TREE CONDITION SURVEY for SAFETY



18, THE COVERT, PETTS WOOD, ORPINGTON, BR6 oBU

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Instructions

Issued by Dave Berryman, 18, The Covert, Petts Wood, Orpington, BR6 oBU:

to undertake a survey of one mature oak, and one mature ash tree in the context of hazard evaluation and report upon their condition and level of risk, prioritising and advising safety work accordingly, and advise on their future management.

Scope & methodology

The inspection is carried out using a systematic and robust process [LANTRA, Professional Tree Inspection], evidence gathered through observation and where appropriate measurement, the findings and field notes presented in an appropriate format [below].

This strategy is consistent with Health and Safety Executive (HSE) guidance and, in event of an accident or claim owing to tree failure, provides supporting evidence that reasonable care has been taken:

- The tree stock that has the significant potential [by size, condition or location] to threaten people, thoroughfares (both public and private) and property was assessed.

- The survey was carried out on the basis of the VTA (visual tree assessment method – Mattheck & Breloer, 1994).

- The owners are fulfilling their duty of care (under the Occupiers Liability Act – 1957/1984) to ensure the safety and wellbeing of those visiting/ using the site.

- No tree is 100% safe but the risk posed by trees is statistically extremely low, "the duty is to take a reasonable and proportionate approach to tree safety... to manage trees [&] to keep risks within acceptable limits".

- The assessment is based on factors evident at the time of the survey and the interpretation of those factors by a suitably qualified inspector.

- The health and safety of trees should be checked on a basis commensurate with the level of risk (refer to Risk Assessment, survey outcome & recommendations, tree audit schedule and example matrix for risk zoning and tree inspection).

- Ground-based VTA; naked eye, and where required 10x40 binoculars, aided with: clinometer/ hypsometer, calibrated girth tape, 30m & 3m tape measures; for measurements and dimensions, nylon hammer; for audio-touch assessment of tree wood integrity. Any images captured using mobile phone. (Exceptionally, one tree, ash, was accessed using a rope and harness to inspect and assess main stems point of union with main trunk).

- Tree dimensions [as appropriate, stated] and age class are estimated; height and spread in metres, a girth class stated or measured [dbh; measured @1.5m].

- No samples of soil, plant material or pathogen were taken for analysis.

Risk assessment

- Targets (people and property); underneath or within falling distance of the tree(s) are assessed and quantified so that the surveyor can determine whether or not, and to what degree of rigour, further inspection is required.

- Impact potential (size); where applicable the tree or branch is considered in terms of both impact potential and, ...

.., - Probability of failure; an assessment of the likelihood that the tree or branch will fail, based on the observations, technical knowledge and the experience of the inspecting surveyor.

Recommendations aim to be proportional and balance risk against the benefits of retention, as such prescriptions vary for given risk features – for example conservation of medium diameter deadwood in areas with limited or infrequent access may be considered acceptable, while elsewhere given immediate priority for removal.

Where trees are present in the vicinity of people some degree of risk always remains, but removal of all tree stock would not be an appropriate or proportional response and is not expected under current industry guidelines (NTSG, 2011).

Background

Site and tree stock

The site soil is given as a free draining slightly acidic loam [http://www.landis.org.uk/soilscapes/], the trees stand on an evenly, slightly, sloped [down E-W] back garden lawn. It is reported that a significant number of trees in the neighbouring properties, S-SE & NE-E, have been removed within the past few years; large leylandii hedge, E, ash trees of similar size to No.18's, S.



Pests and Diseases

Of note beyond commonly occurring pests and diseases (recorded where observed) is the prevalence of Ash Dieback [Chalara] (*Hymenoscyphus fraxineus*). The disease is present on the specimen observed [thus has been noted for in-season, in-leaf, re-assessment].

The effect in some trees is crown dieback, epicormic growth in the lower canopy; that indicates retrenchment, and retained deadwood. The most susceptible trees can dramatically deteriorate in condition in as little as four years (FC, 2019). Affected trees will also have increased susceptibility to secondary pathogens such as honey fungus (*Armillaria* spp).

Survey outcome

See also attached tree audit schedule (field notes), below.

Overview

These trees form a dominant feature of the neighbourhood land-and-sky-scape; for their species, age and size, both are of good structure and vitality.

The oak has recently lost two larger limbs NE side at height, and this has imbalanced its canopy – accentuating a long SW orientated bough. One piece of deadwood, of size, noted for removal.

The ash tree has evidence of previous reduction-pruning [cavities on main frame work branches], and the only precursor of potential failure is the current small presence of dieback throughout and across the whole tree from bole, on trunk and in to the canopy along main limbs.

Recommendation

<mark>OAK</mark>

To mitigate the recent loss of larger limbs on one side of the oak's canopy, and assuage concerns of the 'opposite' long limb – it is suggested to reduce this long [est. 11m], SW orientated bough, @ 7m agl, back to natural pruning points 6-7m from the main trunk. In the same course of action remove the noted larger deadwood over summer house near this limb, and instruct the tree operative to remove other >5cm dia., >5ocm length deadwood – this remedial work to be actioned within 13 weeks.

<mark>ASH</mark>

The ash tree currently <mark>requires no remedial action</mark>. Owing to presence of dieback – <mark>monitor annually</mark> vitality and extent of dieback, when tree is in full leaf.

Within the planned evolution and development of the garden, owing to the presence of dieback, the ash tree will in time require increasing remedial works. Therefore, given that the garden plan and development caters for a number of trees to be planted, it can be regarded that the precocious, preemptive removal of the ash tree has justification [working on the ash tree post-development will impact significantly on the efficacy of the future tree works, and on the then established 'new' plantings].

Restrictions

Status should be confirmed with the local planning authority tree officer, where restrictions are known to apply, and before any tree works on such protected trees is undertaken.

18, The Covert (from local planning authority web pages as accessed, and viewed 17/11/2021) is not within a conservation area, and no restrictions are given – [<u>Aurora (statmap.co.uk)</u>], however the TPO [tree preservation order], map shows that the end of the property's back garden has restrictions (blanket TPO); this appears NOT to cover the two trees surveyed [imposed arrows indicate the oak and ash trees surveyed].



Arboricultural works

All works should be carried out by a suitably qualified and experienced arboricultural contractor with an appropriate level of insurance cover. Works should be carried out to the standard of BS 3998: 2010 (Tree work – recommendations) and to current arboricultural best practice.

https://www.trees.org.uk/ARB-Approved-Contractor-Directory

https://www.trees.org.uk/Help-Advice/Public/Choose-your-Tree-Surgeon

Relevant legislation, including but not limited to the Health and Safety at Work Act 1974, Town and Country Planning Act 1990 and the Highways Act 1980 must be respected.

Relevant permissions where required must be obtained before work commences.

Protected species and habitats

The impact of works on protected species and nesting birds must be considered with respect to the Wildlife and Countryside Act 1981, and the European Habitats Directive 1992/ Nesting birds directive. If protected species are discovered advice should be sought before work continues.

Line clearance

When arboricultural (aerial and ground) works are proposed within 10m (measured at ground level horizontally from below the nearest wire) of overhead power lines, a risk-based approach needs to be adopted. In practice this means that before undertaking any work within this distance to power lines, specialist advice and guidance from the network operator (Service provider) must be sought (HSE , 2020).

No service lines are present.

<u>Caveat</u> - use of information and limitations

This advice and all appendices are subject to caveat as follows:

- No liability is assumed by the author for any misuse, misinterpretation or misrepresentation of information contained herein.
- The statements in this report are based on professional experience and expert observation on the dates and at the times of the inspections, and not valid in adverse or unpredictable weather conditions or for any failure due to *force majeure* [accident or vandalism chemical, physical or fire].
- The author cannot accept any liability in connection with these factors, nor where prescribed work is not carried out in accordance with, and respecting current legislation and following best practice.
- The authority of this report ceases at any stated time limit within it, or if none stated after two years from the date of the survey or when site conditions change, or works unspecified in the report are carried out to the subject trees [whichever is sooner].
- Any advice, opinions or recommendations with in this report; a) should be read and relied upon only in the context of the document as a whole; b) do not, in any way, purport to include any manner of legal advice or opinion; c) are based upon the information made available to the author at the date of this document.
- No liability is accepted by the author for any use of this document, other than for the purposes for which it was originally prepared and provided. This report has been prepared for the sole use and benefit of the client. Any liability of the author shall not be extended to any third party.
- The report has been compiled using only the information made available to the author as at the above date of the survey/ inspection. No liability can be assumed by the author should site conditions or features alter after inspections.
- The author did not have, at the time of writing, any information as to the integrity of the site's main structures [above and below ground], annexes or the drainage system.

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Web tools

- Google Earth ©2020 Google LLC. All rights reserved
- <u>www.gridreferencefinder.com</u>
- <u>www.forestresearch.gov</u>

KEY TO FIELD NOTES

- <u>Directions/ Location/ Orientation</u> best estimation by cardinal points [N E S W]; maps/plans of sites not included
- <u>Weather</u>: Cloud cover; "<u>Sky</u> conditions are estimated in terms of how many eighths of the sky are covered in <u>cloud</u>, ranging from o oktas (completely clear sky) through to 8 oktas (completely <u>overcast</u>)." (<u>https://en.wikipedia.org/wiki/Okta</u>)
- <u>Tree Identification:</u> Tag refers to previous tree survey identification aluminium numbered discs attached to specific trees frequently found at 1.5m.
- <u>Metrics</u> where applicable (measured and/or estimated);
 -Height in metres

-Diameter class – stem measured at 1.5m above ground level in centimetres (used where required to differentiate similar specimens);

S Small 7-20cm

M Medium 21-50cm

L Large >50cm

-spread NESW in metres

• <u>Age Class</u> – for the species

Y	Young
EM	Early Mature
Μ	Mature
OM	Over Mature
\mathbf{V}	Veteran

• <u>Description</u> – vitality; judged for the species, at the time of year, gauged using foliage, maiden growth, reaction growth [wound occlusion], fructification and branch [twig] density.

POOR FAIR GOOD

- <u>Risk Rating & Actions</u> see Example Matrix for Risk Zoning and Tree Inspection.
- For quick reference, work urgency is colour coded in the species column and refers to the most immediate works required (further works/assessment may then be required);

-4 weeks	
13 weeks	
-1 year	
-2 years	
-Re-assessment	
-Before next inspection	

-No Action Required (NAR) [no colour]

• <u>Dead wood of size</u> is noted where judged to be greater than 5cm diameter and over 50cm [0.5m] in length.

EXAMPLE MATRIX FOR RISK ZONING AND TREE INSPECTION

<u>Table 1</u>	Table 1 Example matrix for risk zoning and tree inspection. NB final column (Frequency of inspection) has been added to, to reflect the annotation used in the survey schedule data sheets												
Copy of	Forbes-Laird, THREATS (Tree Hazard:	Risk Evaluation and Treatment S	ystem)										
RISK	LAND USE – examples	FREQUENCY of ACCESS	TREE ATTRIBUTES	LEVEL of INSPECTION	FREQUENCY of INSPECTION								
ZONE			[where known]										
1	Major road or busy junction where cars static under tree(s) School buildings or immediate environs and school main	Constant to very frequent access /occupancy including frequent access by unsupervised or	Maturing or mature trees	Arboricultural	Zıa Annual (consider basic inspection after severe weather conditions)								
	Access / busy playgrounds Orban centre Hospital buildings / main access	partially supervised children	Young trees or mature trees regularly managed as pollards	Basic	Zıb Quinquennial for young trees, triennial for mature trees managed as pollards								
2	Busy road / footway pavement or road junction / bus stop with peak times traffic where cars or pedestrians static under trees School grounds or less well-	Very frequent to frequent access / occupancy including regular access by unsupervised or partially supervised children or	Maturing or mature trees	Arboricultural	Z2a Biennial or annual as driven by tree condition (consider basic inspection after severe weather conditions)								
	used playgrounds Frequently used buildings including college buildings	and other impairments that elevate risk	Young trees or mature trees regularly managed as pollards	Basic	Z2b Quinquennial								
3	Peak times traffic (pedestrian or vehicular) including main access to	Some access throughout the day but busy during peak times, or sporadic use / access by	Maturing or mature trees, especially if large	Basic or refer for arboricultural inspection if required	Z3a Triennial or more frequent as driven by tree condition								
	colleges, or buildings with regular use	unsupervised or partially supervised children or by people with reduced mobility and other impairments that elevate risk	Young trees or mature trees regularly managed as pollards	Basic	Z3b Quinquennial								
4	Occasional traffic or use including most rural roads and regularly used woodland paths	Sporadic access only	Mature or large trees	Person with good working knowledge of trees, or refer for basic/ arboricultural inspection if required	Z4 Regular though casual observation								
5	Infrequently used rights of way including minor woodland paths	Access is rare	Mature or large trees	Landowner/ occupier should be familiar with tree stock, seeking advice where required	Z5 Occasional casual observation								
6	No formal public access including private land with no rights of way / permitted paths	Access is not foreseeable	No applicable	None likely to be required	Z6 None likely to be required								
				http://www.flac.uk.com/wp	-content/uploads/2010/07/THREATS-GN-June-2010.pdf								

FIELD NOTES																					
Common <mark>na</mark>	ame/	Oal	k						16-18m	/91cm/				_	12 th Novem	ber 2021					
	<u> </u>	_					<mark>Metr</mark>	<mark>ics/</mark>	NESW:	SW:7-6-7.5-11m				Date							
Genus spe	<mark>cies/</mark> (Que	ercus ro	bur				,					Tim	e: from	from 14.00						
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lag loca	ition]	Back garden, midway LHS to 14.30																			
Zoning/	10		rb				- h		POC	POOR FAIR GOOD							6				
Rick rating	Id		ID		2d		20		<mark>3a</mark>	3	D	4			5		0				
Inspection	Annua	1	Trienni	al	Biennial	Ouir	nquennial	Tri	ennial	Quina	ennial	Re	oular	· Occa	sional casual	observation	None likely to be				
frequency	ı vrlv	7	2V	TS	2Vrs	Qui	5vrs		2VTS	Quiliqu	5VIS	C	asual	Occu	sional casual	observation	required				
	-]]	′	וכ	10	-/10)]10)]-0)]10	observ	ation				requireu				
Use/ access	Major	r/ c	onstant	t	Busy	/ freq	uent		Peal	<mark>k times</mark>		Occasi	onal/	1	Infrequent/r	are	No formal public access				
	,					•						spora	adic		*		-				
ROOT PLAT	<mark>e</mark> zone	Ξ		ob	scured		Y / N		heave		Y / <mark>N</mark>										
accessible			<mark>Y</mark> / N	By	v what				Soil lev	el	Y / <mark>N</mark>	Roots]	Roots visibly damaged: Y/ <mark>N</mark>						
									altered	(+/-)	cm	expose	ed	Y / <mark>N</mark>							
DYSFUNCTI	NCTION/ What/id where How much/ big																				
PATHOGEN			Y / <mark>N</mark>																		
Other/ notes	/ remark	<s <="" td=""><td>observa</td><td>tio</td><td>ns</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></s>	observa	tio	ns																
				1						DI		X X / XT	D		EAD		600D				
BOLE/ BASE					OBCUDI		V / NI			RESOUND			P	OOR	FAIR		GOOD				
accessible			I / IN	D	UBSCURE	SD	Y / <mark>IN</mark>	W.	nat part	г		V / NI	n			dull solid					
				Ву	wnat			347	hat part	1	KOBED	: <mark>1</mark> / IN	U U		POOR SOIL:						
DYSFUNCTI	ON/			W	'hat/id			W.	here				Hot	w much / bi	σ						
PATHOGEN	0117		Y / <mark>N</mark>		nac, na				licic				110,	w macm, b	5						
cavity/ hollow split/ fissure reactive/ epicormic growth canker/tumour adventitious rooting flux-ooze/ lesion(s)																					
occlusion/historic wound occluded pronounced/ flared buttresses stilting/ towering bark plate wound bottling																					
Other/ notes/ remarks/ observations: prominent flare/ buttressing indicating tree forming stilts [bole underneath maybe 'vacuous']																					

Main trunk-	stem &				C	obscured	Y / <mark>N</mark>				Lean	Y / <mark>N</mark>				
immediate r	nain branche	es		<mark>Y</mark> / N	-	2 1 .			D			X 4 71 + 1				
TRUNK visi	ble				E	By what			Degre	es		Which w	yay			
DYSFUNCT	'ION/		What/ id				Wher	е				How much/ big				
PATHOGEN	1 J	Y / <mark>N</mark>														
•. /1 11	cavity/hollow_reactive/enjcormic growth_capker/tumour_fibre buckle_spap/tear out_cable(c)/brace(c)/cling(c)/prop(c)_wildlife (aPc)															
cavity/ holl	ow reactive	e/epico	ormic growt	h canker/tumour	110	bre buckle	snap/te	ar out c	cable(s)/bra	ace(s)/s	ling(s)/pr	op(s) w	ildlife (3Bs)		
occlusion	n/historic wo	ound o	ccluded a	cute unions/ codo	mina	ant stems	bark pl	ate wour	nd flu	ux-oo	oze/ les	sion(s) s	plit/ fissı	ıre		
Other/ note	s/ remarks/ o	observa	ations: <mark>large</mark>	<mark>e historic prunin</mark> g	<mark>g wo</mark>	ound, expo	osed hea	<mark>artwood</mark>	l <mark>, @ 7</mark> n	n NW	<mark>/</mark>					
CROWN							Dead wo	od of			Where	: <mark>most sig</mark>	gnificant	<mark>is one piec</mark>	<mark>e, NW @ 9-10m,</mark>	
framework of	of		<mark>Y</mark> / N			:	size (>5c	m dia.	Y / 1	N	<mark>orient</mark>	ated over	r summe	<mark>r house</mark>		
canopy visib	ole					:	>50cm lo	ong)								
	Na	iked ey	ye/ binocı	<mark>ilars</mark>												
DYSFUNCT	'ION/		What/ i	d		Where How much/ big										
PATHOGEN	1 7	Y / N												·		
cavity/ hollo occlusion/	cavity/ hollow split/ fissure reactive/ epicormic growth canker/tumour hazard beam snap/tear out congested wires/cables															
Other/ note	s/ remarks/ o	observa	ations: <mark>rece</mark> i	nt loss of two larg	ger l	limbs NE s	<mark>side of</mark> u	<mark>ipper ca</mark>	nopy l	has i	<mark>mbala</mark> :	nced and	altered	crown expo	<mark>osure.</mark>	
THREAT	Extreme-en	nergen	су	serious		significan	t	moder	'ate	S	slight		minima	ıl		
	Evacuate/ p	prevent	t access to	Isolate site act		Complete	works	Remed	liate	5	Schedu	le work	By or b	efore next in	spection	
ACTION	impact site	; emerg	gency	within 7days		within 4w	vks	within	13wks	s v	within	2yrs				
By when	call-out of o	contra	ctors									-				
WORK	MANAGE	IN	NVESTIGAT	'E REMOVE	PRU	JNE: lift/ t	hin/	FELL	R	REDU	J CE ma	ain limb	Install §	UPPORT	DEADWOOD removed	
required	Target area	a fu	ırther	obstruction	rem	ove branch	h(es)	to grou	nd S	SW sie	de @ 71	m, to				
	0							0	n	natura	ral pruning					
		points, 6-						s, 6-7 <u>m</u>	from							
							main trunk									

Common <mark>na</mark>	<mark>ume/</mark>	Ash					Motu	agl	16m/61	cm/	6				Data	12 th No	vember 2021
		Fraxinus excelsior					Metri	CS/	INESVV	4-5-4-5-	0.5111			Time:	from	14.00	
Genus <mark>spe</mark>	<mark>cies/</mark>						<mark>age cla</mark>	l <mark>ss/</mark>	Y	EM <mark>N</mark>	1 OM	V					
Back garden, RHS, 14m Tag location from house				vita)	<mark>lity</mark>	POO	POOR FAIR		<mark>OD</mark>			to	15.00				
Zoning/ Risk rating	1a		ıb		2a		2b	b 3		<mark>3a</mark> 3b		4		ŀ		;	6
Inspection	Annu	al	Trienni	al	Biennial	Qu	inquennial	Tri	iennial	Quinq	uennial	R	leg	gular	O	casional	None likely to be required
<mark>frequency</mark>	1 yr	ly	ЗУ	3yrs 2yrs			5yrs		<mark>3yrs</mark>		5yrs	obser	casua observatio		obs	casual servation	
Use/ access	Majo	or/ (constant	Busy/ fre			equent		Pea	<mark>k times</mark>		Occas spor	sio rac	onal/ dic	Infreque	ent/rare	No formal public access
ROOT PLAT	' <mark>E</mark>			ob	oscured		Y / <mark>N</mark>		heave		Y / <mark>N</mark>						-
ZONE access	ible		<mark>Y</mark> / N	By what					Soil lev altered	rel (+/-)	Y / <mark>N</mark> cm	Roots expos	s sec	d Y/	Root N dama	s visibly aged	Y / <mark>N</mark>
DYSFUNCTI	ON/		_	W	/hat/ id				where				How much/ big				
PATHOGEN			Y / <mark>N</mark>					_									
Other/ notes	/ remai	rks/	/ observa	itio	ns: <mark>tree bo</mark>	<mark>le s</mark> l	ightly raise	ed							_		
BOLE/ BASE			V / NI		OPSCUP		V / <mark>N</mark>		hat nart	R	esouni): Y / <mark>N</mark>		POO	R	FAIR	GOOD
accessible			I / IN	By	what	ΣD	I / <mark>I N</mark>	W.	nat part	1			I	GOO	D POC	R soft	solid
				27	y wildt			W	hat part		RODLL	·· <mark>·</mark> / ··		solic	d dept	h	
DYSFUNCTI	ON/		_	W	/hat/ id: <mark>di</mark>	e-ba	<mark>ck</mark>	W	/here: <mark>ep</mark>	oicormi	shoots			How r	much/ big	5:	
PATHOGEN			<mark>Y</mark> / N														
cavity/ hollow split/ fissure reactive/ epicormic growth canker/tumour adventitious rooting flux-ooze/ lesion(s) occlusion/historic wound occluded pronounced/ flared buttresses stilting/ towering bark plate wound bottling																	
Other/ notes well)	Other/ notes/ remarks/ observations: bole, particularly W side, exhibits prolific short epicormic shoots, and a large recent pruning wound (occluding well)																

Main trunk-stem &				V / N	obscured	Y / <mark>N</mark>			Lean	Y / <mark>N</mark>					
TRUNK visi	ble	1105			By what		Ι	Degrees		Which way					
DYSFUNCT	'ION/	V / N	What/ id:	some die-back vi c shoots	sible on	When	re: <mark>W side</mark>	big: <mark>most notably @ 4m</mark>							
cavity/ hollow reactive/epicormic growth canker/tumour fibre buckle snap/tear out cable(s)/brace(s)/sling(s)/prop(s) wildlife (3Bs) occlusion/historic wound occluded acute unions/ codominant stems bark plate wound flux-ooze/ lesion(s) split/ fissure															
Other/ note	Other/ notes/ remarks/ observations: @ 8m crotch of main stems (accessed to assess; cleared of debris and probed [solid]) two firmly attached dead														
CROWN framework o canopy visib	of ble	Naked ey	<mark>Y</mark> / N /e/ binocu	lars		Dead woo size (>5cr >5ocm lo		Y / <mark>N</mark>	Where: shrubbe	NB; <mark>one lar</mark> ş ery (2.5m lo	ge piece already fallen in to ng)				
DYSFUNCT PATHOGEN	'ION/	Y / N	What/ i	d: <mark>die-back</mark>		Where:	<mark>througho</mark>	<mark>ut cano</mark> j	<mark>py</mark>	How much/ big: currently small and incidental					
<mark>cavity/ holl</mark> occlusion/	cavity/ hollow split/ fissure reactive/ epicormic growth canker/tumour hazard beam snap/tear out congested wires/cables														
Other/ note	s/ remarks,	/ observa	tions: <mark>end</mark> s	s of many of the n	<mark>nain branc</mark> h	es show	cavities fi	rom prev	vious pru	ning.	ž				
THREAT	Extreme-e	emergen	су	serious	significa	nt	<mark>modera</mark>	<mark>ite</mark>	slight	N	Minimal				
ACTION By when	Evacuate/ impact sit call-out o	/ prevent te; emerg f contrac	access to gency ctors	Isolate site act within 7days	Complet within 4	te works wks	Remedia within 13	ate 3wks	Schedule within 23	e work B 7rs in	y or before next inspection: <mark>annually</mark> a full leaf				
WORK required	MANAGE ASSESS Target area vitality, and extent of dieback			REMOVE obstruction	PRUNE: lift/ remove bran	thin/ ch(es)	FELL to groun	nd dism	OUCE / nantle	Install SUPPOR	DEADWOOD removed				