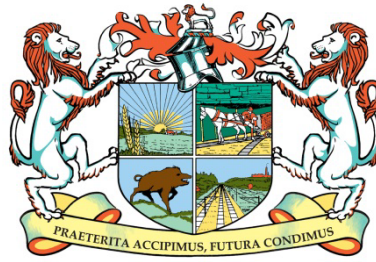


FERRYHILL TOWN COUNCIL



TREE MANAGEMENT

POLICY

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1. SUMMARY

- 1.1** Trees are a highly valued feature of Ferryhill; they make an enormous contribution to the character and beauty of our landscape and create / maintain environments rich in biodiversity. Ferryhill Town Council values its trees and recognises both the environmental, social and shared community benefits of having a healthy and sustainable tree population.
- 1.2** We also recognise that although trees are a positive feature, they can cause of a range of problems, from being a nuisance or inconvenience to potentially causing serious injury or even death. As a tree owner we have a direct responsibility for ensuring our trees do not pose a danger to the public or property and are managed appropriately. This policy sets out our approach to tree management.
- 1.3** We aim to inspect our tree stock at an appropriate frequency, and produce management plans and work programmes, in order to reduce future problems occurring.
- 1.4** We aim to provide high standards of tree management based on the latest arboricultural research and promote such standards with other parties, (e.g. private tree owners).
- 1.5** The policy is heavily based on Durham County Council's tree policy to ensure consistency in how trees are managed in the town.

2. POLICY SCOPE

- 2.1** This policy applies to all trees under our ownership / management, regardless of their location.
- 2.2** Although, we believe this policy to be as comprehensive as possible, we acknowledge it does not cover every situation. We reserve the right to exercise discretion in application of this policy when to do so would be in the best interests of the Council and its residents.

3. THE IMPORTANCE OF TREES IN THE URBAN AND RURAL LANDSCAPE

- 3.1** Trees are important features in the landscape. They help to create an attractive environment, making the Town a better place to live, work, and visit. They bring colour and contrast, screen unsightly structures, give privacy, soften the hard lines of buildings, streets and landscapes. Not only do trees have a visual quality, they also enhance the environment in less obvious ways:
 - they improve air quality by filtering airborne dust, smoke and fumes;
 - they absorb traffic noise in built-up areas and can help limit noise pollution;
 - they reduce temperature extremes by providing shelter in hot weather and insulation in cold weather; trees adjacent to buildings can reduce air conditioning and heating costs;
 - they act as a screen, increasing privacy in residential roads and gardens;
 - they convert carbon dioxide to oxygen, increasing the quality of the air locally and helping to reduce the 'greenhouse effect';
 - they mitigate the effects of climate change and flooding.

- they provide food and habitat for birds and other wildlife, thus supporting nature conservation value and biodiversity;
- research has shown that trees provide many psychological and health benefits and have been shown to reduce stress significantly.

4. LEGISLATION

There is a range of legislation which has been considered during the development of this policy, for example:

- 4.1** The Forestry Act (1967) requires certain permissions and licences to be granted where felling of trees is proposed within a woodland setting. Ferryhill Town Council will ensure that any proposed felling is fully compliant with the requirements of the Forestry Act.
- 4.2** Durham County Council, as the Local Planning Authority are able to create Tree Preservation Orders (TPOs), in respect of trees or woodland, which is considered to have a significant impact on the amenity of a local area.
- 4.3** The Wildlife & Countryside Act (1981, as amended CROW Act 2000) states that it is illegal to intentionally or recklessly damage or destroy the nest of a wild bird while that nest is in use or being built. For Schedule 1 (Wildlife and Countryside Act) bird species it is also an offence to disturb birds whilst they are building or using a nest.
- 4.4** Many bat species use holes, cracks and crevices in trees as roosts. Bats are a European Protected Species and are protected by the Conservation of Habitats and Species (Amendment) Regulations 2012 and the Wildlife & Countryside Act 1981 (as amended). Causing damage to or destroying a roost site, preventing access to a roost site and killing bats are all criminal offences which can lead to imprisonment or a fine. A roost cavity is considered to be a roost even if bats are not currently using it. Felling trees with bat roosts for health & safety reasons without first consulting Natural England may still be an offence under the Regulations.
- 4.5** The Hedgerow Regulations (1997) introduced powers allowing important rural hedgerows to be protected.
- 4.6** We have no authority to intervene in a dispute between neighbours regarding trees.

5. TREES ON FERRYHILL TOWN COUNCIL OWNED / MANAGED LAND

- 5.1** We have a responsibility to manage trees within our ownership / management to ensure they are in a safe condition and not causing an unreasonable danger or actionable nuisance. All enquiries regarding trees on Town Council land should be directed to us on 01740 652157 or enquiries@ferryhill.gov.uk.
- 5.2** Where development or maintenance works on council land have the potential to conflict with adjacent trees, we will liaise with arboricultural professionals in advance of any work commencing and will adhere to sound arboricultural practice and guidelines within the NJUG volume 4 and British Standards (BS5837 (2012)) where practicable.

6. INSPECTION OF TREES

- 6.1** We work to a risk based approach to tree management. Trees are inspected every three years by a qualified arboriculturist with any necessary work being prioritised to deal with potential hazards.
- 6.2** Additional inspections will be carried out by our own experienced workforce, or where appropriate by a qualified arboriculturist, where it is thought that a tree may be a hazard.

7. TREE MAINTENANCE

- 7.1** Tree maintenance is undertaken mostly on a proactive basis, although the Town Council will respond to reports received concerning specific trees. We have limited resources to manage our trees but we will ensure that they are managed efficiently to achieve the greatest benefit and minimise the problems we need to deal with.
- 7.2** Request for tree works of a nature that we consider would be detrimental to the trees, or that conflict with the principles of this Policy will be refused, either at the initial point of contact or following inspections. The customer will be advised of the reasons for the decision not to proceed with the request and, if required, be advised of the two-stage review procedure:
- Initial review will be to the Works Supervisor/Manager, who will determine if the right decision has been made in accordance with this Policy.
 - Should the customer fail to be satisfied following the initial review procedures, the decision may be referred to the Town Clerk for final review.
 - Complaints regarding the administration or management of the request will be referred to the Council's Corporate Complaints Procedure
- 7.3** Following inspection, a priority system will be utilised to ensure the correct use of resources and to target works where required most urgently. The following categories will be used to prioritise tree works:

Priority	Response
Priority 1: Urgent Public Safety	From within 24 hours to one week depending upon the risk
Priority 2: Non-urgent but essential work	up to 6 months depending upon risk and time of year
Priority 3: Desirable	as resources allow
Non-priority	No action proposed

7.4 Priority 1 - A tree could warrant immediate attention if, for example

- it has snapped or blown over;
- it is rocking (roots are damaged);
- it is uprooted but held up by another tree or building;
- a large branch has broken off or is hanging off the tree;
- it or its branch is blocking the road or footway / public right of way;
- it or its branch is blocking access to property;

- it has fallen on to a structure, such as a building or car.

(Note: If the tree is in a minor public access area, it could be considered to have non-reactive status and left as is)

7.5 Priority 2 - A tree may be a risk to people or property but does not require immediate attention if: for example

- • it is dead;
- • it is dying (few leaves in summer or dieback in the crown);
- • its bark is loose and falling off;
- • mushrooms or fungi are growing on or near the tree
- • old splits and cracks are in the trunk or large branches;
- • smaller branches are falling from the tree.

7.6 Trees will be made safe via pruning or felling and we would use the most cost effective approach.

8. PUBLICISING TREE FELLING / PRUNING

8.1 Minor works involving pruning or removing smaller trees will not be publicised.

8.2 Where large scale tree works are intended to be undertaken, we will consult with as wide a range of community representatives as practicable and where necessary undertake a public consultation / information exercise to ensure widespread understanding and awareness of the actions to be taken.

8.3 Where a competent officer has determined that the tree should be felled on public safety grounds there will be no public consultation and no right of objection.

9. DEALING WITH TREE CARE

9.1 While we recognise the need to conserve the present tree cover, we also recognise that removal of trees is sometimes justified for sound arboricultural reasons and that pruning works are sometimes necessary to ensure that trees are in a safe and healthy condition.

9.2 We receive many requests and complaints regarding trees. It is important that individual issues are dealt with consistently and that decisions are balanced against the positive contribution that trees make to the environment and enjoyment of the County by local residents and visitors.

9.3 In all cases, consideration will be given as to whether the tree in question is worthy of retention and protection. Particular care will be given to proposals affecting ancient or veteran trees.

9.4 In some cases, where trees are approaching the end of their natural life or are an inappropriate species in the wrong place we will look at progressive removal and replacement on a case by case basis, in consultation with the local community, as part of a phased replacement over a number of years.

9.5 To ensure that requests for works to trees are dealt with efficiently, consistently and fairly, our policy in relation to the more common types of request is outlined below.

9.6 Obstructing / Overhanging Tree Branches

- 1 Tree branches can cause obstructions to roads, footways, public rights of ways, signs, streetlights and open spaces. Appropriate pruning to eliminate hazards caused by obstructive branches will normally be acceptable, providing efforts are made to retain the shape of the tree.
- 2 We will attempt to undertake work to trees in council ownership / management to maintain a minimum 5 metres clearance over roads, 2.4 metres over footpaths / public rights of way and 3 metres over railway paths.
- 3 We will not prune trees that overhang neighbouring properties unless the trees are dangerous or causing an actionable nuisance
- 4 Adjacent Landowners do have a common law right to prune back tree branches to their boundary, providing that the tree in question is not protected by a Tree Preservation Order (TPO) or situated

9.7 Shading and Loss of Light

- 1 Trees are often perceived to block light to nearby properties. However, pruning or removal of trees will often have a negligible impact on the amount of light reaching a house or garden. Therefore, tree works to improve light levels will not normally be considered. However, we will consider acting (pruning or felling) in exceptional circumstances.
- 2 Where elderly, infirm or disabled persons who spend a significant amount of time within their home are affected there will be flexibility to look at some intervention. Where it can be established that the presence of trees is detrimental to the health of such residents, further consideration will be given to the management approach to trees. This consideration will also take into account the quality and importance of the tree in question, as well as the benefits to the wider community.
- 3 If natural light is being blocked by the growth of a high hedge, then action may be taken to reduce the height of the hedge.

9.8 Loss of View

- 1 Trees will only be pruned or removed to restore views when necessary to retain important public viewpoints or there is potential to bring about significant public benefit and/or enhance the local landscape or townscape. Historical records may be used to determine the level of management required. Pruning of trees for highway sight-line requirements will be dealt with on a case by case basis.

9.9 Trees affecting reception (Television / Satellite / Solar Panels)

- 1 Pruning in the short term may help improve television reception. However in the long term the flush of quick, extra growth associated with pruning can

exacerbate the problem. In most cases the problem can be resolved by relocating the aerial or satellite dish, or alternatively using a Booster. Residents are advised to contact their satellite or TV provider for specialist advice. Removal or pruning of trees to enable a clear television reception would only be considered in exceptional circumstances.

- 2 Similarly we will not prune or fell a tree in our ownership / management to improve natural light to a solar panel. Whilst we recognise the need for renewable energy sources, trees are also important in tackling climate change.

9.10 Overhead Cables / Telephone Wires

- 1 Utility companies have certain legal rights to carry out works to public or privately owned trees to address health and safety problems and to maintain a clearance between trees and their apparatus to ensure continuity of supply. This may sometimes involve the loss of trees. Where works to trees are necessary as a result of proximity or conflict, we will encourage utility operators to adopt the most appropriate long term solution, giving consideration to tree health, local tree cover and visual amenity.
- 2 We will not normally prune or fell a tree in our ownership / management to prevent or reduce interference with telephone wires. We would recommend contacting the telecom service provider in such circumstances for them to arrange appropriate pruning works.
- 3 Problems caused by branches interfering with privately owned telephone wires can usually be eliminated through appropriate pruning and tree removal would not usually be considered.

9.11 General / Minor Nuisances

- 1 We will not fell or prune trees solely to alleviate problems caused by natural and/or seasonal phenomena, which are largely outside of our control. There are a variety of potential nuisances associated with trees, most of which are minor or seasonal and considered to be normal and acceptable consequences of living near trees. Examples of such problems are:
 - falling leaves, twigs, sap, blossom, fruit, nuts, bird and insect droppings;
 - insects associated with trees (spiders, wasps, flies etc);
 - reduction or increase of moisture to gardens;
 - suckers or germinating seedlings in gardens;
 - leaves falling into gutters, drains or onto flat roofs;
 - the build-up of algae on fences, paths or other structures.
- 2 Clearing of leaves from gutters and pathways and weeding of set seeds are considered to be normal routine seasonal maintenance which property owners are expected to carry out.
- 3 Falling leaves, sap, blossom, fruit, nuts, bird and insect droppings are not readily controllable by pruning and cleaning of affected surfaces can be considered to be routine maintenance. Pruning will not normally be considered solely as a way of alleviating problems with these issues alone.

- 4 We would not normally prune or fell a tree under our ownership / management that bears poisonous fruit / foliage (such as laburnum or yew). However, where it is known that unsupervised young children are likely to be exposed to berries or foliage that will make them ill if eaten, we will investigate on a case by case basis and take action, where appropriate.

9.12 Trees considered too big / too tall

- 1 We will not prune or fell a tree under council ownership / management because it is considered to be 'too big' or 'too tall' for its surroundings. The height of a tree does not in itself make it dangerous. In assessing risks posed by trees the council will have regard to their height and relationship with buildings, but in many cases the most important factors will be their health and condition. Reducing the height of a tree by a substantial amount is rarely practical as it will generally introduce decay into the canopy and make it less stable, increasing rather than reducing risks in the longer term (see 'Crown reduction', 'Topping' and 'Pollarding' in 20.3 below).

9.13 Personal Medical Complaint

- 1 We will normally not prune or fell a tree under our ownership / management where a request has been made to do so because of a personal medical complaint. However, where it can be established that the presence of a tree is causing a detriment to the health of residents further consideration will be given to the management approach of trees.

10. DAMAGE AND TREE ROOTS

10.1 Many tree conflicts arise on account of the presence of tree roots and the perception that they are causing damage. Where damage is alleged, each complaint will be investigated on an individual basis. The following guidance will be used in assessing levels of nuisance and identifying appropriate action.

10.2 Root invasion in gardens

- 1 Tree roots in gardens are a natural occurrence and root presence is unlikely to be affected by tree pruning or removal. Landowners do have a common law right to prune back tree roots to their boundary, providing that the tree in question is not protected by a Tree Preservation Order (TPO) or situated within a Conservation Area.
- 2 Most species of deciduous tree will re-sprout from the stump when cut down. Many species will produce a new growth shoot from a root if it becomes exposed to sunlight through ground erosion. Some species readily produce shoots from their buried roots as a way to regenerate and this is often stimulated by stresses, such as heavy pruning or felling. Numerous tree species (including Cherry and Poplar) are therefore likely to produce vigorous root suckers as a response to being felled. Poisoning a stump to prevent such suckering is not always successful since application of herbicide onto a stump face often only affects the stump and the upper roots.

- 3 Tree felling or branch pruning in response to root invasion in gardens would not normally be appropriate, as such works are likely to worsen existing problems. The pure encroachment of roots into adjoining land is not considered to amount to actionable nuisance.

10.3 Damage to walls and fences

If a tree on Town Council owned land is found to be causing damage to a neighbouring property we will investigate and take action as appropriate. It is often possible to rebuild or repair garden walls and fences to take account of adjacent trees. This can be achieved in a number of ways (for example installing a section of railing or bridging foundations around the base of a tree).

Therefore where trees are considered to be causing damage to walls or fences, we will normally only consider tree removal if the walls or fence is irreplaceable and of exceptional importance e.g. a retaining wall or of historical interest, or if there is a risk to public health in leaving the tree which cannot otherwise be mitigated.

10.4 Damage to paths

It is often possible to repair paths to take account of adjacent trees and tree roots. Where roots protrude they can be root pruned, or the path re-laid around the tree with flexible materials such as asphalt to provide a smooth surface. Where trees are considered to be causing damage to paths or footpaths, we will not normally consider tree removal except where there is a risk to public health which cannot otherwise be mitigated.

10.5 Damage to drains or water pipes

If a tree on County Council owned land is proven to be the cause of damage to an existing pipe or drain on a neighbouring property, we will consider pruning or removal of the tree where such action is reasonable and appropriate.

10.6 Trip Hazards

We will make safe an unacceptable trip hazard in a street, road or highway which is caused by a tree in our ownership / management.

10.7 Installation of drop kerbs

We will consider felling or pruning the roots of a tree under our ownership / management to allow the installation of a drop kerb. Each case will be considered on an individual basis.

10.8 Subsidence

- 1 Where an allegation is made that a tree in our ownership / management has caused, or is likely to cause damage to a third party structure through subsidence or other mechanisms, council officers will initially visit the site and make a general assessment of any damage or the foreseeability of damage occurring and take any reasonable action.

- 2 Where there is insufficient evidence of damage, or no clear and unambiguous correlation between the alleged damage and the effects of the tree(s), we would expect evidence in support of a request to remove a tree(s) or any claim for damages/repairs. This evidence will normally include:
 - Root analysis (presence, condition and identification)
 - Crack/level monitoring (showing greater than expected seasonal movement)
 - Details of the nature, extent and type of damage
 - Two trial pits (one remote one at point of damage)
 - Soil analysis (soil type, moisture level)
 - Depth of foundations
- 3 We will not normally subject our trees to regular heavy pruning to deal with suspected damage. Instead we will where feasible opt for removal and replacement planting with an alternative species that is less likely to cause future problems.

10.9 Heave

- 1 When a tree is removed in a clay sub-soil, the soil will rehydrate and swell in volume. The expansion may lift the foundations and cause cracking to the property. This is known as 'heave'. This is more likely to occur if the removed tree was mature and had a high water demand such as an oak tree.

11. ANTI-SOCIAL BEHAVIOUR

1 Trees

If a Town Council owned tree / woodland is the focus of a nuisance leading to anti-social behaviour we will take measures to reduce the problem. These measures will be determined on a site by site basis.

2 High Hedges

Once all avenues for resolving a hedge dispute have been tried and exhausted, a complaint about a neighbour's evergreen hedge can be made to Durham County Council's Planning Enforcement Team. A fee is payable for this service.

Their role is not to mediate or negotiate between the complainant and the hedge owner but to adjudicate on whether, in the words of the The Anti-social Behaviour Act 2003 (High Hedges), the hedge is adversely affecting the complainant's reasonable enjoyment of their property.

In doing so, they must take account of all relevant factors and must strike a balance between the competing interests of the complainant and hedge owner, as well as the interests of the wider community.

If we consider that the circumstances justify it, a formal notice will be issued to the hedge owner, which will set out what they must do to the hedge to remedy the problem, and when by. Failure to carry out the works required is an offence which could lead to a fine.

More details can be found on Durham County Council's website.
www.durham.gov.uk/article/3949/High-hedges

12. PROTECTED TREES

12.1 Tree Preservation Orders (TPO's)

- 1 A TPO is a legal document made, administered and enforced by the local planning authority, to protect specified trees and woodlands with public amenity value.
- 2 A TPO prevents cutting down, uprooting, topping, lopping, wilful damage or destruction of trees (including cutting roots) without our permission.
- 3 If you intend to carry out any works to protected trees, you must apply for consent from the County Council first.
- 4 If you do not own the tree you must obtain the owner's permission before carrying out the works.
- 8 If there are trees which you think should be protected or if you have seen work being carried out on a protected tree and want to know if the owner has permission, please contact Durham County Council.
- 9 You have a right to object to the making of a TPO or any refusal of consent to do works to the tree.

12.2 Penalties

Section 210(2) of the Town and Country Planning Act 1990 provides that anyone found guilty of offences relating to protected trees is liable, if convicted in the magistrates' court, to a fine of up to £20,000. In serious cases a person may be committed for trial in the Crown Court and, if convicted, is liable to an unlimited fine.

12.3 Rights to appeal

Any tree, group of trees or woodland may be protected. There are currently around 700 TPOs in County Durham and whilst many are on individual trees there are some groups of trees. You can find out if your tree is covered by a Tree Preservation Order by contacting one of our tree officers (see 'Further Information' section below).

When you are buying a property, the presence of a TPO should be revealed by the search of the local land charges register.

Durham County Council will make new TPOs where appropriate. In deciding whether or not to make an order we will take into account the amenity value of trees, their potential life expectancy, and the level of threat posed to them.

Durham County Council may at any time review an existing TPO to assess whether it is still appropriate to provide protection in circumstances which may be different to those when the Order was made. When it is considered necessary to make changes

we will either revoke the order, revoke the order and make a new order, or vary the order in some detail.

12.4 Further information

More details can be found on Durham County Council's website:

www.durham.gov.uk/treemanagement

or contact **Customer Services** on 03000 26 1000

or Email: treeofficers@durham.gov.uk

13. OTHER FACTORS CONSTRAINING WORK TO TREES

1 Birds

Under the Wildlife & Countryside Act 1981 (as amended CROW Act 2000) it is an offence to kill, injure or take wild birds, their young, their eggs or nests. For Schedule 1 birds (Wildlife & Countryside Act) it is an offence to disturb them whilst building or using a nest (see www.legislation.gov.uk for list of species). Tree work involving tree removal / reduction and hedge cutting operations should not normally be undertaken during the bird nesting season without a nest survey carried out by a competent person.

2 Bats

Bats are a European Protected Species and are protected by the Conservation of Habitats and Species (Amendment) Regulations 2012 (also known as the Habitat Regulations) and the Wildlife & Countryside Act 1981 (as amended). Causing damage to or destroying a roost site is a criminal offence which can lead to imprisonment or fine. Trees with suitable features such as holes, cracks, crevices and dense ivy should be risk assessed for their ability to support bats, prior to any works commencing on the tree. Trees, in FTC ownership, displaying signs of roosting bats will be referred to Durham County Council's Ecology Team before any work commences. Any trees supporting roosting bats will not be worked on until due process has been followed and a license acquired if necessary.

For further information and advice regarding trees and wildlife contact should be made with Durham County Council's Ecology Team on 03000 267 134 or email: ecology@durham.gov.uk

3 Planning Permission

Where planning permission has been granted, trees may be protected as a condition of that permission. Any works to such trees will require consent from the council and an application for a variation of the planning condition may be required.

4 Restrictive Covenants

Occasionally, restrictive covenants attached to the deeds for a property may restrict what work can be undertaken to trees.

14. REPLACEMENT TREE PLANTING

- 14.1** Where trees are removed from land owned / managed by us, replacement planting will be carried out if appropriate. Where a tree is protected by a Tree Preservation Order and it is dead or unsafe, a tree replacement will normally be required.
- 14.2** To help maintain a continuity of tree cover across within the Town we will undertake the planting of new trees on our land when suitable opportunities arise. Having too many of the same type of tree in a locality is a concern because of the increased risk of a devastating loss of one or more species of tree due to pests / diseases or other environmental factors. We will increase the resilience of our trees by planting species mixes rather than monocultures and avenues.

15. VANDALISM AND DAMAGE TO COUNCIL OWNED / MANAGED TREES

- 15.1** Vandalism is an increasing pressure on trees. Usually it is young newly planted trees that are damaged; however, mature trees are sometimes damaged too. There are various ways in which vandalism can be counteracted, but none of these is 100% effective against determined attack.
- 15.2** There are cases where trees we own / manage have been irrevocably damaged or removed without permission. This is criminal damage. We will investigate any reports of vandalism / damage to trees in our ownership / management and try to repair any damage where we can. Where possible, we will take legal action against the person(s) causing the damage.
- 15.3** We will remove rope swings from trees in our ownership / management where we are aware of them.
- 15.4** Structures / attachments such as signs, bird boxes, tree houses and other such items should not be attached to Council owned trees without permission.

16. BIOSECURITY / PEST AND EPIDEMIC MANAGEMENT

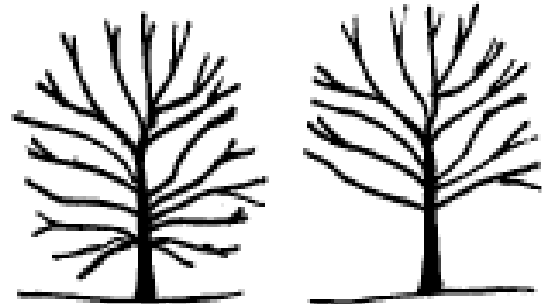
- 16.1** Biosecurity is a set of precautions that aim to prevent the spread of pests, pathogens or invasive species. The threat to trees from these has never been greater and as a large landowner we undertake to follow best practice and specific advice which is regularly published by the Forestry Commission. Attendances to high risk sites are subject to risk assessment and we employ measures to minimise pest or disease spread.

17. TREE PRUNING TECHNIQUES

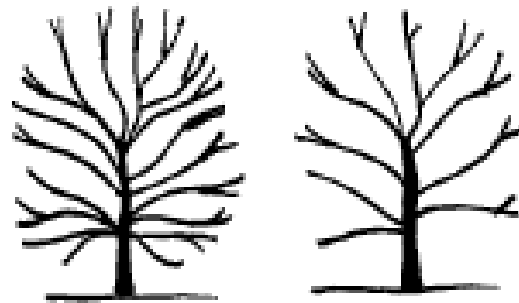
- 17.1** We will seek to ensure that all works to council owned trees, or those that the council is responsible for (including work carried out by third parties), are in accordance with arboricultural best practice and guided by recommendations within British Standards for tree works.
- 17.2** Particular pruning specifications may or may not be appropriate for trees of different ages, species, health and condition, or even between trees of the same species depending on their condition, age and environment.

17.3 Clear and acceptable pruning objectives are necessary in advance of approval of a pruning specification. The pruning objectives may require implementation of one or more of the following operations:

Crown lifting –The removal of the lowest branches of a tree so that the remaining lowest branches are at a specified height, usually 2.4m over a footpath and 5m over a road. This operation is undertaken for a number of reasons, such as to allow access under a tree; to clear branches from low structures; or to allow light under the canopy. *Image of an example of crown lifting is shown on the right.*

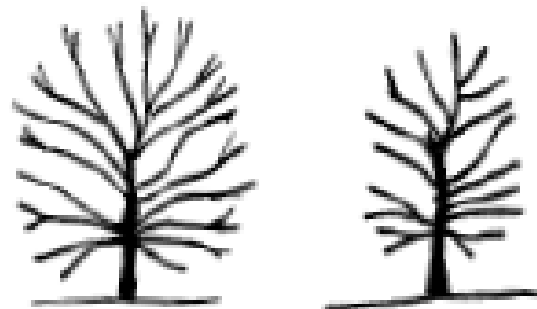


Crown thinning – The removal of a specified proportion of branch material from the interior of the crown without affecting the shape of the tree. This operation is usually undertaken to reduce crown density; form a healthy branch structure by removing dead; diseased, damaged, crossing and rubbing branches, and allow more light through the canopy. Many tree species evolve a canopy density for adaptive



reasons and crown-thinning can increase turbulence and cause drought stress and branch failures. For this reason, crown thinning is usually only acceptable when carried out as part of crown cleaning or balancing works. *Image of an example of crown thinning is shown on the right.*

Crown Reduction – Reducing the overall size of the crown area by a specified percentage by pruning back the leaders and branch terminals to lateral branches that are large enough to assume the terminal roles (at least one third the diameter of the cut stem). Crown reduction up to a maximum of 15- 20% may be acceptable to semi-mature trees providing cuts do not exceed 5-7cm and where shaping and restricting size and spread is essential. Crown reduction of mature or older trees is not normally acceptable as it can severely affect tree health and may lead to the death or decline of the tree and is generally only acceptable as management of last resort. *Image of an example of crown reduction is shown on the right.*

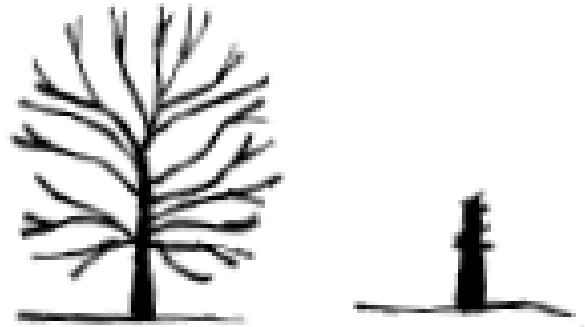


as it can severely affect tree health and may lead to the death or decline of the tree and is generally only acceptable as management of last resort. *Image of an example of crown reduction is shown on the right.*

Topping – *This entails cutting at a certain height to reduce the height of the tree. Topping is not acceptable as it severely affects the public amenity and health of the tree, sometimes leading to death. Topping can also lead to future problems due to a flush of weak re-growth that can represent a danger and also exacerbate existing*

problems. If height reduction is considered essential and unavoidable, crown reduction (see above) is preferred.

Pollarding – This severe operation entails the removal of the entire tree's branch structure back to the trunk. Pollarding is an ancient way of maintaining trees that is sometimes necessary, particularly on trees that have been pollarded previously. Only certain species will tolerate this degree of pruning, and new growth may be weak and prone to tearing off. This method of management is not therefore normally acceptable. Image of an example of pollarding is shown on the right.



Dead Wooding or Crown Clean – This operation is similar to a crown thin except that only dead, diseased, crossing and rubbing branches are removed to tidy up the appearance of the tree. No healthy, sound wood is removed. This operation is recommended to help maintain a healthy, safe tree.

Formative Pruning – The removal of problematic or potentially problematic branches, ensuring good tree development.

Stump Grinding – Stump grinding is the practice of removing a tree stump to below ground level by mechanical means. We will carry out stump grinding where necessary to enable new trees to be planted or to remove a significant hazard or for visual amenity. Where stump removal is not necessary tree stumps will be removed close to ground level so as not to leave a trip hazard.