. Consider the unsuitable for retention as result of collapse risk.	Exists as a decapitated stump	Arises as natural regeneration. Is heavily Ivy clad, distorted and damaged by squirrel feeding.	Exists as naturally arising regeneration. Unbalanced to north-west of maintaining good vigour.	Supports a competitive sucker arising near ground level. It is heavily Ivy clad but remains vigorous.	Young and vigorous though slightly suppressed by near neighbours.	Heavily Ivy clad preventing detailed inspection though vigour appears fair at this time.	Exists as a decapitated stump. Considered likely to collapse.	Comprises part of natural regeneration. Is of distorted form and supports minor Ivy
RPA	6.84	8.40	2.71	2.98	6.04	2.83	8.82	10.31	2.33
Dia.	0.57	0.70	0.23	0.25	0.50	0.24	0.74	0.86	0.19
Stems	-	I	-	I	1	F	T	-	1
1	6.00 4.00 7.00	1.00 1.00 1.00 1.00	3.00 4.00 1.00 2.00	4.00 4.00 2.00 1.00	3.00 3.00 5.00 5.00	3.00 3.00 3.00	5.00 5.00 4.00 4.00	1.00 1.00 1.00	3.00 3.00 3.00
_	Z H N ≥	Z H N ≱	Zш∾≽	ХШХ¥	Z ⊞ N ≽	NES	X H N X	X H S X	X H S A
C-HL.	10.00	N/A	5.00	6.00	6.00	7.00	9.00	N/A	5.00
LIL.	25.00	8.00	10.00	13.00	17.00	13.00	18.00	10.00	9.00
Con		4	പ	ц	ц	ĽL,	۲L,	Ρ	н
Age	W	M	S/M	S/M	X	E/M	W	M	S/M
ollectes	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Oak (Quercus robur)	Sycamore (Acer pseudoplatanus)	Wych Elm (Ulmus glabra)
	C41	146	147	148	149	150	151	152	153

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Cat	B2	3	3	3	R	8
Yrs	L	M	M	M	N/A	X
PMR	Cut Ivy and monitor.	Clean out and monitor regularly.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and monitor	Remove.	Cut Ivy and monitor.
Structural Condition	0 f drawn up form It is developing notable Ivy-cover on principal stem. Currently maintains good vigour and supports limited deadwood.	Notably unbalanced as a result of woodland suppression. Multi stemmed from lower level with all stems heavily Ivy clad. But apparently vigorous but has sustained local storm damage in past and supports visible deadwood. Ivy cover prevents detailed inspection. Cut Ivy and re-evaluate subsequent to Ivy shedding with particular regard to past storm damage and possible localised decay.	Heavily unbalanced to north west as a result of suppression. Lower stem to mid crown is heavily Ivy clad preventing detailed inspection. Concerns exist regarding long-term stability in light of imbalance.	Of generally good vigour though distorted and unbalanced to north as result of suppression.	Originally Twin stemmed, one stem has collapsed from ground level with the second stem decapitated at 9.00 m. Unsuitable for retention	Notably unbalanced to north as result of woodland suppression. Multi stemmed and heavily Ivy clad, considered to be of distorted form. Of questionable long-term value but present limited threat at this time.
KFA	5.88	12.03	4.32	3.21	0.00	4.24
Dia.	0.49	1.00	0.36	0.27	0.00	0.35
Stems	-	I	1	1	5	Ţ
Spr	4.00 6.00 5.00	9.00 3.00 7.00	6.00 0.00 5.00	5.00 4.00 3.00	1.00 1.00 1.00	6.00 3.00 3.00 3.00
	ZⅢN≯	Z ⊞ N ≱	Z ⊞ N ≱	ZHSS	Z H N ≯	X H N X
C-Ht.	3.00	3.00	8.00	0.00	N/A	
Ht.	18.00	18.00	15.00	9.00	10.00	11.00
Con	- ц	Ľ.	F/P	Ц	d	F/P
Age	E/M	M	E/M	S/M	M	E/M
Species	ylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
No.	154	155	156	157	158	159

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	160	161	162	163	164	165	166
1	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
Age	E/M	Z	M	E/M	S/M	M	M
1	F/P	G/F	G/F	Ľ,	۲.	ц	ц
÷	12.00	17.00		17.00	14.00	18.00	18.00
	0 2.00	0 4.00	20.00 12.00	0 6.00	3.00	00.6 (0 11.00
1	× α α Σ	M S H N	К Ω E Z	≪ N E N	太 E N N	Z ⊞ S ₹	A S E Z
Spr	7.00 2.00 1.00 3.00	6.00 4.00 2.00 5.00	5.00 5.00 3.00 5.00	3.00 5.00 3.00	3.00 3.00 4.00 2.00	5.00 4.00 3.00	3.00 4.00 6.00 4.00
Stems	-	1	1	1	1	I	
	0.52	0.51	0.68	0.44	0.28	0.52	0.54
RPA	6.26	6.15	8.21	5.23	3.36	6.23	6.53
-						1	
Structural Condition	Arising from embankment edge and notably unbalanced to north as result of woodland suppression. Heavily Ivy clad preventing detailed inspection.	Supports general imbalance to north as result of suppression by near neighbours. General vigour appears good though middle ground area is heavily Ivy clad preventing detailed inspection.	Drawn up with limited high crown, obscured by notable Ivy cover. General vigour appears good with limited deadwood carriage.	Of distorted form as a result of suppression by near neighbours. Of apparently good vigour though supporting notable Ivy cover.	Distorted as result of suppression and supporting notable Ivy cover. Of apparently good vigour at this time.	Of drawn up form with limited high crown. Use of apparently good vigour though supports notable Ivy cover.	Supports notable deflection to south and has sustained mechanical damage and subsequent localised decay at 15.00 m potentially undermining integrity and stability of upper crown. Consider to present minimal threat within current context.
PIMIR	Cut Ivy and re-evaluate subsequent Ivy shedding.	Cut Ivy and clean out, remove collapsed stem currently lodged within crown. Monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding. Monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out and monitor deterioration of upper crown and wound
Yrs	W	۲	Ч	Ч	Г	L	W
Cat	5	B2	B2	B2	B2	B2	3

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Cat	B2	3	B2	3	62	B2	3	C3
Wrs.	-L	M	L	M	M	1	M	Z
PMIR	Cut Ivy and clean out to remove deadwood. Monitor	Monitor.	Cut Ivy and clean out. Monitor with regard to potential deterioration in future	Cut Ivy and re-evaluate subsequent to Ivy shedding. Remove deadwood and monitor regularly with regard to continuity of decline and requirement for remedial action	Cut Ivy and monitor.	Monitor.	Monitor.	Monitor.
Structural Condition	Of drawn up form with limited high crown. Principal stem and middle ground area heavily Ivy clad.	Slightly suppressed by canopy cover and comprising part of general woodland under story.	Crown vigour is variable with minor deadwood noted at this time.	Heavily obscured by extensive Ivy growth that prevents detailed inspection. Entire crown is notably unbalanced to west and is variable vigour with deadwood noted suggesting possible onset of decline.	Of notably distorted form, comprising part of general woodland undergrowth.	Slightly distorted, comprising part in woodland natural regeneration.	Twin stemmed from near ground level and comprising part of general woodland undergrowth.	Notably unbalanced to north west as result of suppression. Comprises part of general woodland under story.
KIN	8.14	4.09	7.79	9.21	3.74	2.48	4.27	2.44
DIA.	0.68	0.34	0.65	0.77	0.31	0.21	0.43	0.20
Stems	-	H	1	1	1	1	5	1
	5.00 5.00 6.00 4.00	3.00 4.00 2.00	6.00 5.00 4.00 5.00	5.00 4.00 5.00 10.00	2.00 4.00 3.00	3.00 3.00 3.00	3.00 3.00 3.00	3.00 3.00 0.00 0.00
1	Z H N ≯	ZШSЖ	Z H 2 ≯	Z H N ≥	Z H N ≯	ZШS>	X H S X	X E S X
	12.00	0.00	10.00	8.20	8.20	6.00	0.00	1.00
nu.	22.00 12.00	10.00	21.00 10.00	19.00	11.00	10.00	00.6	8.00
Con	G/F	ц	ц	F/P	ц	G/F	Ľ.	ц
Age	M	W	M	M	E/M	S/M	E/M	E/M
Species	Ash (Fraxinus excelsior)	Holly (Ilex aquifolium)	Beech (Fagus sylvatica)	Wych Elm (Ulmus glabra)	bra)	Elm s glabra)	Holly (Ilex aquifolium)	Holly (Ilex aquifolium)
NO.	167	168	169	170	171		1	174

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C.at	3	B2	B2	R	R	B2	3	B2
Y'rs	W	r	L	N/A	N/A	L	M	L
PMR	Cut Ivy and re-evaluate subsequent to Ivy shedding with regard to suitability for retention	Cut Ivy and clean out. Re- evaluate subsequent to Ivy shedding.	Cut Ivy and clean out. Monitor.	Remove.	Remove.	Cut Ivy and clean out. Monitor.	Cut Ivy and clean out, monitor regularly with regard to continued decline and suitability for retention.	Cut Ivy and clean out to remove deadwood, re-evaluate subsequent to Ivy shedding.
Structural Condition	Heavily unbalanced to north presumably as a result of past suppression. Concerns exist with regard to mechanical integrity and stability. All stems are heavily Ivy clad preventing detailed inspection. Crown vigour is considered to be below that expected for tree of this age.	A large specimen of apparently good vigour. Supports notable Ivy cover on principal stem preventing detailed inspection.	Notably unbalanced to north west raising concerns regarding long-term stability. Is of apparently good vigour at this time.	Exists as a decapitated and Ivy clad stump.	In a state of imminent collapse.	Generally unbalanced to north cast. It is of apparently good vigour though is heavily Ivy clad	Heavily Ivy clad with substantial deadwood particularly with the lower canopy. Canopy vigour appears to be reduced suggesting onset of decline.	One drawn up form with limited high crown. Lower canopy supports notable deadwood. Heavily Ivy cover prevents detailed inspection.
IKPA	6.38	12.49	5.58	8.40	4.97	8.02	8.33	6.42
DIA.	0.53	1.04	0.46	0.70	0.41	0.67	0.69	0.53
Stems		-	1	1	1	1	T.	1
- 1	10.00 6.00 1.00	8.00 7.00 6.00 7.00	9.00 5.00 1.00 2.00	1.00 1.00 1.00	1.00 1.00 1.00	8.00 9.00 5.00	2.00 5.00 5.00 5.00	4.00 3.00 4.00 3.00
	Z E N ≥	Z ⊞ S ≷	X H S A	X H S X	NESA	NES	ZШS>	M E N
C-HIC	1.00	2.00	4.00	N/A	2.00	14.00	10.00	9.00
LIL.	18.00	23.00	18.00	13.00	12.00	20.00	20.00	19.00
-	Ľ,	Щ	Н	d	ď	G/F	F/P	F/P
Age	X	M	E/M	M	E/M	М	M	M
Salacies	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Silver Fir (Abies alba)	Oak (Quercus robur)
.01	175	176	177	178	179	180	181	182

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Cat	ខ	8	R	3	R	R	R	C3
Yrs.	M	s	N/A	M	N/A	N/A	N/A	M
PMIR	Cut Ivy and clean out monitor with regard to continued decline and suitability for retention	Cut Ivy and monitor on regular basis with regard to suitability for retention.	Remove.	Cut Ivy and monitor with regard to future deterioration and suitability for retention.	Remove	Remove	Remove.	Cut Ivy and monitor regularly regarding suitability for retention.
Structural Condition	A large specimen supporting notable deadwood and of apparently reduced vigour.	A multi stemmed and suckering group arising in coppice fashion. Appears to arise as sucker regeneration from a previous stump and may be subject to basal decay. This vigorous at this time though is developing a substantial Ivy cover.	Exists as a dead stump and is considered likely to collapse the near future.	Heavily Ivy clad and has apparently sustained notable Crown apex failure presumably as a result of storm damage. Remaining crown appears vigorous.	In a state of likely collapse.	Exists as a decapitated stump.	Notably distorted and unbalanced to north west. Lower stem region supports Major canker related cavity and associated decay. Is considered to be highly subject to wind blow and must be considered for removal.	Chronically suppressed and unbalanced to north as result of woodland suppression. Of questionable long-term value.
KIYA	12.61	0.00	0.00	5.42	3.09	0.00	5.39	4.32
DIA.	1.05	0.00	0.00	0.45	0.26	0.00	0.45	0.36
Stems	-	ς.	1		1	H	П	Ч
1	5.00 5.00 5.00	6.00 5.00 5.00	0.50 0.50 0.50 0.50	4.00 3.00 3.00 3.00	2.00 2.00 2.00 2.00	0.50 0.50 0.50 0.50	5.00 4.00 1.00 2.00	7.00 2.00 0.00 3.00
	Z ⊟ N ≥	Х H N X	ZENS	X E S X	Z ⊞ N ≯	Z H N ≯	Z Ш N X	X E S X
C-HL.	10.00	2.00	N/A	2.00	N/A	N/A	7.00	2.00
HIC.	24.00	16.00	00.6	16.00	13.00	7.00	15.00	13.00
	FIP	FIP	d.	Ц	Р	d	<u>م</u>	F/P
Age	M	E/M	E/M	E/M	E/M	E/M	E/M	E/M
Species	Silver Fir (Abies alba)	Horse Chestnut (Aesculus hippocastanum)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Silver Fir (Abies alba)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)
No.	183	184	185	186	187	188	189	190

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No.	191	192	193	194	195	196	197	198
Species	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	. Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)
Age	E/M	E/M	E/M	E/M	E/M	E/M	E/M	E/M
Con	Щ	<u>г</u> ,	ГГ.	Ľ,	щ	ĽL,	ц	ц
Ht.	15.00	18.00	17.00	18.00	19.00	15.00	17.00	18.00
C-Ht.	4.00	18.00 10.00	7.00	2.00	10.00	1.00	8.00	
	Z H S X	X E S X	× π Σ	≪ α μ Σ	Z H N ≷	Х H N X	Z ⊞ N ≱	A H N A
Spr	6.00 3.00 1.00 3.00	4.00 2.00 1.00 2.00	4.00 5.00 4.00 3.00	4.00 2.00 2.00	6.00 3.00 3.00 4.00	4.00 1.00 2.00 3.00	6.00 2.00 2.00	6.00 2.00 0.00 3.00
Stems		1	5	1	1	1	T.	1
Dia.	0.34	0.28	0.53	0.47	0.43	0.54	0.27	0.28
RPA	4.09	3.40	5.35	5.62	5.16	6.53	3.21	3.32
Structural Condition		Notably drawn up with limited high crown. It is to support potential cavity damage at 9.00 m on southern side of stem raising concerns regarding stability of remaining crown.	Twin stemmed from 1.50 m raising concerns regarding integrity of compression fork. Of good general vigour and supporting limited Ivy-cover.	Of drawn up form having sustained notable storm damage particularly on northern side of crown apex. Is maintaining good vigour.	Generally drawn up form with notable imbalance to north. Of good general vigour and minimal Ivy cover.	A drawn up and whip like specimen substantially suppressed and arising from edge of woodland margin. Apparently maintaining fair vigour.	Drawn up and whip like, arising as part of woodland margin. Apparently vigorous but Ivy clad.	Ivy clad and unbalanced to north as a result of woodland suppression. Apparently maintaining fair vigour.
PMR	Cut Ivy monitor.	Cut Ivy and Inspector cavity extent.	Cut Ivy and monitor	Cut Ivy and clean out. Monitor.	Clean out and monitor.	Cut Ivy monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.
Yrs	W	S	W	M	L	M	X	W
Ca	3	3	3	2	B2	C3	3	3

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Yrs Cat	1	L B2	L B2	S C3	L B2	L B2	M C3	L B2	S C3
Y			I I			T	2		0
PMIR	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Clean out and cut Ivy. Monitor.	Monitor with regard to suitability for retention.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.
Structural Condition	Young and vigorous, arising as part of the woodland margin. Suppressed and unbalanced to north.	Notably one-sided and unbalanced to north as result of woodland suppression. Lower stem heavily lvy clad preventing detailed inspection though vigour appears fair notwithstanding support of deadwood.	Has sustained past storm damage and supports notable deadwood. Crown vigour appears fair with lower stem Ivy clad.	Distorted and multi stemmed, notably unbalanced to north west. Of questionable retention merit.	Suppressed but well balanced and of good vigour.	Ivy clad and a drawn up and whip.	Slightly unbalanced to east but maintaining fair vigour.	Slightly suppressed but of good vigour.	Suppressed distorted and affected by collapse of adjoining tree. Of questionable retention merit.
RPA	3.21	10.85	8.98	2.16	3.13	2.22	2.71	2.75	2.02
Dia.	0.27	0.00	0.75	0.22	0.26	0.18	0.23	0.23	0.17
Stems	Г	1	-	ω	Ť.	-	1		1
Spr	4.00 3.00 2.00 3.00	7.00 5.00 3.00 3.00	6.00 7.00 9.00 7.00	6.00 0.00 1.00 4.00	3.00 3.00 3.00 3.00	2.00 2.00 2.00	1.00 3.00 2.00 1.00	2.00 2.00 2.00	3.00 1.00 0.00 2.00
1	ХШSX	め S E Z	太 E N X	X H N X	Z E N ≥	ХШХ≯	X H N ≥	Z ⊟ N ≷	× Ξ × ≫
C-E1.	1.00	2.00	8.00	4.00	3.00	4.00	3.00	3.00	4.00
HIT.	17.00	00.61	19.00	10.00	15.00	12.00	15.00	14.00	11.00
Con	ц	Ľ.	Ц	Ъ	Ч	ц	ί ι ,	ц	Ч
Age	E/M	W	M	S/M	E/M	S/M	S/M	S/M	S/M
opecies	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Oak (Quercus robur)	Ash (Fraxinus excelsior)	Sycamore	Ash (Fraxinus excelsior)	Larch (Larix decidua)	Larch (Larix decidua)	Ash (Fraxinus excelsior)
No.	199	200	201	202	203	204			207

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No.	208	209	210	211	212	213	214	215	216
Species	Larch (Larix decidua)	Ash (Fraxinus excelsior)	Larch (Larix decidua)	Larch (Larix decidua)	Larch (Larix decidua)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)
Age	S/M	E/M	E/M	E/M	Z	S/M	E/M	W	W
Con	4	Р	ц	ц	G/F	Ц	Ľ,	Ľ,	ц
LIL.	16.00	17.00	16.00	17.00	18.00	14.00	16.00	18.00	18.00
C-Ht.	14.00	6.00	14.00	13.00	3.00	3.00	5.00	7.00	7.00
		ХШS≯	Z H ∾ ≫	ZШS≫	Z E N ≥	Z ⊞ ∾ ≽	Z Ш N X	Z ⊞ ∾ ≽	X H S X
	0.50 0.50 0.50 0.50	3.00 2.00 4.00 5.00	2.00 2.00 2.00	2.00 2.00 2.00	6.00 6.00 6.00 6.00	2.00 2.00 3.00	4.00 1.00 2.00 4.00	4.00 3.00 4.00 7.00	5.00 2.00 5.00 4.00
Stems	1		1	1	T	Ţ	1		1
Dia.	0.25	0.30	0.31	0.32	0.64	0.21	0.28	0.86	0.58
RPA	2.94	3.63	3.74	3.86	7.64	2.48	3.36	10.28	6.95
Structural Condition	Particularly drawn up with limited high crown. Of questionable stability.	Substantial decay noted on eastern side of base. Potentially unstable and considered ill suitable for retention. Consider early removal.	Supports minor imbalance to east but is maintaining good vigour.	Of generally good form and vigour.	Of Generally good form and vigour with limited Ivy-cover.	Of drawn up form with limited high canopy. Of good general vigour.	Notably unbalanced to north west as a result of suppression. Middle crown area supports extensive ivy cover.	Heavily divided at 1.500 m. Middle crown region is heavily Ivy clad preventing detailed inspection. Anomalous limb development to west creates imbalance in that direction. Appears to be of good general vigour.	Of distorted crown form as result of suppression. Principal stem and middle crown is heavily Ivy clad preventing detailed inspection.
PMR		f Consider early removal.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and clean out. Monitor.	Cut Ivy and clean out, re-evaluate subsequent to Ivy shedding.
Vrs	S	N/A	L	Ţ	L	Ļ	M	Ц	בן
Cat	30	R	B2	B2	A2	B2	3	B2	B2

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Cat	C3	B2	B2	B2	B2	B2	R	R
Yrs	S	Г	L	L	Г	M	N/A	N/A
PMIR	Cut Ivy and re-evaluate with regard to suitability for retention.	Clean out and cut Ivy. Monitor.	Monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding. Clean out to remove existing deadwood.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Remove.	Remove immediately.
Suructural Condition	Particularly drawn up with limited remaining crown. Heavily Ivy clad and unbalanced. Consider to be of minimal retention merit.	Notably suppressed unbalanced to north east as result of proximity to near neighbours. Supports substantial Ivy cover reducing ability to visually inspect. General vigour appears good with minimal deadwood carriage.	2Maintaining good vigour notwithstanding suppression.	A substantial specimen, supporting extensive ivy-cover preventing detailed inspection. General vigour appears fair though deadwood is noted within crown structure.	A particularly large specimen of this species supporting a notable imbalance to the west. General vigour appears fair at this time.	Supports minor imbalance to west but appears vigorous. Is heavily Ivy clad.	Partially uprooted and lodged against stem of Beech two to two. Presents a tangible risk through continued collapse.	Completely dead and existing as a decaying stump. In a state of imminent collapse.
TA IN	4.62	5.23	2.56	8.67	4.16	8.98	8.67	6.23
1/10.	0.39	0.44	0.21	0.72	0.35	0.75	0.72	0.52
CITIN		1	1		-	T	1	-
T	0.00 2.00 0.00 0.00	5.00 5.00 2.00 1.00	2.50 2.50 2.50 2.50	6.00 5.00 5.00 7.00	4.00 5.00 3.00 2.00	3.00 5.00 5.00 5.00	0.75 0.75 0.75 0.75	0.50 0.50 0.50 0.50
1	Zш∾≯	Z ⊞ N ≱	Z ⊞ N ≱	X H S X	ХШS≯	X H N X		≪ ⊗ E N
	14.00	4.00	0.00	5.00	0.00	4.00	0.00	12.00
	18.00	17.00	00.0	19.00	16.00	22.00	18.00	19.00
	4	IL.	ц	Г Ц	G/F]	G/F 2	D	D
	W	E/M	W	W	W	W	W	W
	Larch (Larix decidua)	Sycamore (Acer pseudoplatanus)	Holly (Ilex aquifolium)	Beech (Fagus sylvatica)	Holly (llex aquifolium)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)
	217	218	219	220	221	222	223	224

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Cat	B2	B2	3	5	B2	R	3
Yrs	<u></u>	Ц	S	М	Ч	N/A	M
PMR	Cut Ivy and clean out. Monitor regularly.	Cut Ivy and clean out. Monitor regularly.	Cut Ivy and clean out monitor regularly with regard to suitability for retention.	Cut Ivy and monitor.	Cut Ivy and monitor.	Remove.	Clean out remove existing deadwood and monitor regularly with regard to continued deterioration and decline.
Structural Condition	Of distorted crown form as a result of proximity to near neighbours. General vigour appears good with limited deadwood noted within canopy. Principal stem and middle crown region is heavily Ivy clad preventing detailed inspection.	Suppressed and distorted as result of proximity to near neighbours. General vigour appears fair at this time though crown supports notable deadwood.	Particularly tall but supporting limited crown. Crown is noticed to support deadwood thou crown apex appears to remaining vigorous at this time. Lower stem and please suggest possibility of internal spitting and predisposition towards collapse.	Suppressed and drawn up, notably unbalanced to south west. Appear to be maintaining good vigour though supports notable Ivy cover.	Notably unbalanced to north as result of woodland suppression. Is maintaining good vigour though Ivy development is becoming notable.	Partially uprooted and unbalanced to east. Consider to be at risk of impromptu collapse.	A large specimen supporting a principal stem imbalance to north east. Crown vigour is variable with deadwood and Minor storm damage noted. Remaining lower crown canopy appears vigorous.
INL'A	9.05	8.02	8.75	5.39	5.27	8.21	7.87
Dia.	0.75	0.67	0.73	0.45	0.44	0.68	0.66
Stems		1	-	H-	I	1	H
1	7.00 9.00 8.00 8.00	2.00 6.00 4.00	2.00 3.00 3.00 3.00	1.00 1.00 5.00 6.00	5.00 4.00 5.00	4.00 5.00 0.00	7.00 7.00 5.00 5.00
and Support Descent of the second	Z H N ≥	Z H ≈ ≯	Z H N ≽	X H S X	X E S X	Z H N ≯	Z ш s X
C-HL.	10.00	5.00	16.00	10.00	12.00	12.00	4.00
- 1	24.00	19.00	27.00	17.00	19.00	18.00	21.00
a	н. Г.	Ľ.	щ	щ	щ	4	G/F
Age	M	M	W	E/M	E/M	M	W
es	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	(Larix decidua)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatamus)
NO.	225	226	227	228	229		231

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Cat	B2	B2	B2	R	B2	62	B2
Vrs.		1	Γ	N/A	L	S	Г
PMR	Cut Ivy and clean out re-evaluate subsequent to Ivy shedding.	Cut Ivy and clean out, remove adjoining partially collapsed tree. Re-evaluate subsequent to Ivy shedding.	Cut Ivy and clean out monitor.	Remove immediately.	Cut Ivy and clean out. Monitor.	Clean out and monitor.	Monitor.
Structural Condition	Supports minor overall imbalance to north west. Principal stem is heavily Ivy clad preventing detailed inspection. Crown vigour appears good though deadwood and Minor storm damage is noted.	Of apparently good vigour but supporting notable Ivy cover. It is affected by partial collapse of neighbouring tree.	Notably one-sided and unbalanced to south but apparently maintaining good vigour. Supports notable Ivy cover preventing detailed inspection.	Exists as a partially collapsed stem lodged against the crown of Beech 233. Consider to be in a state of imminent collapse.	A large and well balanced specimen supporting a limited higher crown. Prince will stem is heavily lvy clad. General vigour appears good though deadwood is noted.	Substantially distorted as result of suppression with notably diverging crown stems considered likely to predispose tree to mechanical failure. General vigour appears fair though substantial deadwood is noted.	Slightly distorted and unbalanced to north. Appears to be maintaining good vigour with no Ivy cover and limited deadwood carriage.
KFA	8.82	11.96	11.19	5.04	11.92	10.81	7.33
Dia.	0.74	1.00	0.93	0.42	0.99	06.0	0.61
Stems	П	1	1	-	1	П	1
1	7.00 6.00 5.00	6.00 9.00 9.00 4.00	2.00 7.00 8.00 7.00	2.00 7.00 2.00 0.00	8.00 5.00 6.00 6.00	8.00 5.00 9.00 6.00	8.00 5.00 5.00 5.00
	Z EI S ≯	X H N X	X H S X	M S E Z	Z H S ≩	Z H N ≷	≪ N E N
C-EIL.	5.00	12.00	00.6	0.00	16.00	19.00	7.00
LIL.	23.00	22.00 12.00	22.00	17.00	26.00 16.00	19.00	19.00
-	ц	Ľ.,	G/F	D	G/F	1 L	ц
Age	X	M	M	M	M	M	M
opecies	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Elm (Ulmus glabra)	Beech (Fagus sylvatica)	Sweet Chestnut (Castanea sativa)	Beech (Fagus sylvatica)
100.	232	233	234	235	236	237	238

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140.	239	240	241	242	243	244	245	246
Î	Larch (Larix decidua)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Larch (Larix decidua)	Larch (Larix decidua)	Larch (Larix decidua)	Sweet Chestnut (Castanea sativa)	Larch (Larix decidua)
Age	¥	S/M	S/M	E/M	E/M	E/M	E/M	E/M
Con	μ.	Щ	ц	Ч	Ц	щ	F/P	ĽĽ,
Ht.	00.01	15.00	18.00	16.00	18.00	19.00	18.00	18.00
C-Ht.	16.00	6.00	9.00	15.00	14.00	16.00	9.00	12.00
	Z H N ≯	Z H N ≥	Z El ∾ ≥	X H N ≥	Z E ∾ ≯	Z ⊞ N ≷	X H N ≱	A H N A
Spr	3.00 3.00 3.00 3.00	4.00 0.00 2.00 4.00	5.00 3.00 2.00 5.00	0.20 0.20 0.20 0.20	2.00 2.00 2.00	2.00 2.00 2.00	4.00 4.00 3.00	2.00 3.00 1.00
Stems	1	1	1	1	1	1	1	1
Dia.	0.39	0.23	0.52	0.26	0.31	0.34	0.87	0.26
RPA	4.70	2.71	6.26	3.13	3.67	4.09	10.43	3.17
Structural Condition		Drawn up and whip like, notably unbalanced to west.	Notably unbalanced to north-west and twin stemmed from near ground level. Is maintaining good vigour though western stems support notable Ivy cover.	Heavily Ivy clad and contagious canopy cover prevents inspection. Appears to be decapitated.	Supports minor imbalance to south as result of suppression.	Slender and drawn up, supporting limited high crown only.	Apparently arising sucker redevelopment from a previous stump with substantial decay noted on north-eastern side of stump base. Overall tree and unbalanced to south raises concerns with regard to long-term stability notwithstanding good vigour at this time.	Drawn up with imbalance to east and supporting limited high crown only.
PMR	Cut Ivy and clean out.	Cut Ivy and monitor.	Cut Ivy and monitor.	Remove.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out, monitor regularly with regard to suitability for retention.	Cut Ivy and remove deadwood.
Yrs	р Г	M	M	N/A	M	M	S	M
S.	B2	5	3	R	8	8	62	3

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Yrs Cat	M	.Summare (At	ean out. Monitor. L B2	a out. Monitor. L M	a out. Monitor. L M	i. Monitor. L M M	. Monitor. L M M M M	L N/A Monitor.	y aucounty. n out, Monitor. L M M M M M M M M M M M M M	y arcounts.
	nt to Ivy shedding.								itor.	itor.
Cut Ivy and re-evaluate subsequent to Ivy shedding.		Cut Ivy and clean out. Monitor.		Cut Ivy monitor.	Cut Ivy monitor. Cut Ivy monitor.	Cut Ivy monitor. Cut Ivy monitor. Cut Ivy and monitor.	t Ivy monitor. t Ivy monitor. t Ivy and monitor. move.	Cut Ivy monitor. Cut Ivy and monitor. Cut Ivy and monitor. Remove. Cut Ivy and monitor.	Cut Ivy monitor. Cut Ivy and monitor. Cut Ivy and monitor. Remove. Cut Ivy and monitor. Cut Ivy monitor.	Cut Ivy monitor. Cut Ivy and monitor. Cut Ivy and monitor. Remove. Cut Ivy and monitor. Cut Ivy and monitor. Cut Ivy and monitor.
										oport d d
		heavily Ivy clad stem. General vigour appears fair.	Twin stemmed from near ground level and maintaining good vigour.		Of good general form and vigour, support the only minimal lvy cover.					
29 3.48 35 4.16 52 5.16				46 5.50	and the second s	26 3.09				
1 0.29 1 0.35 2 0.52				1 0.46		1 0.26				
		· · · · · · · · · · · · · · · · · · ·	3.00 3.00 3.00 3.00 3.00	and a second second second	5.00					
хшхухш	ZШ		ХĦХ¥	ZШ	s y	A S E Z A S	$\langle v \pi Z \langle v \pi Z \langle v \rangle \rangle$	××××××××××××××××××××××××××××××××××××××	ある H Z M A A H Z M A H Z M A H Z M A A H Z M A A H A A H A H A H A H A H A H A H A	× × × × × × × × × × × × × × × × × × ×
20.00 16.00	16.00		7.00	19.00 15.00		0 15.00				
20.00	20.00		15.00	19.00		18.00	18.00	18.00	18.00 18.00 20.00 14.00	18.00 18.00 14.00 18.00
4		Щ	μ,	U		ц	Ŀ Q	G/F D F	F G(F	F G(F D
E/M		E/M	S/M	E/M		E/M	E/M E/M	E/M E/M	E/M E/M S/M	E/M E/M S/M
I ariv davidual	Trais acciant	Larch (Larix decidua)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus	excelsior)	excelsior) Larch (Larix decidua)	excelsior) Larch (Larix decidua) Larch (Larix decidua)	Larch Larch (Larix decidua) Larch (Larix decidua) Larch (Larix decidua)	Larch Larch (Larix decidua) Larch (Larix decidua) Larch (Larix decidua) (Larix decidua) Sweet Chestnut (Castanea sativa)	Larch Larch (Larix decidua) Larch (Larix decidua) (Larix decidua) Sweet Chestnut (Castanea sativa) Sweet Chestnut (Castanea sativa)
		1		250						

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I Ht.	F 18.00 9.00	F 18.00 16.00	F 18.00 15.00	G/F 22.00 7.00	F 17.00 4.00	F 19.00 16.00	G/F 21.00 5.00	F 20.00 11.00	F 26.00 10.00	G/F 18.00 7.00
	N 4.00 E 3.00 S 0.00 W 3.00	N 2.00 E 2.00 S 2.00 W 2.00	N 2.00 E 4.00 S 1.00 W 0.00		N 2.00 E 4.00 S 8.00 W 4.00	N 2.00 E 2.00 S 2.00 W 2.00	N 7.00 E 6.00 S 6.00 W 5.00	N 5.00 E 1.00 S 2.00 W 7.00	N 2.00 E 6.00 S 3.00 W 2.00	N 2.00 E 3.00 S 4.00 W 3.00
Stems	п	E	-	I	1	-	-	1	1	1
Dia.	0.28	0.25	0.25	0.69	0.67	0.28	0.77	0.50	0.74	0.43
RPA	3.40	3.02	3.02	8.29	8.02	3.40	9.24	6.04	8.82	5.19
Structural Condition	Distorted and drawn up with limited high crown.	Heavily Ivy clad without crown apex appears to be maintaining good vigour.	Drawn up with limited high crown, notably unbalanced to north east.	Supports minor imbalance to west with notable Ivy cover on principal stem don't maintaining good vigour.	Notably unbalanced to south and Twin stemmed from 1.00 m. It is maintaining good vigour with Easton stem supporting notable Ivy cover.	Supports notable Ivy, and limited high crown.	Of good general form and vigour with limited Ivy cover.	Distorted and notably unbalanced to west. Principal stem supports notable Ivy cover.	Drawn up with limited high crown. Supports extensive and heavy deadwood along principal stem.	Drawn up but vigorous form.
PMR	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and re-evaluate.	Clean out remove larger deadwood and cut Ivy. Monitor.	Clean out and cut Ivy. Monitor.	Cut Ivy monitor.	Cut lvy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.
Vrc	T	W	M	Г	<u>Г</u>	L	L	L	W	W
Cat	B2 B2	3	3	B2	B2	B2	A2	B2	3	ß

- 09 -

No.	267	268	269	270	271	272	273	274	275
Species	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Horse Chestnut (Aesculus hippocastanum)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)
Age	M	×	E/M	M	Z	E/M	E/M	M	M
Con	Ľ,	μ,	[I]	G/F	d	ί τ ,	Ľ,	G/F	ц
Ht.	18.00	23.00	18.00		20.00	20.00	18.00		20.00
	8.00	5.00) 5.00	24.00 13.00	0 12.00	20.00 15.00	00.6 0	22.00 15.00	0 12.00
ţ	Z El N ≷	Z ⊞ N ₿	X H N X	Z H S B	N H N N	Z ⊞ N ≱	N H N N	N H S A	N E N
Spr	2.00 4.00 3.00	4.00 5.00 8.00 5.00	5.00 6.00 3.00	6.00 6.00 6.00 6.00	6.00 5.00 5.00	4.00 2.00 1.00 4.00	4.00 4.00 5.00	2.00 1.00 5.00 7.00	6.00 4.00 5.00
Stems	-	-		-	1	Г	5	1	1
Dia.	0.48	0.79	0.54	06.0	0.74	0.35	0.53	0.52	0.55
RPA	5.77	9.47	6.53	10.85	8.82	4.16	5.32	6.23	6.65
Structural Condition	Drawn up form with minor imbalance to south. Heavily forked at 5.00 m.	Of distorted overall form but apparently vigorous. Middle crown region is heavily Ivy clad preventing detailed inspection.	Notably unbalanced to north east. Supports minimal Ivy cover on lower stem. Upper crown support notable rubbing branches with associated wound.	Of good general form and balance. Appears to be vigorous at this time.	Apparently in decline with substantial proportion of crown apex dying and of low vigour. Principal stems support notable Ivy cover. Consider to be of limited future longevity.	Particularly drawn up with limited high crown. Principal stem is heavily Ivy clad a tree appears to be of good vigour.	Divided from near ground level but maintaining good vigour.	Supports notable imbalance to west but appears to be maintaining good vigour.	Heavily Ivy clad preventing detailed inspection. Canopy vigour appears to be below that expected for tree of this age.
PMR	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Clean out and monitor.	Clean out remove deadwood including a large truncated stem at 10.00 m.	Cut Ivy and clean out. Monitor with regard to suitability for retention.	Cut Ivy and monitor.	Cut lvy and monitor.	Cut Ivy and monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding. Monitor.
Yrs	Ч	Г	Ъ	F	S	Ţ	1	L	L
Cat	B2	B2	B2	B2	5	B2	B2	B2	B2

- 61 -

Cat	B2	B2	B2	B2	3	B2	3	B2	3
Yrs	L	L	L	L	M	Ч	S	L	M
PMIR	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Clean out and cut Ivy. Monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out for Limited future retention.	Requires no action at this time but should be monitored.	Clean out remove large deadwood monitor on regular basis with regard to potential deterioration.
Structural Condition	Supports minor imbalance to west. Becomes multi stemmed at 6.00 m.	Young and vigorous but small stature is leading to suppression.	Supports notable imbalance to east but is maintaining good vigour. Prince will stem is heavily Ivy clad.	Of good general form and vigour though supporting notable stem Ivy.	Drawn up and whip like, supporting notable stem Ivy. Is notably suppressed but maintaining good vigour.	Of good general for and vigour though supporting notable imbalance to west. Supports notable Ivy cover.	Has sustained dramatic failure of secondary them at 8.00 m resulting in support of decaying stump. Ongoing decay is considered likely to undermine integrity of remaining crown leader.	Heavily suppressed and distorted, unbalanced to west.	Principal stem support notable imbalance to east. Crown vigour is variable and exhibit signs of impromptu localised storm damage and deadwood development.
IKP'A	5.50	2.44	5.31	9.43	2.75	4.74	7.45	3.32	12.26
Dia.	0.46	0.20	0.44	0.79	0.23	0.39	0.62	0.28	1.02
Stems		-		F	I	L	L.	1	
1	5.00 2.00 6.00	3.00 3.00 3.00 3.00	3.00 6.00 5.00 1.00	7.00 6.00 5.00 6.00	1.00 2.00 3.00 4.00	4.00 2.00 3.00 5.00	4.00 2.00 5.00 7.00	2.00 3.00 5.00	7.00 10.00 9.00
	N H N N	X E N ≯	Z H N ≯	Z H N ≯	X H S A	Z H N ≯	X H N X	Z H N X	X H N X
C-HI.	6.00	4.00	10.00	10.00	6.00	14.00	10.00	4.00	7.00
- 4		13.00	19.00 10.00	23.00 10.00	15.00	18.00	19.00 10.00	13.00	21.00
-		ц	Ц	Ľ,	۲.,	G/F	F/P	ц	ц
Age	E/M	S/M	E/M	M	E/M	E/M	W	S/M	М
opecies	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)
.00		277			280	281	282	1	284

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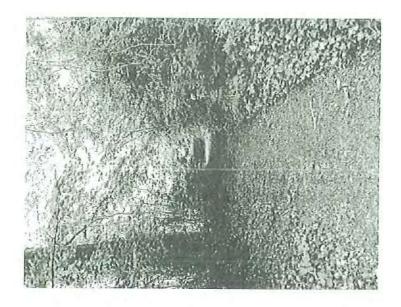
0.44	B2	3	B2	B2	B2	3	B2	3	B2
Vrc	L	M	r	L	L	Μ	L	M	Ц
PMR	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Clean out and cut Ivy. Monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.	Cut Ivy and monitor.	Cut Ivy and clean out. Monitor.
Structural Condition	Suppressed and drawn up. Principal stem supports notable Ivy cover. General vigour appears fair.	Squat and suppressed, supporting notable Ivy cover.	Has developed drawn up in stature as result of suppression. Principal stem is Ivy clad preventing detailed inspection though vigour appears good.	Supports minor imbalance to west. Crown vigour is variable with minor deadwood noted.	Particularly drawn up with limited high crown supported upon heavily Ivy clad stem. Deadwood is noted within crown.	Substantially drawn up as a result of suppression. Supports notable imbalance to west but is maintaining good vigour.	Suppressed and heavily Ivy clad but maintaining good vigour.	Suppressed and distorted as result of proximity to near neighbours. Is maintaining good vigour at this time.	Apparently vigorous though supporting extensive Ivy cover on principal stem. Deadwood carriage is minimal.
RPA	10.12	2.71	5.54	6.57	4.97	4.62	4.62	3.93	9.21
Dia.	0.84	0.23	0.46	0.55	0.41	0.39	0.39	0.33	0.77
Stems	1	1		1	1	1	1	1	1
Spr		3.00 3.00 3.00	4.00 3.00 5.00 5.00	6.00 3.00 4.00 8.00	3.00 1.00 2.00 5.00	6.00 3.00 0.00 2.00	2.00 3.00 4.00	5.00 3.00 2.00 4.00	4.00 6.00 7.00 6.00
	Z H N ≯	ZШN≯	Z E N ≯	Z ⊟ N §	Хш∾≯	Z H N X	Z E S S	ZESB	Z ⊞ N ≷
C-Ht.	7.00	3.00	00.6	5.00	12.00	14.00	14.00	5.00	00.00
Ht.	23.00	10.00	20.00	19.00	19.00 12.00	18.00	14.00 14.00	14.00	22.00 10.00
Con	ц	ír,	(T.,	щ	щ	Г	L.	Ц	G/F
Age	M	S/M	E/M	Μ	E/M	E/M	E/M	E/M	M
Species	Beech (Fagus sylvatica)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Ash (Fraxinus excelsior)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)
No.	285	286	287	288	289	290	291	292	293

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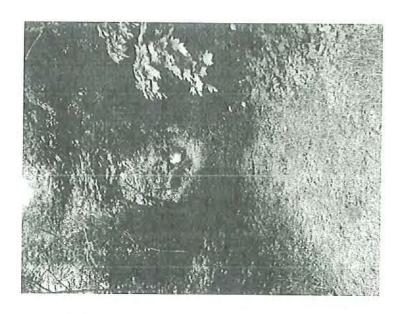
Cat	B2	B2	R	B2	3	8	B2
Yrs	Г	۲ [N/A	r	S	S	L
PMR	Cut Ivy and clean out. Monitor.	Cut Ivy and clean out. Monitor.	Remove.	Cut Ivy and clean out. Monitor.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and re-evaluate subsequent to Ivy shedding.	Cut Ivy and monitor.
Structural Condition	Supports minor imbalance to north east but is maintaining good vigour. Prince will stem is Ivy clad the canopy supports minimal deadwood.	Suppressed and distorted, affected by collapse of minor adjoining stem to north west. Heavily Ivy clad preventing detailed inspection though vigour appears good at this time.	Decapitated with entire crown apex dead. Unsuitable for retention.	Substantially unbalanced to north west but maintaining fair vigour. Principal stem is heavily Ivy clad preventing detailed inspection. Note is made of storm damage and deadwood carriage.	Notably unbalanced with crown and normally suggesting high likelihood of prior partial collapse. Principal stem is heavily Ivy clad preventing detailed inspection though mechanical damage and potential decay is considered likely.	Supports minor imbalance to south with evidence of dieback and deadwood development throughout crown apex suggesting onset of decline. Principal stem is heavily Ivy clad preventing detailed inspection.	Drawn up with limited high crown formation. Principal stem is heavily Ivy clad but tree appears to be vigorous at this time.
KFA	8.56	3.59	3.13	10.43	8.25	9.05	3.48
Dia.	0.71	0.30	0.26	0.87	0.69	0.75	0.29
Stems	1		П		1	-	1
Spr	7.00 5.00 4.00 4.00	4.00 3.00 5.00 4.00	2.00 2.00 2.00 2.00	2.00 6.00 8.00 8.00	2.00 8.00 5.00	2.00 6.00 5.00	5.00 3.00 1.00 3.00
	≪ s E N	Z ⊞ S ≱	Z≡s≽	Z E S >	M E N M E N	× α α Σ	X ⊞ N ≱
C-Ht.	10.00	3.00	0.00	11.00	7.00	7.00	14.00
Ht.	21.00	16.00	8.00	22.00	17.00	21.00	18.00 14.00
Con		F	D	F	ц	F/P	17
Age		E/M	M	M	M	M	E/M
Species	Beech (Fagus sylvatica)	Beech (Fagus sylvatica)	Holly (Ilex aquifolium)	Ash (Fraxinus excelsior)	Sycamore (Acer pseudoplatanus)	Sycamore (Acer pseudoplatanus)	Ash (Fraxinus excelsior)
No.	294	295	296	297	298	299	300

1

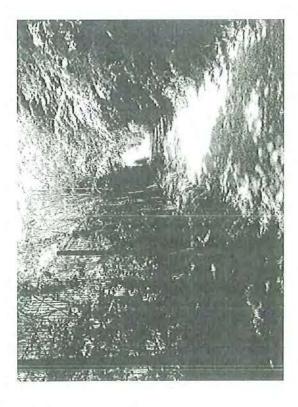
- 64 -



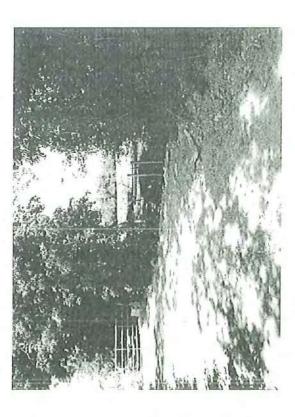
This image depicts the western most section of the southern track. Note is made of the overgrown nature of this area resulting from the development of scrub under story and its encroachment upon the track confines. This area does however support notable number of large trees located on either side of the tree and existing track.



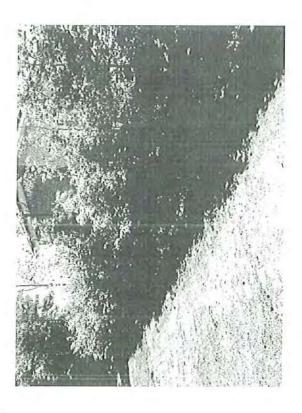
This image depicts the western track looking in a northerly direction. Attention is drawn to the fact that much of the material directly adjoining this track is of a scrubby and small stature and nature.



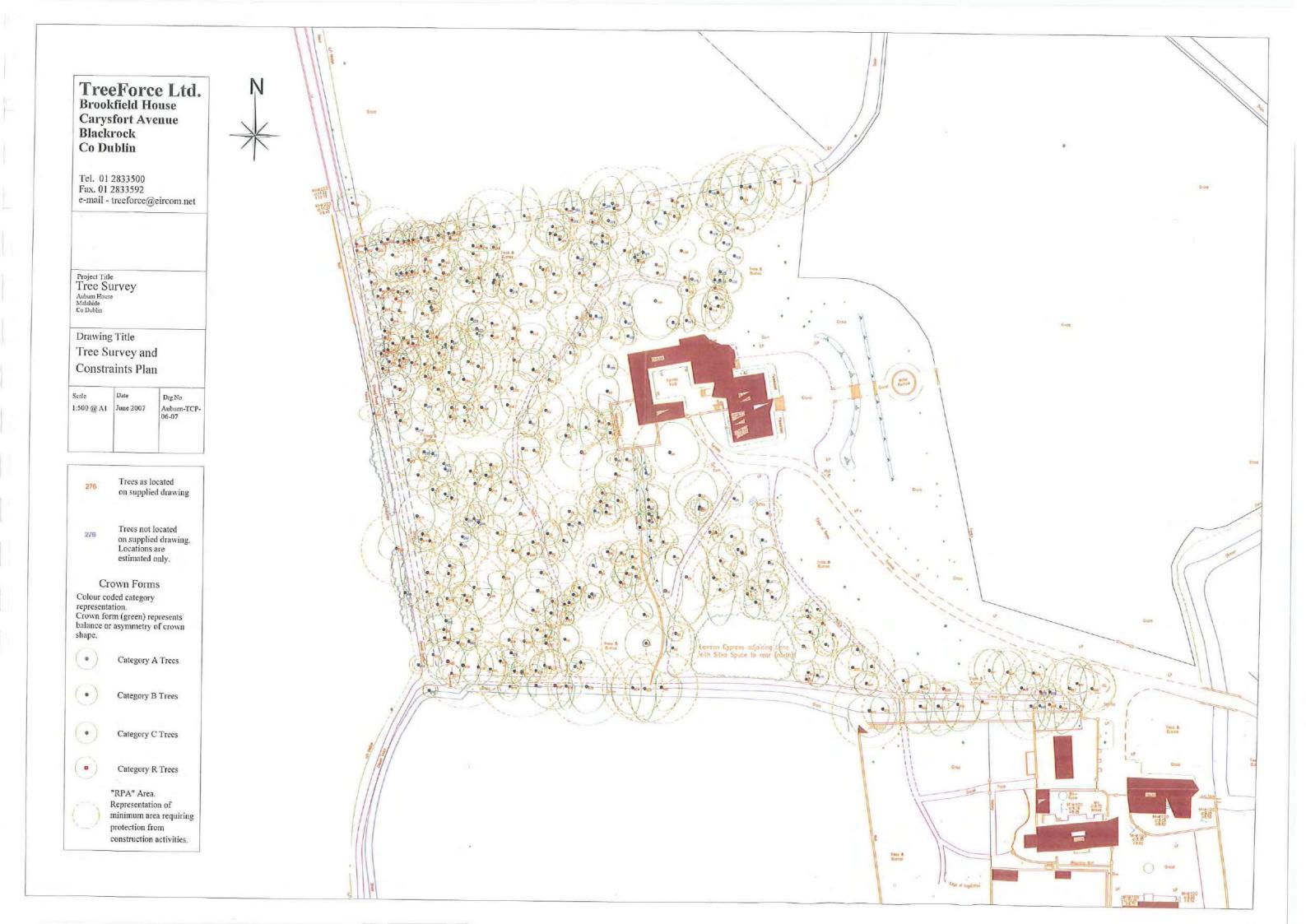
The northern end of this track appears to have been subsumed into the adjoining property and is currently divided from it by the existence of a one a panel fence. In position is to the north of the fence, there is a brick built a wall outside of which there has been developed a close-knit planting of Beech and Hawthorn.



Towards the northern extent of the track, note has been made of substantial environmental change and disturbance having taken place is appears to be commensurate with development works. Some trees in this area have been impacted by such disturbance and are considered unsuitable for retention.



This image depicts the recent development of new fencing and associated planting at the northern end of the western boundary. This material appears to be associated with the adjoining Abington development.



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Archaeological Impact Assessment

Proposed Development at Streamstown and Auburn Co. Dublin

AUTHOR: Garrett Sheehan Eimear O' Connor SUBMISSION DATE: Novemeber 2008

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- Plate 22 Area C field looking southeast Area C looking north
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1 Introduction

Archaeological Development Services (ADS) were to compile an archaeological desktop study of lands in Streamstown, Malahide, Co. Dublin to form part of a Local Area Plan submission to Fingal County Council. An archaeological desktop study, otherwise known as an archaeological impact assessment, identifies the potential impacts a proposed development may have on the archaeological resource, and contains a mitigation strategy to avoid, reduce or resolve those impacts. This report assesses the potential archaeological impact of any development taking place in the Streamstown area as part of the Local Area Plan for Fingal County Council.

2 Research Methodology

2.1 DESK BASED STUDY

2.1.1 Record of Monuments and Places

The Record of Monuments and Places (RMP) were established under the National Monuments Acts (1930-94). It is based upon the older non-statutory Sites and Monuments Record and information from county archaeological inventories. It records known upstanding archaeological monuments, the original location of destroyed monuments and the location of possible sites identified through, documentary, cartographic, photographic research and field inspections. The RMP consists of a numbered list, organised by county and subdivided by 6" map sheets showing the location of each site. The RMP data is compiled from the files of the Archaeological Survey, which combines cartographic sources and all published, and publicly available documentary sources including periodicals, the records of the National Museum of Ireland (NMI) and the aerial photographs of the Geological Survey of Ireland (GSI).

2.1.2 The Topographic Files of the National Museum of Ireland

The topographical files of the National Museum of Ireland (NMI) identify all recorded stray finds held in the NMI archive that have been acquired by the state in accordance with national monuments legislation. The files sometimes include correspondence and reports on excavations undertaken by NMI archaeologists in the early 20th century. The amount and the usefulness of the information on each stray find vary considerably. The finds are listed by county and townland and/or street name.

2.1.3 Excavations Bulletin

The Excavations Bulletin, published each year, and its online database contains summary accounts of all the excavations carried out in Ireland – North and South – from 1970 to 2004 (currently the latest edition). It has been compiled from the published Excavations Bulletins from those years, with a similar format. The number of excavations carried out annually in Ireland has increased enormously during this period. (To illustrate, Excavations 1970 has 41 reports, while Excavations 2000 contains over 1100.) The website database gives access to almost 6000 reports and can be browsed or searched over the internet using multiple fields, including Year, County, Site Type, Grid Reference, Licence No., Sites and Monuments Record No. and Author.

2.1.4 Cartographic Research

Two historic editions of the Ordnance Survey (OS) 6'' Maps, Co. Dublin, Sheet 12 (1843, 1908) were analysed. Comparisons were made between the historic maps and later 20^{th} century OS mapping.

2.1.5 Documentary Research

Various published sources, including local and national journals, were consulted to establish a historical background for the proposed development site.

2.1.6 Toponyms

Townland names are a valuable resource of information as they can indicate, for example, the type of topography or archaeological sites that have long since been forgotten. They can be a rich source of information for the land use, history, archaeology and folklore of an area. The placename can have a variety of language origins such as, Irish, Viking, Anglo-Norman and English.

2.2 SITE INSPECTION

The purpose of a site inspection is to assist in verifying the location, condition and extent of known features and to also identify areas of archaeological potential. By noting the setting and condition of any recorded monuments and structures a better understanding of the archaeological heritage of proposed development area can be achieved.

3 Desk based study

3.1 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

There is archaeological evidence for human activity in County Dublin from the Mesolithic period onwards. There is little evidence in the immediate vicinity of Streamstown and Auburn for Mesolithic activity, however, on Paddy's Hill, south of Malahide estuary; a number of microliths were recovered during excavations (Stout and Stout 1992, 7). Possible Bann flakes were also found near Feltrim Hill.

3.1.1 Neolithic Period

The most common upstanding monuments, dating to the Neolithic period, are megalithic tombs. These tombs are divided into four classes; court tombs, portal tombs, passage tombs and wedge tombs. The three latter classes are represented in County Dublin. A typical portal tomb, such as the one at Howth Demesne, consists of two large door stones or portals, a back stone and often side stones. A large capstone, often of enormous proportions, is placed on the stones, providing a small chamber. Passage tombs are by far the most numerous megalithic tombs in Ireland, with a passage tomb cemetery located in Bremore, near Balbriggan. Passage tombs get their name from the large orthostats, occasionally with decorated with megalithic art, used to construct a passage usually leading into a burial chamber. Some passage tombs may have multiple chambers and are generally covered by a cairn or mound. Wedge tombs are so named by the distinctive manner in which the roof slopes down towards the back of the tomb and are taller and wider at the entrance.

Excavations on Feltrim Hill revealed considerable evidence for Neolithic settlement evidence. Several diagnostic artefacts including pottery, stone and flint implements, axes and waste material were found but no structural remains were identified. Any structural remains may have been destroyed by later early medieval occupation of the hill (Waddell 2000, 38).

No megalithic structures are known of in the vicinity of the proposed development.

3.1.2 The Bronze Age

There is little evidence for activity in the area during the Bronze Age in the study area. Bronze Age activity is represented by a range of monuments including stone circles, standing stone, stone alignments, tumuli, cairns and barrows. Tumuli are mounds of earth often used to covered or contain burial deposits. Cairns are stone mounds used for the same purpose. Barrows are burial monuments dating to the Bronze Age and Iron Age. There are several different classes of barrows but in general they consist of a circular enclosing element of ditches and sometimes banks. The interior, where burials are usually found, may be flat or have a mound of varying height. Bronze Age burials are often found in flat cemeteries in stone cists or earth-cut pits. These cemeteries are generally not evidence above ground. A ringditch containing a central cremation pit was excavated in Drinan townland. The earthwork in Malahide Demesne (DU012-029) may also be a barrow.

Evidence for Bronze Age domestic sites can often only be uncovered through excavation, but are generally not evident above ground. The house sites of the Bronze Age are generally circular in plan and between 7–15m in diameter. A pit excavated in Broomfield indicates that there was activity in the area during the Bronze Age. The pit excavated at Drinan/Nevinstown East, although yet undated, may date to this period. One of the best indicators of Bronze Age settlement are *fulachta fiadh* which are comprised of mounds of heat shattered stones. It is understood that hot stones were placed in a trough of water, thus heating the water for a variety of possible purposes such as cooking or bathing. The nearest example of such a site occurs in Robswall (DU012-065).

No sites of Bronze Age date were noted during the field inspection of the site.

3.1.3 The Iron Age

The evidence for human activity during the Iron Age is not as forthcoming as in other periods and no sites from this period have been identified in the area.

3.1.4 Early Medieval Period

In the fifth century Christianity was introduced to Ireland and monastic sites began to be founded throughout Ireland. No early church sites are known of in the immediate vicinity of the proposed development. However, by the sixth century the monastery at Swords was founded. The presence of a holy well in the neighbouring townland of Feltrim (DU012-026) may be indicative of an early religious tradition in the area.

During the early medieval period a new type of settlement enclosure became common. Ringforts consist of a circular area enclosed by a bank and an external ditch, sometimes there can be up to three sets of such defences. When stone defences were used in such sites they are referred to as cashels. Some enclosure sites may represent less wellpreserved ringforts. Occasionally souterrains are associated with ringforts, but are also found in isolation. A souterrain is an underground chamber probably used as a place of refuge during attack or as a storage place in more peaceful times.

The cashel (DU012-02501) on Feltrim Hill was excavated in the late 1940s by Eogan and Hartnett and had extensive evidence for occupation from the early medieval period. Some of the artefacts are thought to have had evidence for a Viking influence (Stout and Stout 1992, 17). The Viking influence is not surprising as this area is located in Fingal or the 'Territory of the Foreigners' and was settled by the Hiberno-Norse in the tenth and eleventh century (Mitchell and Ryan 1997, 300). It is possible that the earthwork (DU012-029) in Malahide Demesne may represent a platform ringfort.

No sites of Early Medieval date were noted during the field inspection of the site.

3.1.5 Medieval Period and onwards

The archaeological and historical evidence for this area suggests a burgeoning of activity from the historic period onwards, especially in the medieval period. The lands and harbour of Malahide were granted by Henry II to Richard Talbot in 1185 (Bennett 1994, 129). A castle (DU012-030) was built just northeast of the proposed development site in Malahide Demesne. This castle has undergone a significant number of additions over the years but it contains the only surviving medieval great hall in Ireland. A church site (DU012-03101) was also established beside the castle and may predate it. Two sheela-na-gig figures (DU012-03102 and DU012-03103) and a mitred head (DU012:03104) have been incorporated into the walls of the church. A graveyard is associated with the church (DU012:03106) and inside the church a medieval altar tomb (DU012:03105) dedicated to Maud Plunkett can be found. A medieval church (DU015-00201) and graveyard (DU015:00202) can also be found in Kinsaley townland. Excavations of a mound (DU012-028) in Auburn townland and to the immediate west of the proposed development revealed that it was most likely a landscape feature in the Demesne of nearby Feltrim House. A tree ring excavated in Broomfield indicates that the landscape in this area has continued to be modified in more recent times.

In the hinterland of the proposed development there is also evidence for post-medieval activity. The Georgian Auburn House (DU-50-O-209453) was built at this time. A windmill (DU012-027) was also located just west of the proposed site on Feltrim Hill. Rocque's (1756) and Stoke's (1750) maps indicate the location of the windmill, as does Archer's list of mills for 1801 (Simms and Fagan 1992, 104). The windmill was demolished in 1973.

No sites of Medieval date were noted during the field inspection of the site.

3.1.6 Significant settlements in the area

The proposed development is located between the towns of Malahide and Swords, thus an understanding of the history and development of these towns may give an indication of the broader archaeological and historical landscape of the area.

3.1.7 Swords

There is some evidence for prehistoric activity in Swords; however, it was during the early medieval period that its origins as a settlement can be attributed. The monastery of Swords was founded in 512, by St. Columbkill, who appointed St. Finn Lobhair, or the Leper, as its first abbot and blessed a holy well (Ryan 2001, 244). The town of Swords derives its name from the Irish word sord, which means 'pure', originally applied to St Columba's well. The monastery and settlement continued to grow and expand and incorporated several places of worship, including chapels dedicated to St. Finan and St. Brigit. The monastery was burnt by Maelseachlainn in 994 and it was plundered and burnt several times by the Danes between 1012 and 1066. The only remaining feature of St. Columba's Church is the Round Tower which stands seventy five foot tall.

The castle was built in the 12th century with the appointment of the first Norman bishop of Dublin, John Comyn. In 1192 a patent was granted to Archbishop Comyn that authorised him to hold an annual fair in his manor of Swords for the eight days after the feast of St. Columbcille. In 1216 the manor of Swords was granted to Henry de Loundres on condition that he build and maintain a castle on his manor of Castlekevin near Glendalough, to be used in the defence of the Pale against attacks by the O'Byrnes and O'Tooles. The extent of the manor of Swords in 1326 noted that there were 122 burgesses (McNeill 1950, 177), and there were many references to burgesses in Archbishop Alen's register throughout the following century, certainly sufficient to show that the borough functioned continually into the sixteenth century (McNeill, 1950, 291). However, by 1324 documentary evidence indicates that the castle was in disrepair but by 1583 the Castle was re-occupied by Dutch Protestants under order of the Land Deputy, Sir Henry Sydney. References in the Carew manuscripts refer to the 'quite spoiled old castle', indicating the ruinous state of the Castle. The Dutch Protestants repaired parts of the Castle and "the late oven attached to the buildings west of the gateway may be part of their refurbishing" (Fanning 1975, 57).

The town was granted a new charter by Elizabeth I in 1578, which established it as a parliamentary borough. This was confirmed in 1603 upon the accession of James I, together with a weekly market on Monday. This document refers to the place as 'the Archbishop's manor at Swords.' A grant of two additional fairs was made to it in 1699. It continued to send representatives to parliament until the Act of Union.

3.1.8 Malahide

Prehistoric activity in the vicinity of Malahide town was revealed during excavations at Robswall on the southeast of the town where Neolithic and Bronze Age activity was identified. However it is in the early medieval and medieval period when extensive settlement began to develop in the area. By the 8th century Malahide had become a Viking stronghold (Bennett 1994, 129). Several earthworks and enclosure in the area may represent early medieval ringfort sites.

In 1185 the lands and harbour of Malahide were granted by Henry II to Richard Talbot who built the aforementioned castle in Malahide Demesne. The castle is a quadrangular building situated on limestone rock and has been modified and renovated several times over the years. It was probably at this time that Malahide Abbey was built in Malahide Demesne. Malahide was part of the parish of Swords from the end of the monastic system of organisation in the 12th century until 1941 when it became a parish in its own right. By 1630, the Abbey was stated to be in a ruinous condition and may have been closed since the Dissolution of the Monasteries by Henry VIII.

During the Cromwellian wars, the castle was besieged and taken by Cromwell, who took up residency there and during which time he passed sentence of outlawry upon Thomas, Lord Talbot, and gave the castle to a Miles Corbet, who maintained possession of the castle for

seven years. During the Restoration, and after the execution in 1660 of Miles Corbet for signing Charles I's death warrant, the Talbot family regained possession of the estates.

By the 16th century the town had continued to expand as a fishing port and privileges were granted to the port of Dublin. The town also had a small oyster fishing trade and an interesting oyster midden has recently been excavated in Malahide Demesne (06E0661).

3.2 RECORDS OF MONUMENTS AND PLACES (RMP)

In the hinterland of the proposed development there are a range of recorded monuments many of which date to the early medieval and medieval periods (table 1). The earliest datable site was the Neolithic habitation activity on Feltrim Hill. Early medieval activity in the area is represented by a cashel site and an earthwork site which may represent a ringfort or even possibly a ringditch, which usually date from the Bronze Age. The presence of a holy well in the vicinity of the cashel could possibly have had its origins in the prehistoric period. In Malahide Demesne a medieval castle is situated in proximity to a church with two sheela na gig figures and a mitred head incorporated into it. A medieval altar tomb is located in the interior of the church while there is a graveyard surrounding the exterior. In the townland of Kinsaley there is a second medieval church and associated graveyard. A windmill site and mound/landscape feature represent post medieval activity in the area.

RMP NO.	TOWNLAND	CLASSIFICATION	NOTES
DU012-02501	Feltrim	Cashel Site	Early medieval cashel (35m by 25m dia), excavated in 1940's and produced evidence for earlier Neolithic occupation
DU012-02502	Feltrim	Habitation Site	Early medieval cashel (35m by 25m dia), excavated in 1940's and produced evidence for earlier Neolithic occupation
DU012-026	Feltrim	Holy Well	Known as 'Lady Well' and located on the north face of Feltrim Hill, now destroyed
DU012-027	Feltrim	Windmill Site	Located on the summit of Feltrim Hill, all demolished except for the base.
DU012-028	Auburn	Mound	Mound known as the 'fairy dell', excavated and thought to be a landscape feature
DU012-029	Malahide Demesne	Earthwork Site	Earthen platform enclosed by ditch, bank and outer ditch. The centre has been quarried
DU012-030	Malahide Demesne	Castle/Cast	Medieval castle built by Richard Talbot. It contains the only surviving medieval great halls and has been modified over the years.
DU012-031	Malahide Demesne	Ecclesiastical Remains	Redundant Record
DU012-03101	Malahide Demesne	Church	The remains of a medieval church in the ground of Malahide castle. The nave and chancel survive but are in a ruinous state
DU012-03102	Malahide Demesne	Sheela na Gig	Sheela na Gig built into a quoin at the northeast corner of the church
DU012-03103	Malahide Demesne	Sheela na Gig	Sheela na Gig built into the east gable wall of the church
DU012:03104	Malahide Demesne	Architectural fragment	Mitred head on the apex of the south door of the church
DU012:03105	Malahide Demesne	Tomb	Altar tomb dedicated to Maud Plunkett located in the interior of the church

DU012:03106	Malahide Demesne	Graveyard	Graveyard associated with the medieval church in Malahide Demesne
DU015-00201	Kinsaley	Church	Roadside church probably of medieval date. In a ruinous state
DU015:00202	Kinsaley	Graveyard	Rectangular walled graveyard associated with the medieval church

3.3 PREVIOUS EXCAVATIONS

While no archaeological excavations have taken place in Streamstown previously a number of archaeological investigations have been carried out in the vicinity of the proposed development site, as revealed by the Excavations Bulletin (Table 2). Two sites have evidence for Bronze Age activity. The pit at Drinan/Nevinstown may also date to this period and is indicative of the possibility that further archaeological activity may be found in the area. The watching brief at Malahide castle has revealed information about the construction and use of the castle. The landscape feature and tree ring also indicate that the landscape in this area has continued to be modified in more recent times. The aforementioned excavations on Feltrim Hill are not included in the database.

LICENCE	LOCATION	ТҮРЕ	NOTES
NO.			
Not available	Auburn	Landscape feature	Mound known as the 'fairy dell', excavated and thought to be a landscape feature
03E1362 ext.	Drinan/Nevinstown East	Pit	Subrectangular pit (3m long, 1m wide) with nine stakeholes at the bottom. Its function and date are unclear.
04E1066	Mountgorry Site B, Malahide Road, Drinan	Ringditch	Circular ringditch with entrance to the southeast. At the centre was a single pit containing cremated bones. Bronze Age pottery sherds were recovered from the ditch and pit
04E1528	Malahide Castle, Malahide Demesne	Post-medieval garden	A watching brief on engineering pits of the gardens in Malahide castle near the Barbican Tower
Not Available	Broomfield	Circular Ditched Enclosure	Excavation of a circular enclosure and a number of pits. Thought to have been a ploughed out tree ring which was erected in an area of Early Bronze Age activity

Table 2: Previous excavations in the vicinity

3.4 TOPOGRAPHIC FILES OF THE NATIONAL MUSEUM OF IRELAND

The Topographic files at the Irish Antiquities Department, National Museum of Ireland were inspected with regard to the following townlands in the vicinity of Streamstown, County Dublin; Streamstown, Feltrim, Abbeyville, Greenwood, Rahulh, Auburn, Drinan, Yellow Walls, Mabestown, Malahide Demesne, Kinsaley, Broomfield, Grange and Hazelbrook. A large number of lithic artefacts have been found in these areas indicating extensive prehistoric activity in the region. Several early medieval and medieval artefacts have also been found through this area.

NMI REGISTER NO.	TOWNLAND	FIND	NOTES
1966:42	Broomfield	Flint scraper	Surface find of flint scraper
1968:174-184	Broomfield	Flint artefacts	Neolithic flint cores, scrapers and flakes, possibly Neolithic in date
1968:151-171	Broomfield	Lithics, animal tooth and bone, bronze knob, iron object	A number of surface finds included prehistoric tools, including axeheads, waste material, flakes and scrapers and possibly more modern artefacts.
1964:29-30	Broomfield	Flint waste	Surface find of twenty eight flint waste flakes

Table 3:Stray finds from the vicinity of the site

NMI REGISTER NO.	TOWNLAND	FIND	NOTES
		flakes and a gun flint	and a gun flint
1964:64	Yellow Walls	Flint scraper	Surface find of brown flint scraper
1968:120-121	Yellow Walls	Pot sherds	Two glazed sherds of wheel thrown pottery found near the seashore
1974:90	Yellow Walls	Stone axehead	Polished stone axehead found during foundation digging
1964:31	Drinan	Flint core	Flint core found in an embankment near Feltrim.
1947:285- 1053	Feltrim	Various artefacts	Various artefacts recovered during excavation and collected by locals in the vicinity of the site
1964:85	Feltrim	Bronze ring	Bronze coiled ring found on Feltrim Hill
1949:50	Feltrim	Flint arrowhead	Flint leaf-shaped arrowhead found on Feltrim Hill
1947:159	Feltrim	Flint arrowhead	Surface find of flint arrowhead tip
1968:185- 186-92B	Feltrim	Flint artefacts	Stray surface find of nine flint flakes and a flint core
1965:13-16	Feltrim	Arrowheads and stone axe	Polished axe or adze head, a barbed arrowhead and two leaf-shaped arrowheads recovered from Feltrim Hill
1964:71	Feltrim	Bronze ring	Cast bronze ring 2.7cm in diameter. Surface find from Feltrim Hill
1969:22-33	Feltrim	Flint artefacts	Ten flint scrapers and blade, 44 fragments of flint waste material and one chert core. Stray surface finds from Feltrim Hill
1970:181	Feltrim	Polished stone axe	Polished stone axe portion from Feltrim Hill
1965:22	Feltrim	Polished stone adzehead	Polished stone adzehead fragment from Feltrim Hill
1965:55	Feltrim	Flint slug knife	Slug knife of white flint. Stray surface find from Feltrim Hill
1966:63-92	Feltrim	Flint and chert artefacts	Seven flint arrowheads, 22 flint scrapers and one chert knife from Feltrim Hill
1966:122-47	Feltrim	Stone artefacts	Polished stone axehead, flint knives, blades, scrapers, blades, a javelin head and a saddle quern and rubber stones were found in bulldozed material from Feltrim Hill.
1946:333	Feltrim	Roman coin	Bronze Roman coin (284-304 AD) from Feltrim Hill
1967:179	Feltrim	Bronze Mount	Bronze Mount with human face protruding from the top with blue glass studs as eyes. Found near Feltrim Hill
1968:84-119, 172-173	Feltrim	Various artefacts	Various artefacts including a number of lithics, the tooth of a sperm whales, two iron objects and a clay bead were recovered from Feltrim Hill

3.5 CARTOGRAPHIC SOURCES

The following cartographic references were consulted at the Trinity Map Library: Ordnance Survey 6" map of Co. Dublin, 1^{st} edition (1843) and the Ordnance Survey 25" map, Co. Dublin, 3^{rd} edition (1908)

3.5.1 1st Edition Ordnance Survey Map, Co. Dublin (1843)

The Ordnance Survey, undertaken in the 19^{th} century, was part of a countrywide effort to enable the accurate valuation of all property and assess liability for taxes and rates. The Ordnance Survey maps illustrated the Irish landscape with a level of detail not attempted before that time. The 1^{st} edition OS map depicting the proposed development area was published in 1843.

Comparison of the 1837 map with recent OS mapping indicates that there has been substantial change to the area during the intervening years (Fig. 2 and 3). The 1837 map depicts Auburn House and its associated buildings as the only structures within the area of the proposed site. A significant proportion of the northern part of the development was covered by woodlands associated with Auburn House. Just beyond the proposed development area and to the south two gravel pits are depicted. To the east of Feltrim Hill the windmill, earthwork and holy well are depicted but several quarries and encroaching onto the sites.

3.5.2 3rd Edition Ordnance Survey Map, Co. Dublin (1908)

The 3rd edition OS map (1908) shows little appreciable difference when compared with the 1st edition map (1843). Three additional building appear on this map and the small fields in the south-western area of the proposed development have been joined together to form larger fields. By the time Feltrim Hill was surveyed the earthwork had been completely destroyed by quarrying and the windmill is recorded as 'in ruins'. Lady's Well is also marked. In the intervening years the field layout has remained mush the same with the exception of the division of small plots for houses along the road.

3.6 TOPONYMS

The site of the proposed development is situated in the townlands of Streamstown and Auburn. While Auburn remains the same in Irish Streamstown translates to *Baile an tSrutháin* meaning home of the streams. The village to the west of the site is known as Feltrim or *Fealdruim/ Faoldroim* meaning Wolf Ridge (Flanagan and Flanagan 1994).

4 **Results of Field Inspection**

A field walkover inspection was carried out in the subject site area in order to:

- ∉ verify the location, extent and condition of known features (if any)
- ∉ identify and record the location, extent and condition of new features (if any)
- ∉ identify areas of potential archaeological interest where no upstanding features are visible (e.g. wetlands, river crossings, or areas between concentrations of upstanding features)
- ∉ assess potential impacts of a proposed development on all of the above to gather information towards detailed and specific proposals for avoidance or mitigation of these impacts.

The study area comprises a series of fields and properties (Areas A-J), which taken together have an overall east west extent of 800m and an overall north south extent of 375m (Fig. 4). The inspection was carried out on the 11^{th} of November 2008 in dry, sunny conditions.

Area A consists of the property of Auburn House and its grounds, which has a total area of 11.6 Hectares.

The southwest corner of the property consisted of an overgrown grass field, bordered by a tarmac roadway to the west, mature hedgerows and tree lines to the north and east and a water filled boundary ditch and low bank to the south (Plates 1-3). The field itself sloped broadly downwards from west to east. An elevated area was noted towards the west end of the field, with an area of uneven, rutted ground covered with scrub at the southwest side of the elevation.

Immediately to the south of this field, on the other side of the water filled ditch described above, was an area of dense woodland at the rear of Auburn House (Plates 4-6). A pathway did extend in a broad north to south direction through this wooded area, but in general the tree and shrub growth was too dense to determine whether or not any archaeological features were present.

To the east of the overgrown field and wooded area was a fenced area of short grass, which was being as grazed by horses (Plates 7-9). This field was irregular in shape and was defined by a modern wooden fence, with a line of young trees planted at regular intervals around the north and northeast side, running parallel to the fence. The field was generally flat in appearance around its periphery, but had an elevated area towards the centre-west. Towards the northwest the ground was slightly uneven, with a slight, northeast to southwest aligned, linear depression visible towards the perimeter fence (Plate 10).

Bordering the southeast corner of this field was a cropped grass lawn, defined at the west, southwest, northeast and north by a water filled boundary ditch and hedgerow, and at the southeast by a modern building (Plate 11). This lawn sloped downwards from the southeast to northwest.

The approach to Auburn House consisted of a tarmac driveway, which was bordered at the north and northeast by cropped grass and a mature tree line and at the south and southwest by a strip of woodland, adjoining a narrow stream, which curved from the south east to the west (Plates 12-13).

On the west and southwest side of the stream, to the southeast of Auburn House, was a group of three modern or recently converted buildings, sited around a gravel-covered courtyard (Plate 14). At the east side of this group of buildings was a mown lawn with some formal garden features. A number of modern features were associated with the stream in this area, including a wooden footbridge and a concrete sluice gate (Plates 15-16). The stream was culverted at several points to allow access from the driveway to the property on this side of the stream. To the south and west of the modern buildings and courtyard were four adjoining walled gardens, which had been modified to varying extent

in recent years with the inclusion of tennis courts and other recreational features (Plate 17). The courtyard was approached by a small, north south aligned lane extending off the main driveway, and to the west of this lane was a small yard with central shed buildings, which was used as a storage and maintenance area (Plate 18).

Area B was a broadly rectangular shaped area measuring 1.6 hectares, which abutted the southwest side of the Auburn House property. This area consisted of a mown grass and scrub field, with an elevated area towards the centre north, which was occupied by a modern bungalow (Plates 19-20). A trial hole or service pit had apparently been excavated at the rear of the bungalow, on the north side of the property. This area was defined at the north by a narrow field boundary ditch, aligned with the above described stream, at the west by a boundary ditch and tar macadam road, and at the east and south by mature hedgerows.

Area C was located to the south of Area B, and comprised a broadly rectangular, east west aligned field, with an adjoining yard area, which was occupied by the offices of a landscaping firm (Plate 21). This field measured 2.9 hectares in area and was defined by field boundary ditch and external hedgerow at the east, a young tree line and the tar macadam road at the west, a mature hedgerow at the north, and a young hedgerow and tree line at the south. The field consisted of overgrown grass and was highest at the centre, with gentle slopes to the north, west and south, and a sharper downwards slope to the fields lowest point at the east (Plate 22).

Area D was an L-shaped property measuring 0.73 hectares in area, abutting the south side Area C. This property consisted of a manicured lawn defined by sculpted hedgerows and garden fences (Plate 23).

To the east of these last two Areas and abutting the southeast edge of the Area A, were four adjoining properties (Areas E-H). Where visible all four appeared to consist of private residences with mown grass lawns, defined by fences and mature hedgerows.

The areas discussed above were all located on the northern side of an east to west running public road, two further survey areas were located on the south side of this road. The first of these, Area I, measured approximately 90m north south by 50m east west; again, this property was not accessible but clearly consisted of a private residence with mown lawn and driveway, with its borders defined by tree lines and mature hedgerows.

The second of these properties, Area J, was an east west aligned, broadly rectangular shaped area measuring 175m east west by 150m north south. This property was surrounded by hoarding and could not be viewed at this date. However, spoil heaps were visible beyond the hoarding and the site had clearly been subject to soil reduction and development in the recent past. Although there was a gated entrance and office huts at the southeast corner of the site, there was no construction activity at this date and the site was closed.

No recorded or previously unidentified monuments were positively identified in the subject area during the assessment; however not all of the study area could be accessed at this date and there is the possibility that the inaccessible areas may contain features of archaeological significance. Also, although no features of obvious archaeological significance were noted on the field surfaces, it is possible that sub surface archaeological remains may survive, and any such sub surface features could be negatively impacted upon by the proposed development.

5 Summary & Conclusions

5.1 This report indicates that the site of the proposed development in the townlands of Streamstown and Auburn, which are situated within an area of moderate archaeological activity spanning from the prehistoric to the medieval period.

5.2 The County Dublin Record of Monuments and Places (RMP) does not record any archaeological monuments within the Local Area Plan boundary.

5.3 In the hinterland of the proposed development site there are known archaeological monuments which include a Neolithic habitation site, possible ringfort or barrow site, a cashel, a holy well, two medieval churches and associated graveyards, a windmill and a landscape feature. The range of types of recorded monuments and structures within the hinterland of the proposed development site attests to human occupation and settlement in the area from prehistory to the present day.

5.4 A search of the topographic files at the National Museum did not identify any artefact findspots from the townlands of Streamstown or Auburn; however, several artefact findspots from the neighbouring townland have been identified.

5.5 The Excavation Bulletins 1970-2004 show that no previous archaeological excavations have been undertaken within the proposed development area. However, a landscape feature was excavated in the townland of Auburn immediately west of the proposed development. It should be noted that in the neighbouring townland Drinan a pit and a ringditch were excavated in two separate developments. Bronze Age activity was identified at Broomfield. A substantial Neolithic habitation site and medieval cashel were excavated on Feltrim Hill, just west of the development.

5.6 The County Dublin Record of Protected Structures (RPS) does not record any protected structures within the Local Area Plan boundary.

5.7 The Local Area Plan area comprises a series of fields and properties (Areas A-J). Not all areas of the proposed development could be accessed, thus there is the possibility that the inaccessible areas may contain features of archaeological significance. Nothing of apparent archaeological significance was identified during the field inspection. It is possible; however, that sub surface archaeological remains may survive, and any such sub surface features could be negatively impacted upon by the proposed development.

5.8 It is considered possible, given the number of known archaeological site and artefact findspots in the neighbouring townlands that as yet unknown subsurface archaeological remains may exist within the proposed development area.

5.9 Construction or preconstruction groundworks have the potential to impact any as yet unknown subsurface archaeological remains that may potentially survive within the proposed development area.

6 RECOMMENDATIONS¹

This study has shown that no recorded monument exists within the Local Area Plan boundary. This study has also shown however that there are a number of recorded archaeological monuments in the hinterland.

Given that the proposed development would have a negative impact on any potential unknown archaeological remains or artefacts that may survive below ground it is recommended that:

6.1 Due to the large size of the proposed development area a geophysical survey would be advisable to ascertain whether any archaeological sites survive below ground.

6.2 If planning permission for any development at this location to proceed is granted, a full programme of pre-development archaeological test trenching should be undertaken by a licensed archaeologist throughout the development area. In this way the extent, nature and significance of any as yet unknown archaeological material that might potentially survive below ground may be determined at the earliest possible stage.

6.3 Following on from the results of the test trenching further archaeological mitigation strategies such as the excavation, preservation by record or preservation *in situ* of uncovered archaeological features may be required by the relevant heritage authorities. Further to the results of testing the heritage authorities may also require that all topsoil stripping and ground works associated with the proposed development be monitored by a licensed archaeologist.

6.4 All recommendations in this report are subject to discussion with and approval from the relevant authorities, which will advise on any further remedial action that they may consider necessary.

6.5 The principles as outlined in the document Framework and Principles for the Protection of the Archaeological Heritage (Dept of Arts, Heritage, Gaeltacht & the Islands, 1999) have been taken into account in the compilation of these recommendations².

6.6 The developer's attention is drawn to the relevant sections of national monuments legislation, the National Monuments Legislation 1930-1994, which state that in the event of the discovery of archaeological finds or remains that the relevant authorities, that is the Department of the Environment, Heritage and Local Government (DoEHLG) and the National Museum of Ireland should be notified immediately. These institutions can be contacted at:

National Museum of Ireland,	National Monuments Service
Kildare St.	Dun Sceine
Dublin 2	Harcourt Lane
	Dublin 2

¹ All archaeological recommendations are subject to the approval of the relevant heritage authorities. The principles & recommendations as outlined in the *Framework and principles for the protection of the archaeological heritage* document (Dept. of Arts, Heritage, Gaeltacht & the Islands 1999) have been taken into account in compiling Section 5.

² In summary the framework and principles document sets out the national policy with regard to the archaeological heritage. Its core principles are:

[∉] The archaeological heritage is a finite, non-renewable resource.

[∉] There should always be a presumption in favour of avoidance of developmental impacts on the archaeological heritage and preservation in situ of archaeological sites and monuments must be presumed to be the preferred option

[∉] Where archaeological sites or monuments have to be removed due to development then it is essential that the approach of preservation by record be applied

[∉] The carrying out of an archaeological assessment where appropriate (or where part of a planning condition) is the first step in ensuring that preservation in situ and preservation by record take place

[∉] The costs of archaeological work necessitated by development are a legitimate part of development costs.

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Appendix I: Record of monuments and places

List of recorded archaeological sites and monuments within the vicinity of the proposed development.

RMP No Townland Nat Grid Ref Classification Description	DU012-02501 Feltrim 32006/24455 Cashel Site Situated on the west summit of Feltrim hill. Prior to quarrying, the site comprised an oval area (35m east-west, 25m north-south) enclosed by a drystone wall (2m wide, 1m high). Entrance in the east (2m wide), originally protected by an inner and outer timber gate (Eogan and Hartnett 1964, 21). Excavation in the late 1940s produced extensive evidence for an impressive domestic assembly on the site. Eogan and Hartnett 1964, 21
RMP No Townland Nat Grid Ref Classification Description References	DU012-02502 Feltrim 32006/24 Habitation Site As with DU012-02501 No entries
RMP No Townland Nat Grid Ref Classification Description References	DU012-026 Feltrim 32023/24461 Holy Well Known as 'Lady Well'. Formerly located on the north facing slope of Feltrim Hill. This site was removed during quarrying operations (Ó Danachair 1958, 79). Ó Danachair 1958, 79
RMP No Townland Nat Grid Ref Classification Description	DU012-027 Feltrim 32033/24452 Windmill Site Located on the summit of Feltrim Hill. According to Flanagan this was erected as a wooden mill after 1667 using Dutch bricks (1984, 52–59). It was converted to a corn mill in the 19 th century. Originally this was of cylindrical shape and tapers towards the top rising to three-storeys in height. Demolished Oct 23 rd 1973 except for base. Flanagan 1984, 52–59
RMP No Townland Nat Grid Ref Classification Description	DU012-028 Auburn 32083/24465 Mound The site was excavated in 1982. This mound was also known as the 'fairy dell'. It lay approximately 7.5m OD and was overlooked by higher ground to the north, south and west. A small river flows close to the south of the mound. The mound was circular in shape (15m in diameter, 1m high). The mound was saucer shaped with steep sides and no evidence for an accompanying ditch or kerb. Several sherds of pottery were recovered from the mound and included late 13 th /early 14 th century examples and 17 th /18 th century sherds, indicating a terminus ante quem of the late 17 th /early 18 th century for the construction of the mound. It is probable that this was a landscape feature (Keeling, D 1985).

References	Flanagan 1984, 74 Keeling, D 1985
RMP No Townland Nat Grid Ref Classification Description	DU012-029 Malahide Demesne 32175/24551 Earthwork Site This site was marked on the 1937 OS edition map but has been since quarried out. According to Westrop (1915) the site originally comprised an earthen platform <i>c</i> .17m in diameter, enclosed by a fosse (3–4m wide), a bank (2m wide) and an outer fosse (3–4m wide, 1m deep). It was quarried in the centre for gravel when Westropp visited it. Healy, P. 1975, 26 Westropp, T.J. 1915 152
RMP No Townland Nat Grid Ref Classification Description	DU012-030 Malahide Demesne 32201/24542 Castle/Cast Marked in OS maps 1843 and 1937 editions. This is an occupied medieval castle with later additions. The medieval great hall is still preserved and dates to the 15 th century. The castle was re-roofed and added to in the 19 th century. The opposite side of the castle to the great hall once contained four tapestry hung rooms but these were destroyed by a fire in 1760. It was rebuilt in the 1770s in Georgian Gothic character and two large drawing rooms replaced the four smaller rooms. Healy 1975, 26 Anon 1897, 456-7 Anon 1914, 255-7 Little, G.A 1948-9, 8-12 Flanagan, N 1984, 22, 24, 25-42
RMP No Townland Nat Grid Ref Classification Description References	DU012-031 Malahide Demesne 32207/24542 Ecclesiastical Remains This is a heading entry used to indicate an archaeological complex. This is an obsolete term in the Archaeological Survey of Ireland and the record is redundant. No entries
RMP No Townland Nat Grid Ref Classification Description	DU012-03101 Malahide Demesne 32206/24545 Church Marked on both 1843 and 1937 OS map editions. Located in the grounds of Malahide castle. The remains comprise a nave (L16.9m, Wth 6.8m) and chancel (L8.8m, Wth 5.6m) with a two storied sacristy attached to the southeast corner. There are stepped battlements on the north and south walls of the nave. Built of coursed, well mortared limestone masonry. There as buttresses against the west gable either side of the window and a batter or buttress in the southwest corner. The church is entered towards the west end of the nave through diametrically opposed doorways with pointed arches, chamfered jambs and hood moulding. The area of the hood mouldings on the exterior of the south door is surmounted by a 'mitred head' and a zoomorphic figure at one of the hood moulding terminals. There are bolt holes present. Inside the south door is a red sandstone stoup secured to the wall and an alter tomb dedicated to Maud Plunkett (D. 1494) with a recumbent effigy of a female figure in a horned cap. Interior is lit by a fine

References	triple light, ogee-headed W window of 15 th century date and two double-light tracery windows in the east end. Above the west gable is a triple bellcote with steps leading up to it. The chancel is entered through a pointed, segmented chancel arch. Interior is lit by wide, flat-arched windows in the south wall. The east window is a large, limestone, triple-light, tracery window. Corbels project from the east wall at altar level. There is an external stairs to first floor which contains a fireplace and wall presses in the east wall. At the exterior east gable wall there is a sheela-na-gig (Healy 1975, 26; Anon 1914, 257; Hartnett, P.J. 1954, 179–181). Another sheela-na-gig is built into a quoin at the northeast angle of the chancel. Healy 1975, 26 Anon 1897, 457–8 Anon 1914, 257 Little, G.A 1948–9, 6–8, 66–67 Flanagan, N 1984, 43–51 Hartnett, P.J. 1954, 179–181
RMP No Townland	DU012-03102
Nat Grid Ref	Malahide Demesne 32207/24545
Classification Description	Sheela na Gig A sheela-na-gig is built into a quoin at the northeast angle of the chancel of the medieval Church. Comprises a framed seated figure carved in false relief on red-sandstone block. It has a large shapeless head, short neck and squashed body (Hartnett 1954, 179).
References	Hartnett, P.J. 1954, 179
RMP No Townland Nat Grid Ref Classification Description	DU012-03103 Malahide Demesne 32206/24546 Sheela na Gig At the exterior east gable wall of the church there is a sheela-na- gig (Healy 1975, 26; Hartnett 1954, 179, 181). It comprises a carved head and neck in red sandstone, the lower portion is
References	damaged. The facial features are well pronounced. Hartnett, P.J. 1954, 179–180 Healy 1975, 26
RMP No	DU012:03104
Townland Nat Grid Ref	Malahide Demesne 32490/24402
Classification	Architectural fragment
Description References	Apex on the exterior of the south door of the church contains a `mitred head'. No entries
RMP No	DU012:03105
Townland Nat Grid Ref	Malahide Demesne
Classification	32207/24543 Tomb
Description	In the interior of the church there is an altar tomb dedicated to Maud Plunkett (d. 1494) with a recumbent effigy of a female figure in a horned cap.
References	No entries
RMP No Townland Nat Grid Ref Classification Description	DU012:03106 Malahide Demesne 32208/24543 Graveyard Graveyard associated with church. No further details available.
Townland Nat Grid Ref Classification	Malahide Demesne 32208/24543 Graveyard

References	No entries
RMP No Townland Nat Grid Ref Classification Description	DU015-00201 Kinsaley 32178/24314 Church This roadside church is a plain rectangular building, aligned east- west and built of random rubble masonry. Only the nave survives (L10.25m, Wth 5.10m, wall T0.95cm). There are opposed pointed arched doorways in the west end of the nave. The interior is lit by narrow slit apes on the south wall and a tall round arched window at loft level in the west gable which contains a double bellcote. The chancel arch is all that survives of the chancel. It is of pointed segmental type. Probably late medieval in date.
References	Healy 1975, 28
RMP No Townland Nat Grid Ref Classification Description	DU015:00202 Kinsaley 32178/24314 Graveyard A rectangular walled graveyard by the roadside. There is a kink in the wall along the southeast section possibly indicating the former existence of an earlier enclosure.
References	No entries

Appendix II: Previous Excavations

2004:0503

List of previous excavations undertaken in the vicinity of the proposed development

Previously published archaeological excavations in the area from 1970 to 2004 (<u>www.excavations.ie</u>) are summarised in chronological order below.

Site name	Auburn
Nat Grid Ref	O207445
Excavation No.	Not available
Excavations ref.	1980-84:0093
Classification	Landscape feature
Description	Keeling, D. (1985) 'Excavation of a mound at Auburn, Malahide,
	Co. Dublin' Dublin Hism'. Record 38, No.3, 103-6.
Author	D. Keeling, "Waterfront", Kilcreagh, Donabate, Co. Dublin

Site name Nat Grid Ref Excavation No. Excavations ref. Classification Description **Drinan/Nevinstown East** 31920 2540 03E1362 ext.

Pit The monitoring of a large-scale development in the townlands of Drinan and Nevinstown East, Swords, Co. Dublin, commenced in 2003. This first phase of monitoring was conducted by Christine Baker (Excavations 2003, No. 489); nothing of an archaeological nature was uncovered. The second phase of development was monitored over the summer of 2004. This phase was located on a greenfield site on relatively high ground that sloped gently towards the north.

During the monitoring, one feature, a subrectangular pit c. 3m in length, 1m in width and up to 0.8m in depth, was located at the southern limits of the site, on the high ground. At the base of the pit were nine stake-holes, eight around the base perimeter and one centrally placed. The pit contained three distinct fills. These were all variants of compact grey clay with much charcoal. The date and function of the pit are not known. It may, however, indicate the presence of further archaeological activity in the fields to the south, Phase 3 of the housing development. Monitoring of this phase is due to take place during 2005.

Abi Cryerhall, Margaret Gowen & Co. Ltd, 27 Merrion Square, Dublin 2.

Site name Nat Grid Ref Excavation No. Excavations ref. Classification Description

Author

Mountgorry Site B, Malahide Road, Drinan 3196 2451 04E1066 2004:0504 Ring-ditch The site was identified during monitoring (03E1505) by Stephen Johnson for a residential development. The development is just to the south-west of the junction of the Malahide Road and the new M1 Northern Motorway. The site was situated on high ground that sloped gently down to the north. A second site, Mountgorry Site A, located 150m to the south-east, is currently being excavated and

will be reported on in Excavations 2005.

Mountgorry Site B consisted of a circular ditch opening to the south-east. A single large pit filled with charcoal and burnt bone was found in the centre of the ring-ditch. These features were associated with Bronze Age pottery. A number of post-medieval agricultural features were also present.

The ring-ditch was of subcircular shape with fairly steep edges and a concave base. It measured 18m (north-south) by 20m in diameter and c. 0.25m in depth. The width of the ditch varied from 0.5m to 0.9m, averaging 0.6m. A 3m-wide entrance into the ditched enclosure was found to the south-east. The ditch thinned noticeably to 0.3m in width at the entrance terminus. The ditch was substantially levelled, probably due to modern agricultural activity. It was also cut by three east-west-running field drains.

In general, the ditch was primarily filled by a pale-yellowish-brown sandy silt with small stones, animal bone and flecks of charcoal. Over this was a dark-grey clayish-silt with burnt and unburnt stone, animal bone and frequent charcoal. Two pieces of unworked flint and one possible crude flint scraper were retrieved from the fill. Two fragments of a heat-fractured polished stone and fragments of Bronze Age pottery were recovered from the northern end of the fill.

A single large pit was located centrally within the area enclosed by the ring-ditch. It was an irregular oval shape and measured 1.9m long (north-south) by 1.7m wide and 0.45m deep. The sides of the pit were generally steep, but along the eastern edge the side was vertical or slightly undercut. A number of small pockets or notches were noted within the pit, c. 0.15m in diameter.

The fill consisted of a dark-greyish-black clayish-silt with a high frequency of charcoal. Ash was noted towards the base of the pit, but otherwise the fill was relatively homogenous. The fill also contained fire-cracked pebbles and small stones, and burnt and unburnt bone. Small fragments of possible Bronze Age pottery were also retrieved from the pit. Based on the feature's irregular shape (suggesting numerous cuts), central location within the ditch enclosure, and fill, it is suggested that it functioned as a multiple burial pit.

Fragments of pottery, preliminarily dated to the Bronze Age, were recovered from the ditch fill and the central pit. A Bronze Age date fits in well with the general date range for ring-ditches. Ring-ditch sites are not uncommon and generally consist of a circular or penannular ditch ranging from 5m to 25m in diameter. All are associated with cremated human remains, which are generally found in the ditch or in separate pits. At several of the excavated sites, for example Kilmahuddrick, Co. Dublin, excavated by Ian W. Doyle (Excavations 2000, No. 225, 00E0448), and Tullyallen, Co. Louth, excavated by Robert M. Chapple (Excavations 2000, No. 715, 00E0429), a centrally located pit within the enclosed area revealed cremated bone and Bronze Age pottery.

John Waddell suggests (Waddell 2000, 161) that simple cremations in pits associated with ring-ditch sites may date to the later part of the Bronze Age, after 1500 BC. Ring-barrows and ring-ditches appear to have been constructed from the later Bronze Age to the early centuries AD (ibid., 366-8). These monuments relate to funerary practices that generally involved cremation (ibid., 368). Antoine Giacometti, 71 The Coombe, Dublin 8, for Arch-Tech Ltd.

Author

Site name Nat Grid Ref Excavation No. Excavations ref. Classification Description

Malahide Castle, Malahide Demesne

32210 24544 04E1528 2004:0625 Post-medieval garden

A watching brief on engineering pits was undertaken in the grounds of Malahide Castle in the area of the Barbican Tower, within a garden known as the 'Chicken Yard'. The work was necessitated by the apparent subsidence of the tower itself. Two pits were excavated down the side of the tower's stone foundations, which were stepped out by c. 0.1m. The foundations were bedded directly onto natural clay, with the slightest of construction cuts, which may actually have been formed by subsidence rather than by design. A thin layer of redeposited natural clay incorporating building materials lay above this, which in turn was sealed by garden topsoil. Although assumed to date from the 14th century, a visual inspection of the tower strongly suggests a much later date, an impression bolstered by the building material recovered from the redeposited natural. The associated garden was instated by 1801, and the tower construction may be contemporary with this. Far from fulfilling a defensive function during the early history of the castle (land granted to Richard Talbot by Henry II in 1185), it appears that the tower was built in imitation of castellated defensive architecture. It was not purely a folly, however, as it was used as a pigeon loft, apple store, garden store and, most interestingly, as a bee house for over-wintering bees. The western wall of the ground-floor chamber has 28 structurally integral niches: sixteen smaller ones for the collection of wax and twelve larger recesses at a lower level to hold the skeps themselves.

Tim Stevens and Ruairi O'Baoill, Archaeological Development Services Ltd, Unit 48, Westlink Enterprise Centre, 30-50 Distillery Street, Belfast BT12 5

Site name Nat Grid Ref **Excavation No.** Excavations ref. Classification Description

Author

Broomfield

0163546 Not Available 1985:23 Circular Ditched Enclosure This site is one of three barely visible circular ditched enclosures, situated just below the south-facing brow of a low E./W. ridge, on the 150' (45.7m) contour. Excavation revealed a flat circular area, 14m. in diameter, enclosed by a ditch 0.90 to 1.00 m. deep (50 -60 cm. into subsoil), with slight internal bank (10 - 15 cm. high X 1 - 1.5m. wide) and sixteen pits. Fifteen of these pits were contemporary with the enclosure. One pit (No. 1 6) was earlier and was sealed beneath the internal bank. Around the entire circumference of the base of the ditch a line of 2" tile drains (c. 1800 - 1850) had been inserted, and a sod drain had been dug across the interior of the enclosure.

Pits Nos 1 and 12 contained remains of tree roots:- Pinus sylvestris (Scots pine) and Taxus (Yew) or Pseudotsuga menziesii (Douglas fir M. Scannell). Pit No. 16 (sealed beneath the internal bank) was larger and deeper than the other pits and yielded three sherds of Beaker pottery, a quantity of charcoal, Quercus (Oak), and burnt earth.

The evidence points to the enclosure being the remains of a ploughed out tree ring which had been erected in the I8th/I9th century upon an area of Early Bronze Age activity. Betty

Author

O'Brien

Appendix II: Topographic files

List of stray finds from the vicinity of the proposed development

NMI Register No. Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

NMI Register No.

Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

NMI Register No. Find(s)

Monument Townland Parish Barony County Method of Acquisition Notes

1966:42

Fragment of flint scraper N/A Broomfield Portmarnock Coolock Dublin N.G. Flanagan Honey brown flint side scraper, partly cortex covered (L 2.8cm, W 1.9cm, T 4mm). Surface find.

1968:174-184

Flint cores, scrapers and flakes N/A Broomfield Portmarnock Coolock Dublin Declan Cahill Twenty flint cores, two hollow scrapers and 62 flint flakes were acquired from Declan Cahill. All were stray surface finds and probably date to the Neolithic

1968:151-171

Two stone axeheads, waste, flakes, scrapers, animal tooth, bone fragment, bronze knob, iron object N/A Broomfield Portmarnock Coolock Dublin N.G. Flanagan Several stray surface finds were handed into the museum by N.G. Flanagan. The finds include two polished stone axeheads, flint waste material, flint flakes, flint scrapers and chert flakes. Other finds include a worked animal tooth that has been blunted and polished, a transversely sawn piece of animal bone, a bronze or brass knob of probably modern date and a small cylindrical iron object which was fractured at one end.

NMI Register No.
Find(s)
Monument
Townland
Parish
Barony
County
Method of Acquisition
Notes

1964:29-30

Flint waste flakes and a gun flint N/A Broomfield Portmarnock Coolock Dublin N.G. Flanagan Twenty eight flint waste flakes and a gun flint were acquired by the museum. All were surface finds.

NMI Register No.
Find(s)
Monument
Townland
Parish
Barony
County
Method of Acquisition
Notes

1964:64 Flint scraper N/A Yellow Walls Malahide Coolock Dublin N.G. Flanagan Brown flint scraper with part of the cortex still in place. Wedge shaped in cross section with secondary chipping (L 4.4cm, W 3.4cm, T 2.3cm). Found near the shore.

NMI Register No. Find(s) Monument Townland

Method of Acquisition

Parish

Barony

County

Notes

Potsherds N/A Yellow Walls Malahide Coolock Dublin N.G. Flanagan Two glazed sherds of wheel thrown pottery found near the seashore. The first sherd is brick red ware with a red brown glaze on one side and chocolate brown and yellow-streaked glaze on the other. The second sherd is possibly part of a dish with a dark brown glaze.

NMI Register No.

Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

NMI Register No. Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

1974:90

1968:120-121

Polished stone axehead N/A Yellow Walls Malahide Coolock Dublin N. Gaughan Polished stone axehead, triangular in shape and oval in cross section with the butt pointed (L 20.5cm, max. W 6.8cm, min. W 1.3cm, T 4cm). Found during deep foundation digging in the 18th century.

1964:31

Flint core N/A Drinan Kinsaley Coolock Dublin N.G. Flanagan Water rolled flint core with flakes struck off two faces. White in colour with some cortex remaining (L5.2cm, W5.1cm, W 2.4cm). Found in an embankment near Feltrim.

NMI Register No. Find(s) Monument Townland Parish Barony County Method of Acquisition

Various artefacts Feltrim Hill

1947:285-1053

Feltrim Hill Feltrim Kinsaley Coolock Dublin Through excavation and Miss Stackpoole, Miss Brodigan and G.F. Mitchell

Various artefacts recovered during the excavation of the Notes cashel on Feltrim Hill by P.J. Hartnett in the 1940's. Early medieval artefacts including pins, ring brooches, bone combs, iron knives, and jet beads were recovered. The excavations also produced a number of Neolithic lithics. A range of artefacts were also collected by Miss Stackpoole, Miss Brodigan and G.F. Mitchell.

NMI Register No. Find(s) Monument Townland Parish Barony County **Method of Acquisition** Notes

1964:85

Bronze ring Feltrim Hill Feltrim Kinsaley Coolock Dublin J. Thompson Bronze ring made of a coiled strip of bronze, now corroded to a green colour and broken at both ends (1.55cm diameter). Found among bulldozed material from the quarry at Feltrim Hill.

NMI Register No. Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

NMI Register No. Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

NMI Register No. Find(s) Monument Townland Parish Barony County Method of Acquisition Notes

1949:50

Feltrim Hill

Feltrim

Kinsaley

Coolock

Dublin

Flint arrowhead

Miss R. Birmingham

1947:159 Flint arrowhead N/A Feltrim Kinsaley Coolock Dublin **Olaf Raftery** Tip of flint arrowhead, triangular in outline and elliptical in cross section. Trimming all over both faces (L 1.2cm, W 1.6cm, T 1.3 cm). Surface find.

Flint leaf-shaped arrowhead found on Feltrim Hill.

1968:185-186-92B

Flint artefacts Feltrim Hill Feltrim Kinsaley Coolock Dublin Declan Cahill Small multifaceted flint core (L 3cm, W 1.9cm) and nine flint flakes ranging between 2.55cm - 4cm in length. All stray surface finds from Feltrim Hill.

NMI Register No. 1965:13-16 Arrowheads and stone axe Find(s) Monument Feltrim Hill Townland Feltrim Parish Kinsaley Baronv Coolock Dublin County Method of Acquisition N.G. Flanagan Notes Polished greenstone axe or adze head (L 9.5cm, W 4.8cm, T 2.75cm). Barbed arrowhead with secondary working on one face (L 2.4cm, W 2cm, T 4mm). Two leaf-shaped flint arrowheads with evidence of secondary working (L 3.7cm, W 1.85cm, T 5mm; L2.4cm, W1.3cm, T 3mm). All found amongst bulldozed material from Feltrim Hill. **NMI Register No.** 1964:71 Find(s) Bronze ring Monument Feltrim Hill Townland Feltrim Parish Kinsaley Barony Coolock Dublin County **Method of Acquisition** N.G. Flanagan Notes Well preserver bronze ring, now patented green in colour (2.7cm in diameter). The casting seems to have been flattened but not removed. At opposite points of the external perimeter are two flattened areas as if the ring was cast in a row of similar rings which were then segmented. Surface find from Feltrim Hill **NMI Register No.** 1969:22-33 Flint artefacts Find(s) Feltrim Hill Monument Townland Feltrim Parish Kinsaley Barony Coolock County Dublin Method of Acquisition N.G. Flanagan Ten flint scrapers and blade, 44 fragments of flint waste Notes material and one chert core. Stray surface finds from Feltrim Hill **NMI Register No.** 1970:181 Find(s) Polished stone axe Monument Feltrim Hill Townland Feltrim Parish Kinsaley Barony Coolock County Dublin Method of Acquisition M. Morris Notes

Polished stone axe portion, broken near butt and along one side (I 5.6cm, max W 6.2cm, min W 4.6cm, T 4.3cm). Some cortex remaining and relatively highly polished. Stray surface find from Feltrim Hill

NMI Register No. 1965:22 Polished stone adzehead Find(s) Monument Feltrim Hill Townland Feltrim Parish Kinsaley Baronv Coolock Dublin County Method of Acquisition J. Thompson Notes Polished stone adzehead fragment (L 7.8cm, W 6.9cm, T 3.6cm). Badly damaged and made from Lambay Porphry. Found in bulldozed material from Feltrim Hill. **NMI Register No.** 1965:55 Find(s) Flint slug knife Monument Feltrim Hill Townland Feltrim Parish Kinsaley Barony Coolock County Dublin N.G. Flanagan **Method of Acquisition** Slug knife of white flint with striking platform present (L Notes 5.75cm, W 2.2cm, T 6mm). Secondary chipping along the edges and several longitudinal flakes have been removed on one face. Stray surface find from Feltrim Hill. **NMI Register No.** 1966:63-92 Flint and chert artefacts Find(s) Monument Feltrim Hill Townland Feltrim Parish Kinsaley Coolock Barony Dublin County **Method of Acquisition** N.G. Flanagan Notes Seven flint arrowheads, 22 flint scrapers and one chert knife were found in bulldozed material from Feltrim Hill. **NMI Register No.** 1966:122-47 Find(s) Various stone artefacts Monument Feltrim Hill Townland Feltrim Parish Kinsaley Barony Coolock Dublin County N.G. Flanagan Method of Acquisition Polished stone axehead, flint knives, blades, scrapers, Notes blades, a javelin head and a saddle guern and rubber stones were found in bulldozed material from Feltrim Hill. **NMI Register No.** 1946:333 Find(s) Roman coin Feltrim Hill Monument Townland Feltrim Parish Kinsaley Baronv Coolock Dublin County

C. Cooke

Bronze Roman coin found just under Feltrim Hill. It is a

third brass of diocletion (284-304 AD)

Method of Acquisition

Notes

NMI Register No.
Find(s)
Monument
Townland
Parish
Barony
County
Method of Acquisition
Notes

1967:179

Bronze Mount Feltrim Hill Feltrim Kinsaley Coolock Dublin N.G. Flanagan This mount consists of an openwork disc with a human face protruding in relief at the top. The face shows a headband like feature on the brow, two eyes of blue glass studs, a nose and a mouth. The arms and legs are lightly incised. Found 30m north of the cashel on Feltrim Hill in the topsoil. 1968:84-119, 172-173

NMI Register No. Find(s) Monument Townland Parish Barony County **Method of Acquisition** Notes

Various artefacts Feltrim Hill Feltrim Kinsaley Coolock Dublin N.G. Flanagan Two large flint blades (possibly Bann Flakes), polished stone axes, leaf shaped arrowhead, scrapers, blades, flakes, plano-convex knife, arrowheads and a collection of flint waste were recovered. The tooth of a sperm whale, an iron spike and chisel, a bronze stud and a clay bead were also found in bulldozed material from Feltrim Hill.

FIGURES & PLATES

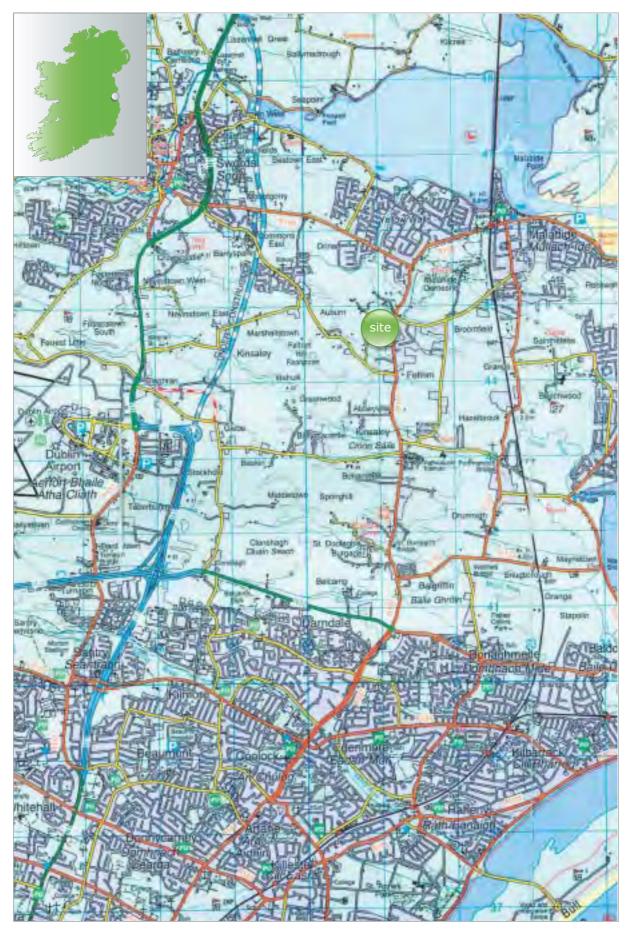


FIG 1: Extract from Discovery Series Map No. 50, showing site location, Scale 1:50,000

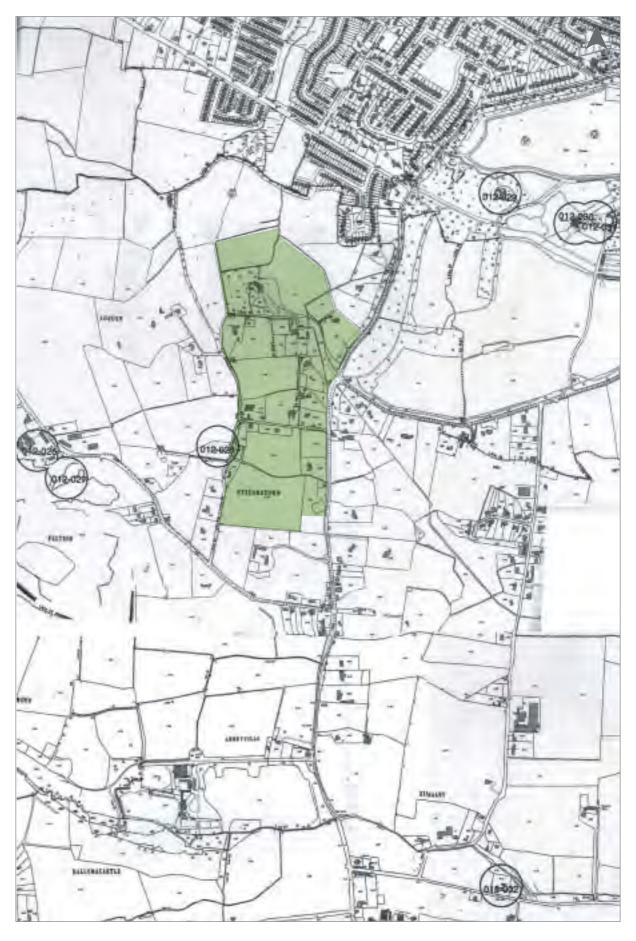


FIG 2: Location of surrounding RMP sites, showing site location

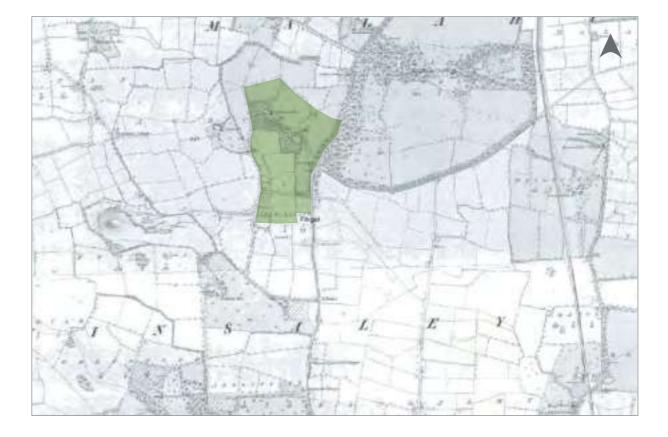


FIG 3: OS Sheet 12 (1st edition) 1843 6" map, showing site location

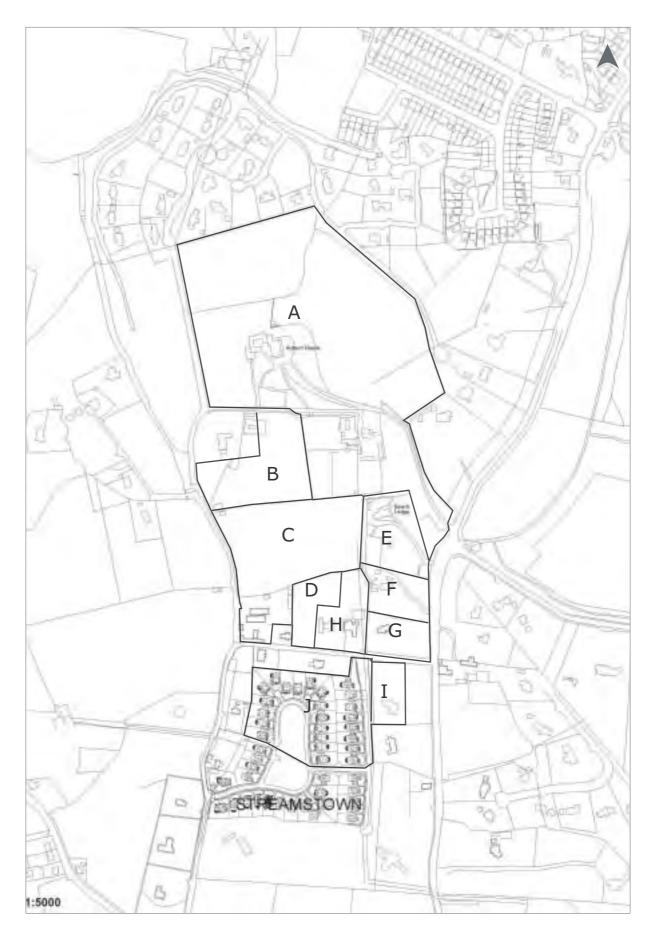


FIG 4: Divisions of site inspection area



PLATE 1: Area A northwest field looking east



PLATE 2: Area A northwest field looking north



PLATE 3: Area A northwest field looking west



PLATE 4: Area A wooded area at rear of Auburn House



PLATE 5: Area A western limit of wooded area



PLATE 6: Area A pathway through wooded area leading to rear of Auburn House



PLATE 7: Area A northeast field looking west



PLATE 8: Area A northeast field looking northwest



PLATE 9: Area A northeast field looking north



PLATE 10: Area A northeast field; uneven ground at northwest



PLATE 11: Area A northern field



PLATE 12: Area A driveway



PLATE 13: Area A stream at south side of driveway



PLATE 14: Area A courtyard



PLATE 15: Area A footbridge



PLATE 16: Area A sluicegate



PLATE 17: Area A walled garden



PLATE 18: Area A yard



PLATE 19: Area B looking southeast



PLATE 20: Area B looking south



PLATE 21: Area C yard



PLATE 22: Area C field looking southeast



PLATE 23: Area C looking north