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Arboricultural Report to BS 5837: 2012 for: EC Harris LLP

Crown Ref: 09056 Site: Maitland Park, Maitland Park Road

Ivan Button 1st April 2014 Author: Date:





Photo 14.



Photo 15.



Photo 16.



Photo 17.



Photo 18.



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Photo 19.



Photo 20.



Photo 21.



Photo 22.



Photo 23.



Photo 24.



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Photo 25.



Photo 26.

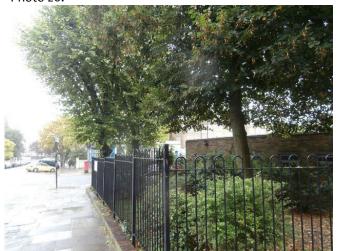


Photo 27.



Photo 28.



Photo 29.



Photo 30.





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Photo 31.



Photo 32.



Photo 33.



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1st April 2014 Author: Ivan Button Date:

Signature 12.

This report represents a true and factual account of the trees and potential impact of development along with proposed protection measures at

> **Maitland Park Maitland Park Road** London NW₃ 2HB

> > Signed

Ivan Button N.C.H. (Arb), FDSc (Arb), BSc (Hons), P.G.C.E., M. Arbor. A.

on behalf of

Crown Consultants Ltd

Dated 1st April 2014



Tree consultants throughout England and Wales

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Author: Ivan Button Date: 1st April 2014

Appendix 1: BS 5837: 2012 – Guidance Notes

This Standard prescribes the principles to be applied to achieve a satisfactory juxtaposition of trees and structures. It sets out to assist those concerned with trees in relation to design, demolition and construction to form balanced judgements.

It acknowledges the positive contribution trees may offer to a site, as well as the negative aspects of retaining inappropriate trees. It addresses the negative impacts that construction activity may have upon trees and offers mitigation strategies to minimise these impacts.

The Standard suggests a three stage approach to ensure best practice is followed when developing close to trees:

A1.1 Stage 1: Survey of Existing Trees

This identifies the existing trees on and adjacent to the site. Data is recorded for each tree and is presented in a Tree Data Schedule. Each tree is allocated a **Retention Category** according to its size, amenity value, condition and safe useful life expectancy. The categories are allocated independently of development proposals. Our interpretation of the Retention Categories is explained below:

A1.1.1 Retention Categories

A Category: Trees of high quality and amenity value. Usually, mature trees with a significant life expectancy which would enhance any development. Retention of these trees is strongly encouraged.

B Category: Trees of moderate quality and amenity value. Usually these are maturing trees or younger trees with exceptional form. Retention of these trees is desirable though the removal of occasional specimens may be acceptable.

C Category: Trees of low quality or small specimens with a relatively low amenity value. These trees are not considered to be a material planning constraint and their removal will generally be seen as acceptable in order to facilitate development.

U Category: Trees of such low quality that their removal is recommended regardless of development proposals.

A1.1.2 Occasionally trees are borderline and do not fall neatly into one of the categories A, B or C. In such cases we apply a superscript (+/-) such that:

C⁺ Indicates borderline C/B, though Category C is deemed to be most appropriate.

B Indicates borderline C/B, though Category B is deemed to be most appropriate.

A1.1.3 The British Standard suggests that each of the A, B and C categories may be further subdivided (A1, A2, A3, B1, B2, B3 etc) such that subcategory 1 denotes mainly arboricultural values, subcategory 2 denotes mainly landscape values and subcategory 3 denotes mainly cultural values (including conservation). Multiple subcategories may be used.

Our experience suggests that these subdivisions lack clarity and can be confusing. Within this report subcategories are **not** denoted. Where appropriate, the use of phrases such as 'Part of a formal group', or 'Has a high ecological value', or 'Offers good screening to the site' are incorporated into the observation section of the Tree Data Schedule. We believe this conveys all relevant landscape and cultural information without any confusion.

A1.1.4 **Tree Constraints Plan (TCP).** This indicates the position, crown spread, Retention Category and Root Protection Area of each tree. It is used to inform where development may proceed without causing damage to trees.

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A1.1.5 Root Protection Area (RPA). This is the area around each tree likely to contain the majority of roots. It should ideally remain undisturbed to avoid a detrimental impact on tree health. For single stemmed trees It is calculated according to the formula "radius of RPA" = "12 x stem diameter". For multiple-stemmed trees a more complex formula is used which may occasionally produce an RPA which seems inappropriately large relative to the trees canopy. This shape can then be modified to take into account site factors which influence rooting activity, e.g. foundations, soil type or impermeable surfaces. Where development works are proposed within the RPA they should be undertaken in a sympathetic manner to minimise root disturbance.

A1.1.5 **Shade Constraints.** The previous Standard (BS 5837 2005) suggested that shade constraints should be indicated on the TCP. This are denoted as a circle-segment drawn northwest to due east with a radius equal to the height of the tree. These do not represent the actual shade pattern which varies through the seasons. Rather, they indicate the area most shaded by the tree throughout the course of the year. Ideally habitable room windows should be located outside of these shade constraints. Where we consider it appropriate, we will include shade constraints information on our Impact Assessment Plan or Proposed Layout Plan.

A1.2 Stage 2: Arboricultural Impact Assessment

After the initial survey and the production of the Tree Constraints Plan, arborists and designers are encouraged to work together to establish a design proposal with minimal impact on the high quality trees. An assessment should be made of all possible impacts including the impact that the trees may have upon the proposal. The arborist may recommend mitigation strategies to minimise these impacts and help achieve a more harmonious juxtaposition between buildings and trees.

A1.3 Stage 3: Arboricultural Method Statement

This type of report specifies the measures necessary to protect trees against damage from construction activity. The Method Statement should be written in a manner that it may be conditioned and enforced by the local authority upon granting of planning permission. The site manager should be familiar with all aspects of the Method Statement and should ensure that all persons working on the site are aware of those aspects which appertain to their work. This includes service installation engineers and operators of plant machinery.

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Appendix 2: Explanation of Tree Data & Glossary

This section explains the terms used in the Tree Data Schedule (see Section 3 and Appendix

General Observations A4.1

Numbering System: Each item of vegetation has its own unique number prefixed by a letter such that T1=Tree 1, G2=Group 2, H3=Hedge 3 and A4.1.1

W4=Woodland 4, S5=Shrub 5.

Age Categories: A4.1.2

A4.1.4

A4.1.7

Height:

Usually less than 10 years old. Young Semi-Mature

Significant future growth to be expected, both in height and crown spread (typically below 30% of life expectancy). Early-Mature

Full height almost attained. Significant growth may be expected in terms of crown spread (typically 30-60% of life expectancy). Mature Full height attained. Crown spread will increase but growth increments will be slight (typically 60% or more of life expectancy). A level of maturity whereby significant management may be required in order to keep the tree in a safe condition. Veteran

Over Mature As for veteran except management is not considered worthwhile.

Measured from ground level to the top of the crown.

A4.1.3 Species: Common names and Latin names are given.

Stem Diameter: Taken at 1.5m above ground level where possible. On multi-stemmed trees this measurement may be taken at ground level,

though usually an indication of the number of stems and average diameter is given, e.g. 3 x 30cm

A4.1.6 Crown Height: Measured from ground level to the height at which the main crown begins. Where the crown is unbalanced it is measured on the

side deemed to be most relevant. This is usually the side facing the area of anticipated development Tree Diagram:

This scaled drawing is computer generated based on measurements taken for stem diameter, crown height and spread, and overall height. It is designed to help the reader rapidly assess the data. It is not an accurate representation of the form of the

A4.1.8 Crown Spread: Measured N, E, S & W, taken from the centre of the stem and usually rounded up to the nearest metre.

Observations: If a tree's position is considered to be relevant it will be commented upon (e.g. overhanging a children's play area). Tree form

and pruning history are also recorded along with an account of any significant defects. Defects and descriptive terms are dealt with in more detail at the end of this section.

Recommendations: Usually based on any defects observed and intended to ensure that the tree is in an acceptable condition. A4.1.10

A4.1.11 **Priority Scale:** Depending upon the threat posed by the tree, and the likelihood of failure, recommendations should be carried out according to

the following priority scale:

Urgent Very High To be carried out within 1 month. High To be carried out within 3 months. To be carried out within 1 year Moderate To be carried out within 3 years.

A4.1.12 Inspection Frequency: An interval of 6 months, 1 year, 1.5 years or 3 years is allocated before the next inspection is due. Wherever practical,

consideration should be given to seasonal changes so that deciduous trees are not always surveyed in winter when they have no leaves, or in summer when leaves may obscure branches within the upper crown.

A4.1.13 Vigour: An indication of growth rate and the tree's ability to cope with stresses:

> High Having above average vigour. Having average vigour. Having below average vigour. Moderate Low

Very Low Tree is struggling to survive and may be dying.

A4.1.14 Physiological Condition:

> Good Healthy and with no symptoms of significant disease.

Disease present or vigour is impaired

Poor Significant disease present or vigour is extremely low.

Very Poor Tree is dying.

Structural Condition: A4.1.15

> Good Having no significant structural defects.

Fair Some defects observed though no high priority works are required. Significant defects found. Tree requires monitoring or remedial works Poor

Very Poor Major defects which will usually require significant remedial works or tree removal.

Amenity Value:

Very High Exceptional specimen, observable by a large number of people High Attractive specimen, observable by a significant number of people

Moderate One of the above factors is not applicable. Unattractive specimen or largely hidden from view.

The estimated number of years before the tree may require removal. Classified as (<10), (10-20), (20-40), or (40+). Life Expectancy: A4.1.17

A4.1.18 Retention Category: These are explained in detail in Appendix 1.

A4.2 **Evaluation of Defects**

A4.2.1 Cavities, wounds, deadwood etc are all evaluated as follows:

> Major Such that structural integrity is, or will become, compromised and the tree is, or will inevitably become, hazardous.

Significant A defect that may over time become a major defect, though not necessarily so. This will depend on the vigour of the tree and its ability to deal with decay etc.

Minor A defect that is not likely to compromise the tree's structural integrity.

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General Glossary

Adaptive growth	In tree biomechanics, the process whereby wood formation is influenced both in quantity and quality by the action of gravitational forces and mechanical stresses on the cambial zone.
Aerobic	Conditions in which oxygen is freely available, or to biomechanical processes that depend on the presence of oxygen.
Anaerobic	A condition marked by the absence of oxygen; Generally such areas are unsuitable for normal life and growth of plant tissues. These sites tend to be populated by bacteria capable of surviving low oxygen conditions often associated with Slime Flux.
Arboriculture	The culture and management of trees as groups and individuals primarily for amenity and other non-forestry purposes.
Arborist	A person possessing the technical competence through experience and related training to provide management of trees or
	other woody plants in a landscape setting. Generally involved with the development or management of trees for visual amenity or land management rather than the growth of trees for product or profit.
Barrier zone	A layer within an annual increment of wood which contains abnormal xylem cells, laid down by the cambium in response to wounding or other trauma.
Body language	In trees, the outward display of growth responses and or deformation in response to mechanical stress.
Bole	Or Trunk, the main stem of a tree below its first major branch.
Bracket	A type of fruiting body produced by various fungal species, plate like to hoof like in shape and often a one sided attachment to the wood or bark.
Branch bark ridge	A ridged area located at the union of a branch to a trunk or stem.
Branch Collar	Trunk tissue that forms around the base of a branch between the main stem and the branch, or between a main branch and a lateral branch. As a branch decreases in vigour or begins to die, the collar usually becomes more pronounced and completely encircles the branch.
Brown Rot	Form of decay where cellulose is degraded, while lignin is only modified.
Buttress Root	Roots that emerge from the base of the tree stem, normally large and well developed that rapidly reduce in diameter to create the Root Plate this offers structural support for the tree. Buttress roots divide rapidly forming the connection between the stem and the transport roots.
Cabling Bracing	Installing cables within the crown of a tree to prevent collapse.
Callus	Undifferentiated cells often formed at the edges of recent injuries. This tissue quickly becomes differentiated, forming cells of the type characteristic of that position on the tree (e.g. forming wood, bark, roots, etc.) see wound response tissue.
Cambium	A thin layer of actively growing and dividing cells, located between the xylem (sapwood) and bark of a plant; the part responsible for radial growth of a tree stem or branch.
Canopy	The topmost layer of twigs and foliage in a woodland, tree or group of trees.
Canker	A localised area of dead bark and cambium on a stem or branch, caused by fungal or bacterial organisms, characterised by woundwood development on the periphery. This may be annual or perennial.
Cavity	An open and exposed area of wood, where the bark is missing and internal wood has been decayed and dissolved.
Chlorotic	Also Chlorosis. A condition of the plant marked by yellowing of normally green foliage, often indicating nutrient deficiency or plant dysfunction.
Clinometer	Devices that measures vertical angles, and provides direct height measurements of objects by triangulation.
Co-dominant	Are forked branches or trunks of nearly the same size in diameter and lacking a normal branch union.
stems/trunk	
Compacted soils	Soils in which the air-space (oxygen space) has been reduced or eliminated, reducing water infiltration and percolation, reducing root presence and inhibiting new root development.
Compartmentalisati on	The physiological process that creates the chemical and mechanical boundaries that act to limit the spread of disease and decay organisms.
Compression Failure	Localized buckling of fibres and other longitudinal elements produced by compression of wood along the grain; compression failures sometimes develop in standing trees.
Compression Strength	The ability of a material or structure to resist failure when subjected to compressive loading; measurable in trees using special drilling devices
Compression Wood	Abnormal wood formed on the lower side of branches and curved stems, with physical properties different from normal wood.
Conservation Area	In Great Britain, designated areas of architectural or historical interest, in which there are special procedures for planning applications. Additionally tree works cannot generally be undertaken without prior notification (Currently 6 weeks) to the relevant local planning authority. See also Tree Preservation Orders.
Core Sample	A sample of wood extracted from a trunk or branch, using an increment borer tool. The resulting core can be analysed for characteristics of growth, wood strength, structure, decay, and for species identification.
Crotch	The union of two or more branches; the auxiliary zone between branches.
Crown	The upper canopy of a tree, including upper trunk, scaffold branches, secondary branches, stems and leaves.
Crown lifting /	Crown Lift The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance
raising	underneath for vehicles etc.
Crown reduction	The reduction of a tree's height or spread while preserving its natural shape.
Crown thinning	The removal of some of the density of a tree's crown, usually 5-25% allowing more light through its canopy and reducing wind resistance.
Deadwood (noun)	Deadwood is often present within the crown or on the stems of trees. It may be an indication of ill health, however, it may also indicate natural growth processes. If a target is present beneath the tree, deadwood may fall and cause injury or damage and should be removed, otherwise deadwood can remain intact for conservation purposes (insects, fungi, birds etc.).
Deadwood (verb)	The removal of dead branches from a tree's canopy, usually of a specified size (in diameter).
Decay	Progressive deterioration of organic tissues, usually caused by fungal or bacterial organisms, resulting in loss of cell structure, strength, and function. In wood, the loss of structural strength.
Decay Detection	The assessment of decay within a tree has been traditionally difficult, but recent advances have made it possible to achieve accurate representations of the internal section of a tree in both 2D and 3D, removing doubt over the condition of the tree and allowing accurate management decisions.
Decurrent	In trees a, system of branching in which the crown is borne on a number of major widely spreading limbs of similar size. In fungi relates to toadstools whose gills run down the stem and leaves and other plant organs, which extend down the stem.
Defect	In relation to tree hazards, any feature of a tree which detracts from the uniform distribution of mechanical stress, or which makes the tree mechanically unsuited to its environment.

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Defoliation	The losing of plants foliage.
Dieback	Progressive death of buds, twigs and branch tissues, on individual limbs resulting in Deadwood, or throughout the canopy,
	extreme cases can result in Stag Heading.
Dripline	A projected line on the ground that corresponds to the spread of branches in the canopy; the farthest spread of branches.
Epicormic shoots	Fast growing, weakly attached shoots/branches that often grow as a response to stress factors upon a tree or branch remova
Excurrent	In trees, a system of branching that a single leader remains dominant, through the control of lateral branches.
Failure	In connection with tree hazards, a partial or total fracture within the wood tissue or loss of cohesion between roots and soil. total failure affected parts will snap or tear away completely, Partial failure there is a crack or deformation, which results in a
	altered distribution of mechanical stress.
Feeder Roots	Fine fibrous Water and nutrient absorbing roots located in the outer root system.
Flush-Cut	In trees and shrubs, a pruning cut close to the parent stem, which removes the branch bark ridge.
Foliage	The live leaves or needles of the tree; the plant part primarily responsible for photosynthesis.
Formative pruning	The trimming of a tree to remove weaknesses and irregularities which may lead to problems. The formative pruning operatic is aimed at reducing the potential for future weaknesses or problems within the tree's crown.
Gall	An abnormal, disorganized growth of plant tissues, caused by parasitic or infectious organisms such as insects, fungi, bacteri. or viruses.
Girdling	In woody plants, any form of damage that destroys the bark and / or the Cambium all the way around the stem, branch or roc normally resulting in death of the damaged section.
Girdling Root	In woody plants, a root that grows across the buttress, or across other roots, eventually causing constriction of the radial growth.
Growth Increment	The incremental growth added as new annual ring develops each season over existing wood. This is seen as (growth) rings in cross-sections of wood.
Hazard beam	An upwardly curved branch in which strong internal stresses may occur without the compensatory formation of extra wood (longitudinal splitting may occur in some cases).
Heartwood	Inner non functioning tissues that provide structural support to trunk.
Heave	In relation to shrinkable clay soils, expansion due to rewetting of a volume of soil previously subjected to the removal or wat by plant / trees following felling or root severance. Also in relation to root growth, the lifting of pavements and other structu by radial expansion. Also in relation to tree stability, the lifting of one side of a wind rocked root plate.
Herbicide	A chemical compound that causes the death of a plant.
ncluded Bark	Bark that becomes embedded in a crotch between branch and trunk or between co-dominant stems, usually found in narrow
navament Barer	tight crotches, and causes a weak structure.
ncrement Borer Leader	A tool that cuts and extracts a narrow cylinder of wood from a tree for analysis of the wood tissue and growth increments.
-imb	The primary terminal shoot or trunk of a tree. A large lateral branch growing from the main trunk or from another larger branch.
ion Tailing	Often the result of poor pruning practices; the main leader or branches are largely devoid of side branches, growth is restrict
	to the end of branches and is likely to suffer damage through end loading.
Lopping	In trees, a general term that related to the removal of branches from a tree.
Monitoring	Due to the relative life span of trees in relation to our own, long-term monitoring provides a valuable insight to the health of trees, identifying decline and or stabilisation and or improvement.
Mulch	A material laid over the root system of a tree to help conserve moisture within the soil. Additionally it may help control the development of weeds close to the tree.
Mycelium	A mass of growing filaments (hyphae) formed by fungi.
Mycorrhizae	The symbiotic relationship between roots and certain beneficial fungi. Mycorrhizae are the combined root / fungal growth.
Natural Pruning	The shedding of a branch or twig that has died back naturally and has become decayed at or near its base.
Necrosis	The failure and subsequent death of a branch, leader or tree.
Negligence	A failure to take reasonable action to deal with a hazard to prevent damage to property or person.
Nutrient	Substances that are absorbed by living organisms for the maintenance of internal processes.
Occluding tissue	The general tern of wood, cambium and bark that develop around the site of a wound on a woody plant
Pathogen	A microorganism that causes diseases within another organism.
Phloem	The principle conductive tissue that the products of Photosynthesis are transported around the plant
Photosynthesis	The process were light energy is used to create energy (Carbohydrate) for use within the plant.
Pollard	A term for a pollarded tree.
Pollard head Pollarding	The swollen section of branch / stem that forms behind the pollarding cut. The complete or partial removal of the crown of a young tree so as to encourage the development of numerous branches eith for amenity or historically as fodder, repeated management is required cyclically to maintain the feature
Prune or Pruning	Selective removal of woody plant parts of any size, using saws, Loppers, Secateurs, or other pruning tools.
Reaction Wood	Wood with distinctive anatomical characteristics, formed in parts of leaning or crooked stems and in branches to provide additional strength / support. In hardwoods, tension wood usually forms. In conifers, compression wood is usually found.
Reaction Zone	A zone normally darker than surrounding wood that denoted the boundary often a defensive one between functional sapwo and dysfunctional or decaying wood.
Re-grading	The raising or lowering of a soil profile from its original grade.
Rejuvenation pruning	Where historically or environmentally important trees are to be retained, their life spans can be significantly extended throu the adoption of particular pruning regimes.
Rejuvenation root	Management of the root zone can have a significant positive effect upon the health of trees. Physical, mechanical and biolog
treatment Remedial pruning	approaches are available and can be prescribed in accordance within the constraints of individual sites. The removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tr crown.
Resistograph	Invasive decay detection technique whereby the resistance offered by the timber to a spinning probe is measured and plotte
Rib Ring Barking	In tree body language, a long narrow, axial protuberance which often over lays a crack. Artificial Girdling of the stem, to result in the death of a tree. May be used in habitat creation were the retention of dead
King Darking	standing troop is required
Rod Bracing /	standing trees is required. Traditionally, this has relied upon the Installation of steel rods or bolts through the stems or limbs, to reduce twisting or

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Root Barriers	Both Buildings and services can benefit from the installation of root barriers to protect a soil volume from the ingress of roots.
Root Collar	The basal area of the tree; transition zone from trunk to root. Also sometimes called trunk flare.
Root Plate	The primary support area for the tree; an area of the root system close to the base that structurally anchors the tree to the soil.
Root Rot	Either a general term for decay within the wood of the lower stem / buttress roots, or a disease in which the fine roots are killed.
Root System	The portion of the tree containing the root organs, including buttress roots, transport roots, and fine absorbing roots; all underground parts of the tree.
Root Zone	The area and volume of soil around the tree in which roots are expected. May extend to three or more times the branch spread of the tree, or several times the height of the tree.
Sail Area	That area or the tree subjected to wind load.
Sanitation	In plant disease control, the removal of material that could a source of infection by a pathogen. Removal of diseased plant parts, such as fallen leaves and twigs, and pruning of dead and diseased branches. Diseased parts should be burned or buried under soil or active compost.
Sapwood	 Xylem wood tissue, usually light in colour, representing the outer growth rings of the wood. Usually living, reactive wood tissue, in a healthy tree. See heartwood
Scaffold limbs /	The branches that from the main network framework of the crown of a tree.
scaffold Branches	
Senescent	A decline in growth and vigour due to age or stress factors.
Shrub	A woody plat that branches at or close to the ground level and so does not have a single stem.
Slime Flux	Relating to a toxic condition from the spreading of bacteria or their products from a source of infection; characterized by malodorous gases, or salt deposits upon the bark. If these products enter the sap stream, localised vessel necrosis can result, usually associated with anaerobic conditions.
Soft Rot	A kind of wood decay, were a fungi degrades cellulose within the cell wall, without causing overall degradation.
Soil Compaction	The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grow in compacted soil.
Soil Profile	The characteristics of a soil as regards to relative depth; the changes in soil texture and composition that occur with depth.
Soil Texture	The classification of the constituent particles of soil; includes sand, silt and clay particles. Directly related to soil porosity, permeability, and aeration.
Sonic Decay	Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate decay
Detection	and a tomography picture representing the inner stem is produced.
Stag Heading	In a tree, a state of dieback were dead branches protrude beyond the current living crown.
Stress	In plant physiology, conditions were one or more physiological functions Are not working within normal parameters.
Stump Grinding	The removal of a tree stump using a specialist grinding machine.
Subsidence Sucker	In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume. Same as sprout.
Suppressed	Trees which are dominated by surrounding vegetation and whose crown development is restricted from above.
Systemic	Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system.
Target	Any person or object within reach of a falling tree or part of a tree that may be injured or damaged.
Target Pruning	The pruning of a branch were the wound affects only branch material, often result in a target shaped wound.
Tension Wood	Reaction wood typically formed on the upper side of limbs or curved stems; characterized by lack of cell wall lignifications (higher ratios of cellulose to lignin).
Tight Union / Tight Crotch	Also, narrow crotch. A crotch with a narrow angle between branches, often having included bark.
Tomography	The comparison of sound or stress waves through the tree allows the creation of a 2D or 3D representation of the internal structure of a stem or branch section and highlights areas of damage. Virtually non-injurious.
Topography	The configuration of surface features, including the vertical and horizontal relationships of the ground and other features.
Topping	Cutting large limbs back severely, without regard to form or habit of the tree. Cuts are usually made between lateral branch nodes. This practice is extremely injurious to trees, and promotes decay and structural weakness within the crown.
Tree	A woody plant that typically has a single stem, at maturity has a height of a least 4 metres and a stem diameter at breast height of at least 75mm.
Tree Preservation Order	In Great Britain, an order made by the local planning authority, were consent must be gained before undertaking all but exempt works to a tree.
Trunk Flare	The basal area of the trunk that flares or widens, and merges with the main roots. See root collar
Veteran Tree	Veteran trees are often found in large parks or estates and commonly affected by extensive decay or have been subject to extensive works. These trees are retained for historical importance and often pose greater risk than normal, which is generally justified. They need careful management and often propping or bracing to support them, some require fencing to limit access.
Vigour	Active, healthy growth of plants: ability to respond to stress factors.
Visual Tree	An assessment of the mechanical condition of trees based upon their 'body language'. Trees are dynamic and respond to faults /
Assessment (VTA)	decay / environmental factors in various ways, these responses can be indicative of structural integrity.
Wetwood	An infection caused by bacteria living inside the plant tissues. The bacteria ferment the plant fluids, resulting in death of nearby cells, and often causing exudations of fluid from the bark, often referred to as a Slime Flux.
White Rot	A kind if wood decay were a fungi attacks the lignin within the wood matrix
Wind loading	Forces placed upon tree canopy, branches, trunk and roots of a tree under windy conditions.
Wind Throw	The failure of a tree due to wind loading. A deformed or unusual growth of twigs from adventitious buds, says of by insects, disease, or disback of twigs and buds.
Witches Broom Wood	A deformed or unusual growth of twigs from adventitious buds, caused by insects, disease, or dieback of twigs and buds. Secondary Xylem; the main structural support and water conducting tissue of trees and shrubs.
Wound Response	Also Occluding Tissue, Wound Wood or Callus. Differentiated wood tissue that grows around the margins of a wound or injury.
Tissue	
Wound Wood	Wood with atypical features, formed in the vicinity of a wound and a term to describe the occluding tissues around a wound
Xylem	Plant tissues with special function of translocation of water and dissolved nutrients.

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Appendix 3: Survey Methodology

- A2.1 Ground level visual surveys are carried out using the Visual Tree Assessment technique described by Mattheck and Broeler (1994) and endorsed by the Arboricultural Association (LANTRA Professional Tree Inspection course, 2007).
- A2.2 Structural condition is assessed by inspecting the stem and scaffold branches from all angles looking for weak branch junctions or symptoms of decay. Particular attention is paid to the stembase. Cavities are explored using a metal probe in order to assess the extent of any decay. If this is not possible further inspection is recommended in the form of a climbed inspection or using specialist decay detection equipment.
- A2.3 The physiological condition is assessed by inspecting the stem, branches and foliage for symptoms of disease. The overall vigour of the tree is also taken into account.
- A2.4 Where significant defects are observed, recommendations are made according to a scale of priority in order to reduce the likelihood of structural failure. The position of the tree and its potential targets are taken into account.
- A2.5 Measurements are obtained using a diameter tape, clinometer, distometer and loggers tape. Where this is not practical measurements are estimated.
- A2.6 Some trees are surveyed as groups, though this is usually avoided close to areas likely to be developed.
- A2.7 Finally, a Retention Category is allocated as described in Appendix 1.1.1.

Appendix 4: Author's Qualifications

Qualifications & Experience of Ivan Button N.C.H. (Arb), FDSc (Arb), BSc (Hons), P.G.C.E., M. Arbor. A.

Construction

Between 1983 and 1995 Ivan worked primarily within the construction industry and received training in a broad range of practical building skills and general construction principles. During this time he obtained a BSc (Hons) at Leeds University followed by a P.G.C.E at The University of Wales.

Arboriculture

He obtained a NCH (Arboriculture) at the University of Lincoln and became a member of the Arboricultural Association. He then worked for an Arboricultural Consultancy for one year before establishing a tree surgery and landscaping business in 1998. In 2005 Ivan commenced full time employment with a leading Arboricultural Association approved consultancy and soon adopted a senior role responsible for five consultants.

He obtained a FDSc in arboriculture at the University of Lancashire, which he passed with distinction and is now a Director and Principal Consultant of Crown Consultants Ltd. He is accredited as a LANTRA *Professional Tree Inspector*. A qualification produced in association with the Arboricultural Association and generally recognised as appropriate for all levels of tree inspection.

He is a member of the Consulting Arborist Society and is listed within their areas of professional expertise for QTRA and as an expert witness.

Ivan is a professional member of the Arboricultural Association and the International Society of Arboriculture.

He is a licensed Quantified Tree Risk Assessment user.

Ivan has undertaken professional expert witness training and has been registered as a Sweet and Maxwell Checked Expert Witness since 2008.

Throughout 2009 acted as the principal Tree Officer for Barnsley Metropolitan Borough Council.

Ivan has produced several hundred Arboricultural Reports for the purposes of Development, Safety, Management, Mortgage, Subsidence, Mitigation and Litigation.

Crown Ref: 09056 Site: Maitland Park, Maitland Park Road

Author: Ivan Button Date: 1st April 2014

Appendix 5: Further Information

Building Near Trees - General

National Joint Utilities Group publication # 10 (1995), Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees. Downloadable at www.njug.demon.co.uk/pdf/NJUG%20Publication10.pdf

NHBC Standards Chapter 4.2., Trees and Buildings.

Horticulture LINK project 212. (University of Cambridge, 2004), Controlling Water Use of Trees to Alleviate Subsidence Risk.

Tree Planting and aftercare

See www.trees.org.uk/leaflets.php# for downloadable leaflets on selecting a garden tree, planting, aftercare and veteran tree management.

British Standards

BS 5837: 2012. Trees in Relation to Design, Demolition and Construction – Recommendations.

Bs 3998: 2010. Recommendations for Tree Work.

BS 3936: 1992. Nursery Stock. Part 1: Specification for Trees and Shrubs.

BS 3936: 1992. Nursery Stock. Part 10: Specification for Groundcover Plants.

BS 4043: 1989. Transplanting Root-balled Trees.

BS 8004: 1986. Foundations.

BS 8103: 1995. Structural design of Low-Rise Buildings.

BS 8206: 1992. Lighting for Buildings.

BS 3882: 2007. Topsoil.

BS 4428: 1989. General Landscaping Operations (excluding hard surfaces).

Permission to do Works to Protected Trees / Tree Law

Forestry Commission (Edinburgh, 2003), Tree Felling – Getting Permission. Country Services Division - Forestry Commission. Downloadable at www.forestry.gov.uk/website/pdf.nsf/pdf/wgsfell.pdf/\$FILE/wgsfell.pdf

Transport and the Regions (Department of the Environment, 2000), Tree Preservation Orders, A Guide to the Law and Good Practice. Downloadable at www.communities.gov.uk/publications/planningandbuilding/tposguide

C. Mynors, The Law of Trees, Forests and Hedgerows (Sweet and Maxwell, London, 2002)

Communities and Local Government website with numerous downloadable documents, from:

http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/

Lighting Levels

P.J. Littlefair, B.R.E. 209: Site layout planning for daylight and sunlight A guide to good practice. B.R.E. Bookshop, London.

British Standards Institution. Code of practice for day lighting. British Standard BS 8206: Part 2 (1992).

Chartered Institution of Building Services Engineers. Applications manual: Window Design (London, 1987).

NBA Tectonics. A study of passive solar housing estate layout. ETSU Report S-1126. Harwell, Energy Technology Support Unit (1988).

I.P. Duncan; D. Hawkes, Passive solar design in non-domestic buildings. ETSU Report S-1110. Harwell, Energy Technology.

P. J. Littlefair, Measuring Daylight, BRE Information Paper 23/93 f3.50. (Advises on measuring daylight under the real sky or an artificial sky, allowing for the changing nature of sky light).

High Hedges

Communities and Local Government website with numerous downloadable documents, from: http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/

Tree Specific Websites

www.crowntrees.co.uk Crown Consultants site containing useful information

www.trees.org.uk Arboricultural Association

www.rfs.co.uk Royal Forestry Society of England, Wales and N. Ireland

www.treehelp.Info The Tree Advice Trust
www.woodland-trust.org.uk
The Woodland Trust
The Tree Council

Crown Ref: 09056 Site: Maitland Park, Maitland Park Road

Author: Ivan Button Date: 1st April 2014

Appendix 6: Tree Data Schedule and Site Plan(s)

The Tree Data Schedule and all plans accompanying this report follow this page. They are also provided as separate documents for ease of printing and referring between when viewing on a screen.

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (I N W		Notes Recommendations (Independent of any development proposals) Priority Recommendations (Independent of any development proposals) Physiological Condition Stru Freq (vrs) Con	
T1	Mature Beech Fagus sylvatica.	14	4.5	73	5 6 6	6	Form: Single stemmed and vertical with a well-formed crown. History: Occasional pruning wounds due to crown lifting (healing well). Defects: Significant cavity at 1m. Moderate Decay detection required. Good	Very High 40+ air
T2	Semi-Mature Lime Tilia sp.	12	2.5	27	4 4	4	Form: Single stemmed and vertical with a well-formed crown. History: No evidence of significant pruning. No significant defects. High No action required. Good	Moderate 40+ od B
Т3	Semi-Mature Purple Norway Maple Acer platanoides.	13	3	30	3 4 3	2	Form: Single stemmed and vertical with a slightly unbalanced crown. History: Occasional pruning wounds due to crown lifting (healing well). No significant defects. No action required. Good In/a 3	Moderate 40+ od B
T4	Semi-Mature Lime Tilia sp.	10	3	26	3 3	[25] 4	Form: Twin-stemmed at 2.5m with a balanced crown. History: No evidence of significant pruning. No significant defects. Other: Curved stem. High No action required. Good In/a 3	Low 40+
Т5	Semi-Mature Lime Tilia sp.	10	4	32	3 4 3	⁷²⁵	Form: Single stemmed and vertical with a well-formed crown. History: Occasional pruning wounds due to crown lifting (healing well). No significant defects. Moderate Good In/a 3	Moderate 40+ od B
Т6	Early-Mature Lime Tilia sp.	15	3	51	7 5 6	6	Form: Single stemmed and vertical with a well-formed crown. History: Occasional pruning wounds due to crown lifting (healing well). No significant defects. No action required. Good In/a 3	High 40+ od A
Т7	Semi-Mature Silver Maple Acer saccharinum.	14	2.5	42	7 4 6	7 -	Form: Twin-stemmed at 2.5m with a slightly unbalanced crown. History: No evidence of significant pruning. No significant defects. No significant defects. No action required. Good n/a 3	High 40+ od A

Reference G=Group H=Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		rown ead (m) N E		7	Notes	Recomme (Independent development	ent of any	Vigour Physiological Condition Structural	Amenity Value Life Expectancy (yrs) Retention
Т8	Semi-Mature Purple Norway Maple	10	3	32	5	3 4	[25 -	Form: History: Defects:	Twin-stemmed at 2.5m with a compact crown. Multiple pruning wounds due to crown lifting (healing well). No evidence of significant pruning.	No action	Freq (yrs)	Moderate Good	Moderate 40+
Т9	Acer platanoides. Semi-Mature Variegated Sycamore	10	3.5	35	5	5	[25]	Form: History: Defects:	Multi-stemmed at 3m with a well-formed crown. Multiple pruning wounds due to crown lifting (now healed). No significant defects.	n/a No action	3 required.	Good Moderate Good	Moderate 40+
T10	Acer pseudoplatanus. Early-Mature Sycamore	16	8	69	8	8 6	[25]	Form: History:	Twin-stemmed at 4m with a well-formed crown. Multiple pruning wounds due to crown lifting (now healed).	n/a No action	3 required.	Good Moderate Good	High
	Acer pseudoplatanus. Early-Mature					7	o [25]	Defects:	No evidence of significant pruning. Multi-stemmed at 4.5m with a well-formed crown.	n/a	3	Good	· _
T11	Lime Tilia sp. Semi-Mature	16	4	64	7	7 7 6	0	History: Defects: Other:	No evidence of significant pruning. No significant defects. Good specimen.	No action	required.	Good	40+ A
T12	Horse Chestnut Aesculus hippocastanum.	9	4	49	5	6 6	-	Form: History: Defects: Other:	Multi-stemmed at 2.5m with a balanced crown. Occasional pruning wounds due to crown lifting (now healed). Significant symptoms of Bleeding Canker (exudates, cracking bark all around stem). Low vigour.	Rem		Very Low Poor Poor	<10 U
T13	Early-Mature Horse Chestnut Aesculus hippocastanum.	11	2.5	55	5	6 6	25	Form: History: Defects:	Multi-stemmed at 2.5m with a well-formed crown. Significant symptoms of Bleeding Canker (exudates, sparse canopy). Major cavity at 2m.	Remo	ove.	Low Poor Very Poor	Low <10 U
T14	Early-Mature Lime Tilia sp.	18	3	52	6	6 5	T25 -	Form: History: Defects:	Multi-stemmed at 3m with a well-formed crown. Multiple pruning wounds due to crown lifting (healing well). No significant defects.	No action		Moderate Good Good	High 40+

nce up ge		(m)	t (m)	Diameter (cm)		rown ead (m)	Scaled Tree Diagram (m)			Recomme (Independe		Vigour	Amenity Value
Reference G=Group H=Hedge	Age & Species	Height (m)	Crown Ht (m)	neter	w	N E			Notes	development		Physiological Condition	Life Expectancy (yrs)
<u> </u>		ž	Ş	Diar		S	9			Priority	Inspect Freq (yrs)	Structural Condition	Retention Category
	Semi-Mature						[25	Form:	Single stemmed with a slight lean and a weeping habit.			Low	Low
T15	Silver Birch	9	2.5	22	2	4 2	-	History:	No evidence of significant pruning.	No action	required.	Fair	10-20
	Betula pendula.					1		Defects: Other:	No significant defects. Low vigour.			Good	<i>C</i>
	·				-		[25]			n/a	1.5	doou	
	Early-Mature					4		Form:	Multi-stemmed at 2.5m with a balanced crown.			Moderate	Low
T16	Purple Plum	8	2.5	40	4	4	-	History:	Occasional pruning wounds due to crown lifting (healing slowly).	No action	required.	Good	20-40
	Prunus cerasifera.					4		Defects:	No significant defects.			Fair	C
	Early-Mature						[25			n/a	3		
	Ash					7		Form:	Multi-stemmed at 3m with a well-formed crown.	No action	required	High	High
T17	Asii	16	2.5	47	8	7		History: Defects:	Occasional pruning wounds due to crown lifting (now healed). No significant defects.	No action	required.	Good	40+
	Fraxinus excelsior.					7		Other:	Minor bark wound at 1m.	n/a	3	Good	A
	Early-Mature						[25			142	, ,	High	High
T.0	Ash					7	-	Form:	Multi-stemmed at 3m with a well-formed crown.	No action	required.		
T18		16	3	40	7	7 7		History: Defects:	Occasional pruning wounds due to crown lifting (now healed). No significant defects.			Good	40+
	Fraxinus excelsior.					,	0			n/a	3	Good	A
	Early-Mature						[25	Form:	Single stemmed and vertical with a well-formed crown.			Moderate	High
T19	Lime	18	6	62	5	5 5		History:	Multiple pruning wounds due to crown lifting (now healed), reduced.	Remove de	eadwood.	Good	40+
9	Tilia en)	4		Defects: Other:	No significant defects. Minor deadwood to upper crown.				_
	Tilia sp.						0			Low	1.5	Good	A
	Early-Mature Swedish					4	[25	Form:	Multi-stemmed at 2.5m with an unbalanced crown.			Low	Low
T20	Whitebeam	8	2	41	4	4 4		History: Defects:	No evidence of significant pruning. Majority of bark has been stripped from ground level - 2m. Early decay	Moni	itor.	Fair	<10
	Sorbus intermedia.					3		Defects.	to stem centre.			Poor	C -
	Semi-Mature				-		[0]			Moderate	1.5		
						3		Form:	Single stemmed and vertical with a weeping habit.	N		Low	Low
T21	Silver Birch	10	2.5	25	3	3	-	History:	Occasional pruning wounds due to crown lifting (healing slowly).	No action	required.	Fair	10-20
	Betula pendula.					1		Defects:	No significant defects.	n/a		Good	C
							LO			n/a	3		

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		own ad (m) N	Scaled Tree Diagram (m)		Notes	Recomme (Independent	ent of any	Vigour Physiological	Amenity Value Life
Refe		Heig	Crowr	Diame	W	E S	9 0 9			Priority	Inspect Freq (yrs)	Condition Structural Condition	
T22	Semi-Mature Silver Birch Betula pendula.	6.5	4.5	24	1	1 1	[25]	Form: History: Defects: Other:	Single stemmed and vertical with a compact crown. Occasional pruning wounds due to crown lifting (cavities developing), reduced. Minor deadwood to upper crown. Poor specimen.	No action	required.	Low Poor Fair	Low <10
T23	Semi-Mature Purple Norway Maple Acer platanoides.	8	3	36	4	4 4	[25]	Form: History: Defects: Other:	Single stemmed with a slight lean and a compact crown. Significant historic damage to inderside of lower limbs. Significant deadwood throughout. Poor specimen.	No action	required.	Low Fair Fair	Low 10-20
T24	Semi-Mature Silver Birch Betula pendula.	7	2.5	19	2	2 2	[25]	Form: History: Defects:	Twin-stemmed at 2m with a balanced crown. No evidence of significant pruning. No significant defects.	No action		Low Fair Good	20-40
T25	Early-Mature Cherry Prunus sp.	13	3	49	7	7 7 6	[25]	Form: History: Defects: Other:	Multi-stemmed at 2.5m with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well). No significant defects. Mower damage to buttress roots.	No action		Moderate Good Good	Moderate 20-40
T26	Early-Mature Cherry Prunus sp.	8	2.5	47	6	6 6	[25]	Form: History: Defects:	Multi-stemmed at 2m with a well-formed crown. Occasional pruning wounds due to crown lifting (now healed). No significant defects.	No action		Moderate Good Good	Moderate 20-40
T27	Semi-Mature Hawthorn Crataegus monogyna.	5.5	2	39	3	3 4 3	[25]	Form: History: Defects: Other:	Multi-stemmed at 2.5m with a well-formed crown. No evidence of significant pruning. Significant bark wounds and early decay at 2m. Acceptable condition at present.	No action	required.	Moderate Good Fair	20-40
T28	Semi-Mature Hawthorn Crataegus monogyna.	3.5	2	26	2	3 3 2	25	Form: History: Defects:	Multi-stemmed at 2m with a compact crown (suppressed). Occasional pruning wounds due to crown lifting (healing slowly). No significant defects.	No action	required.	Low Fair Fair	20-40 C

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Spre	rown ead (m N		Scaled Tree Diagram (m)		Notes	Recomme (Independent	ent of any	Vigour Physiological	Amenity Value Life
Refe		Heig	Crowi	Diame	W	S	E	······································			Priority	Inspect Freq (yrs)	Condition Structural Condition	
T29	Semi-Mature Whitebeam	6	3	42	4	2	5 .		Form:	Single stemmed with a slight lean and an unbalanced crown (suppressed). Occasional pruning wounds due to crown lifting (now healed).	No action		Moderate Good	Low 40+
	Sorbus aria.					0	o		Defects:	No significant defects.	n/a	1.5	Fair	C +
Т30	Semi-Mature Ash Fraxinus excelsior.	12	4	41	5	4 4	5		Form: History: Defects:	Twin-stemmed at 4m with a well-formed crown. Multiple pruning wounds due to crown lifting (healing slowly). Major bark wound at 1m (70% of stem).	Moni	itor.	Moderate Fair Poor	Moderate <10
	Early-Mature						[0				Moderate	1	1 001	C -
T31	Lime	16	2.5	60	5	5			Form: History: Defects:	Multi-stemmed at 2.5m with a slightly unbalanced crown. Reduced. No significant defects.	No action	required.	Moderate Good	High 40+
	Tilia sp.						[o				n/a	3	Good	A
T32	Early-Mature Lime Tilia sp.	14	4	57	2	3	1 -		Form: History: Defects:	Multi-stemmed at 2m with a well-formed crown. Multiple pruning wounds due to crown lifting (healing slowly). Significant dead branch at 2.5m.	Remove de at 2.		High Good Good	High 40+
T ₃₃	Semi-Mature Lime Tilia sp.	15	3.5	40	4	4 3	1 -	All on	Form: History: Defects:	Single stemmed and vertical with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well). No significant defects.	No action		Moderate Good Good	High 40+
T34	Mature Ash Fraxinus excelsior.	21	3	89	9	9	25		Form: History: Defects: Other:	Twin-stemmed at 3m with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well). No significant defects. Excellent specimen.	No action		High Good Good	High 40+
T ₃₅	Semi-Mature Sycamore Acer pseudoplatanus.	13	4	39	4	6	5 .		Form: History: Defects:	Twin-stemmed at 2.5m with a well-formed crown. Multiple pruning wounds due to crown lifting (healing well). No significant defects.	No action		Moderate Good Good	Moderate 40+ B

nce up		(m)	t (m)	Diameter (cm)		own ad (m)	Scaled Tree Diagram (m)			Recomme (Independe		Vigour	Amenity Value
Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	neter	w	N E			Notes	development		Physiological Condition	Life Expectancy (yrs)
œ -		Ť	å	Diar		S	9 0 9			Priority	Inspect Freq (yrs)	Structural Condition	
T36	Early-Mature Sycamore	18	3	58	9	9 8	25	Form: History:	Twin-stemmed at 2.5m with a well-formed crown. Multiple pruning wounds due to crown lifting (healing well).	No action	required.	Moderate Good	High 40+
-	Acer pseudoplatanus.					7		Defects:	No significant defects.	n/a	3	Good	A
	Early-Mature Whitebeam					5	[25	Form:	Single stemmed and leaning with a well-formed crown.	No action		Moderate	Low
T37	Sorbus aria.	9	2	48	3	5	-	History: Defects:	Occasional pruning wounds due to crown lifting (healing well). No significant defects.			Good	20-40 C +
	Early-Mature						Lo [25]			n/a	3		
T38	Sycamore	18	3	57	8	8 8	21-12-13-13-13-13-13-13-13-13-13-13-13-13-13-	Form: History: Defects:	Twin-stemmed at 3m with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well).	No action	required.	Moderate Good	High 40+
	Acer pseudoplatanus.					7	0	Defects:	No significant defects.	n/a	3	Good	A
	Early-Mature						25	Form:	Multi-stemmed at 3m with a well-formed crown.			High	High
T39	Norway Maple	13	4	46	6	4 6	Annual Bridge	History: Defects: Other:	Occasional pruning wounds due to crown lifting (healing well). No significant defects. Good specimen.	No action	required.	Good	40+
	Acer platanoides.						0	o ancir		n/a	3	Good	A
T40	Early-Mature Lime	14	3	39	5	5 5	725	Form: History: Defects:	Single stemmed and vertical with a well-formed crown. No evidence of significant pruning. No significant defects.	No action	required.	High Good	High 40+
	Tilia sp.					4				n/a	3	Good	A
	Mature						[25					Moderate	Moderate
T41	Cherry	11	3	49	6	8 8		Form: History: Defects:	Single stemmed and vertical with a balanced crown. No evidence of significant pruning. No significant defects.	No action	required.	Fair	10-20
	Prunus sp.					4	0	Defects.	no significant defects.	n/a	3	Good	В
	Semi-Mature						[25	F	Mariti atomora data ama vitta a balance de accessor			Moderate	Low
T42	Rowan	10	3.5	30	4	3 4		Form: History: Defects:	Multi-stemmed at 2m with a balanced crown. No evidence of significant pruning. No significant defects.	No action	required.	Good	20-40
	Sorbus aucuparia.					4	o	Other:	Minor bark wounds (acceptable condition at present).	n/a	3	Good	C

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crowi Spread (N W		Scaled Tree Diagram (m)		Notes	Recomme (Independent development	ent of any	Vidour	Amenity Value Life Expectancy (yrs)
2 0 1		ž	Çro	Dian	S	- 5	9 9			Priority	Inspect Freq (yrs)	Structural Condition	Retention
T43	Early-Mature Lime	13	3	44	2	4	25	Form: History:	Single stemmed and vertical with a narrow, upright habit. Reduced.	No action	required.	Moderate Good	High 40+
	Tilia sp.				3	-		Defects:	No significant defects.	n/a	3	Good	. A
	Early-Mature					E.	25					Moderate	High
T44	Lime	13	3	45	4	4		Form: History: Defects:	Single stemmed and vertical with a narrow, upright habit. Reduced. No significant defects.	No action	required.	Good	40+
	Tilia sp.				2	l,	0			n/a	3	Good	A
	Early-Mature					Į.	25					Moderate	High
T45	Norway Maple	14	2.5	48	5	5	Just Diversi	Form: History:	Multi-stemmed at 3m with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well).	No action	required.	Good	40+
	Acer platanoides.				5			Defects:	No significant defects.	n/a	3	Good	A
	Semi-Mature					Ē	25			nqu)	Low	Low
T46	Lime	10	3	28	3	4		Form: History:	Single stemmed and vertical with a slightly unbalanced crown. No evidence of significant pruning.	No action	required.	Fair	20-40
	Tilia sp.				4		77.	Defects: Other:	No significant defects. Suppressed.	n/a		Fair	
	Semi-Mature						0 25			II/a	3		
	Lime				5	ŀ		Form:	Single stemmed and vertical with a well-formed crown.	No action	required.	Moderate	Moderate
T47		14	3	35	3	5		History: Defects:	Occasional pruning wounds due to crown lifting (healing well). Significant bark wound at base, acceptable condition at present.		·	Good	20-40
	Tilia sp.						0			n/a	3	Good	В
	Mature					E	25					Moderate	Moderate
T48	Cherry	15	4	61	6	6	11/1/1/1/	Form: History:	Multi-stemmed at 3m with a well-formed crown. Multiple pruning wounds due to crown lifting (healing well).	No action	required.	Fair	10-20
•	Prunus sp.				6	-		Defects:	No significant defects.			Fair	_
	Semi-Mature						0 1			n/a	3		
	Whitebeam				4	ŀ		Form:	Twin-stemmed at 2.5m with a well-formed crown.	Moni	itor	Moderate	Low
T49	willebeall	10	4	30	4	4		History: Defects:	Occasional pruning wounds due to crown lifting (now healed). Significant bark wound and early decay at base.	WIOIII		Good	20-40
	Sorbus aria.				3		0		<u> </u>	Moderate	1.5	Fair	C

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		own ad (m)	Scaled Tree Diagram (m)		Notes	Recomme (Independent	ent of any	Vigour Physiological	Amenity Value Life
Refe	rige at species	Heig	rown	iamet	w	``E	[mmminimmin]				Inspect	Condition	Expectancy (yrs)
	Semi-Mature		U	Δ		3	9 <u>6</u> 9			Priority	Freq (yrs)	Condition	
T50	Norway Maple	15	4	45	4	5 4	and the second	Form: History: Defects:	Multi-stemmed at 3m with a well-formed crown. No evidence of significant pruning. No significant defects.	No action	required.	High Good	Moderate 40+
	Acer platanoides.					5		Other:	Good specimen.	n/a	3	Good	B +
	Semi-Mature						[25]					Moderate	Low
T51	Lime	10	3	27	3	5 5		Form: History: Defects:	Single stemmed and leaning with an unbalanced crown (suppressed). No evidence of significant pruning. No significant defects.	No action	required.	Good	40+
	Tilia sp.					4	0	Defects.	No significant defects.	n/a	3	Fair	C
	Semi-Mature						[25	Form:	Single stemmed and vertical with a well-formed crown.			Moderate	Moderate
T52	Norway Maple	13	4	41	5	5 5		History: Defects:	No evidence of significant pruning. No significant defects.	No action	required.	Good	40+
	Acer platanoides.					5		Other:	Good specimen.	n/a	3	Good	B +
	Semi-Mature						[25			1174	<u> </u>	Low	Low
T53	Rowan	4.5	3	27	2	2 3	-	Form: History:	Multi-stemmed at 2m with a slightly unbalanced crown (suppressed). Occasional pruning wounds due to crown lifting (healing slowly).	Remove bran		Fair	10-20
	Sorbus aucuparia.					3		Defects:	Dead branch at 2m.			Fair	
	Early-Mature						Lo [25			Moderate	3		
_	Ash					6	-	Form:	Single stemmed and vertical with a well-formed crown.	No action	required.	High	High
T54		16	6	44	5	5 6		History: Defects:	Occasional pruning wounds due to crown lifting (now healed). No significant defects.			Good	40+
	Fraxinus excelsior.						0			n/a	3	Good	A
	Early-Mature					7	25	Form:	Twin-stemmed at 2m with a well-formed crown.			High	High
T55	Ash	18	4	45	4	7		History:	Occasional pruning wounds due to crown lifting (healing well). No significant defects.	No action	required.	Good	40+
	Fraxinus excelsior.					6	0	Defects.	No significant defects.	n/a	3	Good	A
	Semi-Mature						[25]					High	Moderate
T56	Ash	16	5	34	4	3 4		Form: History:	Single stemmed and vertical with a slightly unbalanced crown. Multiple pruning wounds due to crown lifting (now healed).	No action	required.	Good	40+
	Fraxinus excelsior.					3	0	Defects:	No evidence of significant pruning.	n/a	3	Good	В

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		rown ead (m N)	Scaled Tree Diagram (m)		Notes	Recomme (Independentedevelopment	ent of any	Vigour Physiological	Amenity Value Life
Refe	G ,	Heig	Crown	jame	w		E 9	0 9			Priority	Inspect	Condition Structural	
	Early-Mature						[25	0 9			Thomas	Freq (yrs)	Condition	Category
T57	Ash	15	3	46	5	6	6		Form: History:	Multi-stemmed at 3m with a slightly unbalanced crown. Multiple pruning wounds due to crown lifting (now healed).	No action	required.	Moderate Good	High 40+
	Fraxinus excelsior.					5			Defects:	No significant defects.	n/a	3	Good	A
	Semi-Mature						[25				1,42		High	Moderate
T58	Lime	13	2	43	3	2	3		Form: History:	Single stemmed and vertical with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well).	No action	required.	Good	40+
	Tilia sp.					4	-	$a_{ij} = U_{ij} e^{i k t}$	Defects:	No significant defects.		T _	Good	B +
	Semi-Mature						[25				n/a	3		
	Lime					4	ŀ		F	NA, lai atau and atau with a second at any with	No action	required	High	Moderate
T59	Line	12	2	48	4		1		Form: History:	Multi-stemmed at 2m with a compact crown. Reduced.	No action	required.	Good	40+
	Tilia sp.					3		42			n/a	3	Good	В
	Semi-Mature						[25				1,42		High	Moderate
TCo	Lime					4	-		Form:	Single stemmed and vertical with a slightly unbalanced crown.	No action	required.		
T6o		12	2	43	1	3	4		History:	Reduced.			Good	40+
	Tilia sp.						o				n/a	3	Good	В
	Semi-Mature						[25						Moderate	Low
T61	Cherry	12	2.5	30	4	4		s American .	Form: History:	Single stemmed and leaning with a slightly unbalanced crown. No evidence of significant pruning.	No action	required.	Good	40+
101	Prunus sp.		,		7	1			Defects:	No significant defects.			Fair	40.
							[o				n/a	3	I all	
	Semi-Mature					1			Form	Multi-stemmed at 1.5m with a balanced crown.			High	Low
T62	Elder	6	2	34	4		3		Form: History:	No evidence of significant pruning.	No action	required.	Good	40+
	Sambucus nigra.					4	-		Defects:	No significant defects.			Fair	C
	Mature						[0 [25				n/a	3		
						4	-		Form:	Single stemmed and vertical with a sparse crown.	A.A:	itor	Very Low	Low
T63	Cherry	7	4	53	6		4		History:	Heavily reduced. Significant deadwood throughout in decline.	Moni	ior.	Very Poor	<10
	Prunus sp.					4			Defects:	agameant deadwood tiii ougnout III decline.	Moderate	1	Poor	C -

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Spre	rown ead (m N		Scaled Tree Diagram (m)	Notes			endations ent of any t proposals)	Physiological	Amenity Value Life
Ref		Hei	Crow	Diame	W	/ E	9	9 0 9				Inspect Freq (yrs)	Condition Structural Condition	
	Semi-Mature						[25					ried()is)	Moderate	Low
T64	Silver Birch	6	2	23	3	3	3 -		Form: History: Defects:	Twin-stemmed at 2m with a weeping habit. Occasional pruning wounds due to crown lifting (healing slowly). No significant defects.	No action	required.	Good	40+
	Betula pendula.					2					n/a	3	Good	C
	Mature						[25	<u> </u>					Moderate	Low
T65	Cherry	10	4	36	3	4	1	, politica della core	Form: History: Defects:	Multi-stemmed at 2.5m with a slightly unbalanced crown. No evidence of significant pruning. No significant defects.	No action required.		Good	20-40
	Prunus sp.					1			Defects.	No significant defects.	n/a	3	Good	C +
	Early-Mature						[25				Tiya)	High	Hiah
TCC	Lime					2	-		Form:	Twin-stemmed at 8m with a well-formed crown.	No action	required.		High
T66		15	5	44	4	2	1 -		History: Defects:	Occasional pruning wounds due to crown lifting (healing well). No significant defects.			Good	40+
	Tilia sp.						o				n/a	3	Good	A
	Semi-Mature						[25						Low	Low
T67	Cherry 9	5	30	3	2	3		Form: History:	Twin-stemmed at 2.5m with a compact crown. Occasional pruning wounds due to crown lifting (healing slowly).	No action	required.	Fair	40+	
-						3	2		Defects:	No significant defects.			Good	
	Semi-Mature						o Γ25				n/a	3		
						4			Form:	Twin-stemmed at 2.5m with a well-formed crown.	No action required.		Moderate	Low
T68	Cherry	9	3	31	3	3	3 -		History: Defects:	Occasional pruning wounds due to crown lifting (healing well). No significant defects.			Good	40+
	Prunus sp.					3			Defects.	No significant defects.	n/a	3	Good	C
	Early-Mature						[25				.,,α	<u> </u>	High	Moderate
TC :	Cherry		_			3	-		Form:	Twin-stemmed at 2.5m with a well-formed crown.	No action	required.		
T69		10	3	41	4	5	5 - 1		History: Defects:	Occasional pruning wounds due to crown lifting (healing well). No significant defects.			Good	40+
	Prunus sp.						o				n/a	3	Good	В
	Early-Mature						[25						High	High
T70	Lime	14	3	45	4	4	. -		Form: History:	Single stemmed and vertical with a well-formed crown. Occasional pruning wounds due to crown lifting.	No action	required.	Good	40+
•	Tilia sp.				ľ	4	0		Defects:	No evidence of significant pruning.	n/a	3	Good	_

nce up ge		(m)	t (m)	Diameter (cm)		rown ead (m	1)	Scaled Tree Diagram (m)			Recomme (Independe		Vigour	Amenity Value		
Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	metei	w	N V E	E			Notes	development proposals)		Physiological Condition	Life Expectancy (yrs)		
œ -		Ť	S.	Diar		S	9	<u>0</u> 9			Priority	Inspect Freq (yrs)	Structural Condition			
T71	Semi-Mature Lime	6	2.5	17	3		3 -		Form: History: Defects:	Twin-stemmed at 2m with a compact crown. No evidence of significant pruning. No significant defects.	No action required.		High Good	Low 40+		
	Tilia sp.					3		SEC.			n/a	3	Good	C		
T72	Mature Cherry	14	2.5	51	4	6	[25		Form: History:	Single stemmed and vertical with a well-formed crown. Multiple pruning wounds due to crown lifting (now healed).	No action		Moderate Good	Moderate		
	Prunus sp.					4	0		Defects:	No evidence of significant pruning.	n/a	3	Good	В		
Tes	Semi-Mature Ash-leafed Maple	4-	_	0		5	[25 -		Form: Single stemmed and vertical with a well-formed crown.		No action	required.	High	Moderate		
T73	Acer negundo.	12	4	38	7	2	5 - 1	and Brown and American State of the Control of the	History: Defects:	Multiple pruning wounds due to crown lifting (healing well). No significant defects.	n/a	3	Good Good	40+ B		
	Semi-Mature						[25	A			1.174	, ,	Moderate	Low		
T74	Ash	17	2	38	6	3	5 -		Form: History: Defects:	tory: Occasional pruning wounds due to crown lifting (now healed).	No action required.		Good	10-20		
	Fraxinus excelsior.					'	o				n/a	3	Fair	C		
T ₇₅	Semi-Mature Ash-leafed Maple Acer negundo.	10	4	27	3	4	3 -		Form: History: Defects:	Single stemmed and vertical with a well-formed crown. Multiple pruning wounds due to crown lifting (healing well). No significant defects.	No action	required.	High Good Good	Low 40+		
	- C						o 				n/a	3	3000			
T76	Semi-Mature Ash	17	6	34	4	3	3 -		Form: History: Defects:	Twin-stemmed at 2m with a well-formed crown. Occasional pruning wounds due to crown lifting (now healed). No significant defects.	No action	required.	Moderate Good	Moderate 40+		
	Fraxinus excelsior.					T	lo				n/a	3	Good	В		
	Semi-Mature						[25						Moderate	Low		
T77	Ash-leafed Maple	eafed Maple 7 3 27	7 3 2		3 27	27	4		4 -		Form: History: Defects:	tory: Occasional pruning wounds due to crown lifting (healing well).	No action required.		Good	40+
	Acer negundo.					4	0	1			n/a	3	Good	C +		

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		rown ead (r N	1)	Scaled Tree Diagram (m)	Notes		Recommendations (Independent of any development proposals)		Vigour Physiological	Amenity Value Life
Refe		Heig	Crowi	Diame	W	S	E 5	0 9			Priority	Inspect Freq (yrs)	Condition Structural Condition	
	Semi-Mature						[25	5				Freq (yrs)	Moderate	LOW
T78	Ash-leafed Maple	7	3.5	24	4	4	4		Form: History: Defects:	Single stemmed and vertical with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well). No significant defects.	No action	required.	Good	40+
	Acer negundo.				4	lo				n/a	3	Good	C +	
	Semi-Mature						[25	5					High	Moderate
T79	Ash	15	3	29	4	4	4		Form: History: Defects:	Twin-stemmed at 2.5m with a narrow, upright habit. Occasional pruning wounds due to crown lifting (healing well). No significant defects.	No action required.		Good	40+
	Fraxinus excelsior.					4			Derects.	no significant defects.	n/a	3	Good	В
	Early-Mature						[25	5			,,,,		Moderate	High
T8o	Ash	17	4	41	3	4	5 -		Form: Twin-stemmed at 2m with a slightly unbalanced crown. History: Multiple pruning wounds due to crown lifting (now healed). Defects: No significant defects.	No action	required.	Good	40+	
	Fraxinus excelsior.					3			Detects:	NO SIGNIFICANT GETECTS.	n/a	3	Good	A -
	Mature						[25				11/4	, ,	Moderate	Moderate
T81	Cherry 15 3 Prunus sp.	15	3	53	5	5	5		Form: History:	Multi-stemmed at 2m with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well).	No action	required.	Good	40+
					5			Defects:	No significant defects.	n/a	3	Good	В	
	Mature						[25		Position:	Situated on third party land.	11/4	<u> </u>	High	High
T82	London Plane	24	6	106		8		THE TANK	Form:	orm: Twin-stemmed at 5m with a well-formed crown.	No action required.		Good	
102	Distance u bissocias	24	0	100	8	8	8		Defects:	No significant defects.				40+
	Platanus x hispanica.						[o		Other:	Limited inspection, dimensions estimated.	n/a	3	Good	A +
	Mature					4		July July 1	Position: Form:	Situated on third party land. Twin-stemmed at 5m with a well-formed crown.			Moderate	High
T83	London Plane	24	6	96	6	•	6		History:	No evidence of significant pruning.	No action	required.	Good	40+
	Platanus x hispanica.					6	0		Defects: Other:	No significant defects. Limited inspection, dimensions estimated.	n/a	3	Good	A +
	Mature						[25		Position:	Situated on third party land.			High	High
T84	London Plane	21	6	90	3	4	3	The second	Form: History:	Multi-stemmed at 4m with a well-formed crown. Reduced.	No action	required.	Good	40+
_	Platanus x hispanica.					6	0		Defects: Other:	No significant defects. Limited inspection, dimensions estimated.	n/a	3	Good	. A

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)		rown ead (m) N		Scaled Tree Diagram (m)	Recommen (Independen Notes development p		ent of any	Vigour Physiological	Amenity Value Life			
Refe G= H=		Heig	Crowi	Diame	W	S E	9	0 9			Priority	Inspect	Condition Structural Condition			
T85	Mature Lime 14 7 75 3		3	3	- -		Position: Form: History:	Situated on third party land. Single stemmed and vertical with a well-formed crown. Reduced.	Decay de requi		Moderate Good	High				
	Tilia sp.					3	o		Defects:	Significant decay at base.	Moderate	1	Fair	В		
T86	Semi-Mature Lime			46		4	[25 -		Position: Form:	Street tree. Twin-stemmed at 3m with a well-formed crown.	No action r	required.	Moderate Good	High		
100	Tilia sp.	15	3.5	40	1	3	0		History: Defects:	Occasional pruning wounds due to crown lifting (healing well). No significant defects.	n/a	3	Good	40+ A -		
	Semi-Mature					3	[25		Position:	Street tree.	No action	roquirod	Moderate	High		
T87	Tilia sp.	15	4	37	2	4	-		Form: History: Defects:	Single stemmed and vertical with a well-formed crown. Occasional pruning wounds due to crown lifting (healing well). No significant defects.	No action r	requirea.	Good	40+ A -		
	Semi-Mature						ο Γ25				n/a	3	dood			
Т88	Lime	14	3	41	2	4 5			Form: History: Defects:	Twin-stemmed at 6m with a slightly unbalanced crown. Multiple pruning wounds due to crown lifting (healing well). No significant defects.	No action r	required.	High Good	Moderate 40+		
	Tilia sp.					4	o		Defects.	no significant defects.	n/a	3	Good	B +		
T89	Early-Mature Lime	16	3	32	4	3 4	- -		Form: History:	Twin-stemmed at 2m with a slightly unbalanced crown. No evidence of significant pruning. No significant defects.	No action r	required.	High Good	High 40+		
	Tilia sp.					4	0	0	Defects:	NO Significant defects.	n/a	3	Good	A		
	Semi-Mature					4	[25		Form:	Single stemmed and vertical with a compact crown.	No. of		Moderate	Low		
Т90	Sycamore Acer pseudoplatanus.	9	3	27	4	4		Service Control	History:	Occasional pruning wounds due to crown lifting (healing slowly). No significant defects.	No action r	required.	Good	40+		
	Semi-Mature						[0 [25	1			n/a	3				
T01	Sycamore	8	2.5	2 5 21) E 31	21		3	-		Form: History:	Multi-stemmed at 2m with an unbalanced crown. No evidence of significant pruning.	No action require	required.	Moderate Good	Low
T91	Acer pseudoplatanus.		2.5	21	3	3	o Lo		Defects:	No significant defects.	n/a	3	Good	40+ C		

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Spi	Crowr read (N	m)	Scaled Tree Diagram (m)	Notes			ndations ent of any proposals)	Physiological	Amenity Value
Rei ∃ G ⊞		Hei	Crow	Diam	W	S	E	9 9			Priority	Inspect Freq (yrs)	Condition Structural Condition	
T92	Semi-Mature Sycamore	5	3	19	3	2	3	25	Form: History: Defects:	Twin-stemmed at 2.5m with a sparse crown (leaning and suppressed). Occasional pruning wounds due to crown lifting (healing slowly). No significant defects.	No action		Low Fair	Low 40+
	Acer pseudoplatanus.							0			n/a	3	Fair	
Т93	Semi-Mature Swedish Whitebeam Sorbus intermedia.	6	2.5	21	2	1	3	-	Form: History: Defects:	Single stemmed and leaning with an unbalanced crown (suppressed). Occasional pruning wounds due to crown lifting (now healed). No significant defects.	No action	required.	Moderate Good Fair	20-40
	Mature				-			0 25			n/a	3		
Т94	Silver Maple	20	6	61	4	2	5		Form: History: Defects:	Twin-stemmed at 3m with a well-formed crown. Reduced on one side. No significant defects.	No action	required.	Good	High 40+
	Acer saccharinum.						0			n/a	3	Good	A	
T95	Semi-Mature Silver Maple Acer saccharinum.	16	3	41	3	3	6	-	Form: History: Defects:	Single stemmed with a slight lean and an unbalanced crown (suppressed). No evidence of significant pruning. No significant defects.	No action required.		Low Fair	Low 40+
	Acer saccharinum.							0			n/a	3	Fair	
Т96	Mature Silver Maple Acer saccharinum.	24	4	80	8	10	8	25	Form: History: Defects:	Multi-stemmed at 4m with an unbalanced crown. No evidence of significant pruning. No significant defects.	No action	required.	High Good Good	High 40+
					-			0 25			n/a	3	3000	
T97	Early-Mature Apple	8	2.5	30	3	5	4	- - -	Form: History: Defects:	Multi-stemmed at 2.5m with an unbalanced crown. No evidence of significant pruning. No significant defects.	No action	required.	High Good	20-40
	Malus sp.					7		0			n/a	3	Good	C
Т98	Early-Mature Apple	11	3	40	3	5	4	- - -	Form: History: Defects:	Multi-stemmed at 2m with a narrow, upright habit. No evidence of significant pruning. No significant defects.	No action	required.	High Good	Low 40+
	Malus sp.					4		0	Delects:	ivo agnincant defects.	n/a	3	Good	C +

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (I N W	n) E	Scaled Tree Diagram (m)		Notes	Recomme (Independent development	ent of any	Physiological Condition Structural	
Т99	Mature Lime Tilia sp.	15	7	59	3 3	3 - 0		Form: History: Defects:	Single stemmed and vertical with a narrow, upright habit. Reduced. No significant defects.	No action		High Good Good	High 40+ A -
T100	Mature Lime Tilia sp.	15	7	70	3 3 3	3 - 0		Position: Form: History: Defects:	Raised planter. Single stemmed and vertical with a narrow, upright habit. Reduced. No significant defects.	No action	required.	Moderate Good Good	High 40+
T101	Mature Lime Tilia sp.	13	5	66	1 2 3	3 -		Position: Form: History: Defects:	Raised planter. Single stemmed and vertical with a narrow, upright habit. Reduced. No significant defects.	No action	required.	Moderate Good Good	High 40+
T102	Mature Lime Tilia sp.	15	7	42	3 3	3 - 0		Position: Form: History: Defects:	Raised planter. Single stemmed and vertical with a narrow, upright habit. Reduced. No significant defects.	No action	required.	Moderate Good Good	High 40+
T103	Mature Lime Tilia sp.	12	4	65	4 4	4 -		Position: Form: History: Defects:	Raised planter. Single stemmed and vertical with a narrow, upright habit. Reduced. No significant defects.	No action	required.	Moderate Good Good	Moderate 40+ B



