Arboricultural Management Plan
at
Kingsley Farm
Kingsley Road
Harrogate
North Yorkshire

Client:
Peacock and Smith Ltd

Client Address:
Suite 9C
Josephs Well
Hanover Walk
Leeds
LS3 1AB

Client Contact:
0113 2431919

JCA Ref:
11042b/SR

JCA Limited

Arboricultural Consultants

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1. Introduction

1.1 Purpose of the Management Plan

1.1.1 An arboricultural management plan is required for a woodland group of vegetation and some lengths of hedgerow at **Kingsley Farm**. The group of trees is identified as **G37** within the original tree survey (undertaken by JCA) and it is covered by the Tree Protection Order (TPO) **TPO 5/2012 W1**. The hedgerows were identified as **G49** within the original tree survey and these do not appear to be subject to **TPO** status.

1.1.2 Development is proposed for this site and part of the woodland group (**G37**) is located within a proposed POS area (based on drawing no. **1080 106 'Proposed Plan with Survey Overlay'**). The hedgerows (**G49**) are located to the margins of the site and also as boundary treatments between lines of residential dwellings.

1.1.3 The purpose of this management plan is to outline management practices which will improve the quality of the woodland group and the hedgerows following development. Improvement of these features will principally comprise of promoting their amenity and visual/landscape benefits as well as specifically promoting the arboricultural values of the woodland group.

1.1.4 The woodland group is currently a mass of dense vegetation which comprises principally of non-native species, with no evidence of past management. This report will outline how this group will be improved, in view of its inclusion within a POS in the development proposals. If followed, the management plan will improve the amenity/ landscape benefits of the group, invoke a gradual change from a non-native species mix to a native mix, create a variation of canopy heights and secure the future of this feature. A variety of works are required for this group, including felling, thinning and replanting.

1.1.5 The hedgerows are currently overgrown and have not been formally managed for some years. If left, they will eventually loose their form, overgrowing into masses of vegetation and small trees. These hedgerows are considered to be important linear landscape features which will not only impart a maturity to a new development but will also help to provide important boundary/screening values, both within the proposed site and also to/from the surrounding landscape. The purpose of outlining management practices for these items is to improve the above values and to secure their long-term future. They require reducing in width (also known as 'siding-back') and in height, to create a consistent profile and a more formal appearance.

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1.2 Terms of Reference

1.2.1 I have been instructed by **Peacock and Smith Ltd** to visit the site and prepare my findings in a report and a management plan.

1.2.2 The requirement for a management plan governing this group has been advised by Paul Casey, the Tree Officer of the Local Planning Authority (LPA). This was agreed during a site meeting between representatives of JCA Ltd, Peacock and Smith Ltd and the LPA on the 16th of September 2014. The requirement to manage the retained hedgerows has not formally been requested by the LPA at the time of writing. However, the management of these features is prudent and has been included in the interests of amenity and good arboricultural practice.

1.2.3 This report has been compiled with reference to the supplied plan (see above – **Section 1.1.2**).

1.2.4 A plan has been prepared and is included at **Appendix 3.** The woodland group has been divided into compartments to best represent the form of the tree cover within the group and management operations will be listed by compartment, as shown on the plan.

1.3 Scope of the Management Plan

1.3.1 This management plan only concerns those trees situated within the POS and the hedgerows contained within, or immediately adjacent to the proposed area of development. The hedgerows are identified as **G49** within the original tree survey by JCA. The woodland group of trees is identified as **G37** by JCA and as **TPO 5/2012 W1** by the LPA.

1.3.2 The overall canopy extent ('drip-line') of the vegetation has been plotted on the topographical plan. However, precise stem locations for the trees within the woodland group have not been plotted by the land surveyors. Because of this, the location of the individual trees/compartments of trees within the woodland group has been estimated to the best ability of the surveyor. Furthermore, the overlaid layout of the proposals is an indicative layout which is to be submitted within an outline application. The required removals within this group to accommodate the proposals should therefore also be considered as indicative. The required removals will, however be confirmed within a subsequent reserved matters application. For the purposes of this report, the requirements of the proposals will override any reference to retained trees in this document and it must be accepted by all parties that some discrepancies may arise due to the above factors. The resolution of any such discrepancies will be negotiated between the owner of the trees, the LPA and the consulting arboriculturalist.

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1.3.3 The area of the original group of trees has been measured at 377.68m2. The proposed area of the POS increases this to 407.55m2. Considering that the proposed layout is subject to change, there is a risk that the area for the POS could be reduced within future manifestations of the layout. In order to prevent this, it is proposed that a minimum area of 400m2 is set aside for the POS, increasing its' existing size and the scope for increasing tree numbers through new planting. It is envisaged that this minimum area will be incorporated into relevant planning conditions as appropriate.

1.3.4 All tree works and replanting operations should be confirmed on site by a qualified and appointed arboriculturalist. During thinning works, the arboriculturalist should mark which stems within the block are to be removed and he/she should also mark on site the location for the new planting.

1.3.5 Problems may arise which were unforeseeable at the time of writing this plan. In which case the advice of an arboricultural consultant should be sought. Adherence to this plan alone, without further inspections and appropriate amendments, is not recommended. It is advisable to have trees surveyed on a regular basis. It is assumed that the owner arranges for biennial inspections in addition to the works recommended in this report.

1.4 Aims of the Management Plan

1.4.1 This management plan aims to schedule all the recommend arboricultural works required in the interests of sound arboricultural management. The works have been detailed over a 5 year period.

1.4.2 Recommendations are given with regard to tree works operations including felling, thinning, pruning and replanting as necessary.

1.4.3 Consideration is given to both risk and cost so that finances may be budgeted over 5 year period.

1.4.4 The management plan aims to maintain long term tree cover in a safe and healthy condition. Thereby minimising the risk to people and property and reducing the liability of the owner.

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1.4.5 The overriding aims of the management plan are as follows:

1.4.6 **1:** To promote the long term development of a high quality POS area which is of high amenity/landscape value and which is accessible by the public. Additionally, to promote the POS as an amenity space of woodland character.

1.4.7 **2:** To promote the arboricultural values of the POS area by optimizing removals to specimens of poorer health/structure and/or of non-native species; and by ensuring that all new/replacement planting comprises of native species. Additionally to manage the health and safety risks posed by the group and to ensure that the interests of health and safety are a priority and that supersede all other aims outlined in this document.

1.4.8 **3:** To ensure that some degree of continual tree cover is maintained throughout the management process and that, by the end of the process, the POS is in such a state whereby the maintenance of continual tree cover would be easily achieved for the long-term, beyond the length of time covered by this report.

1.4.9 **4:** To ensure that some degree of understory vegetation is maintained throughout, thus creating different canopy heights within the POS.

1.4.10 **5:** To ensure that some degree of open space is also present within the POS and also to maintain 'walkable' canopy heights within the interior of the group, to promote the use and access of the group by members of the public, in accordance with **Aim no1**.

1.4.11 **6:** To bring the retained hedgerows back into a state of good management, creating amenable landscape features which form effective boundary treatments between proposed dwellings and also in the wider landscape context.

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2. The Management Plan

2.1 The proposed arboricultural works are detailed below on a year by year basis. All recommendations should be read in conjunction with the associated Site Plan/Proposals drawing, included at **Appendix 5.**

2.1 Initial works (to facilitate development)

Block Ref./Hedgerow	**Recommended Action**	**Reason**
Block D	Partial removal	To facilitate development proposals.
Block E	Removal	To facilitate development proposals.
Block F	Removal.	Arboricultural reasons and to facilitate development proposals (dead trees).
Block G	Partial removal.	To facilitate development proposals.
Block B	Removal of the Sycamores within the group.	To facilitate development proposals.
Individual tree on plan: 'Tree of Heaven'	Removal.	To facilitate development proposals.
Hedgerows	Sections to be removed.	To facilitate development proposals.

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2.2 Year 1

Block Ref./Hedgerows	**Recommended Action**	**Reason/Aim no. (reference Section 1.3)**
Block H	New block within group to be planted. Species mix shown on plan.	Aim no. 1, 3 & 4
Individual trees marked on plan	Further individual trees marked on plan to be planted within woodland group. Species choices and locations are shown on plan.	Aim no. 1, 3 & 4
Hedgerows	'Siding-back' of hedgerow (reducing in width) to approximately 5m in width unless stated otherwise on the plan. Removal of bramble outside the proposed new line of the hedgerow. Reduce height to approximately 3m.	Aim no. 6

2.3 Year 2

Block Ref./Hedgerows	**Recommended Action**	**Reason/Aim no. (reference Section 1.3)**
Block A	Remove all Norway Spruce (*Picea abies*) within block and replace with x2 Hazel (*Corylus* avellana), x1 Elder (*Sambucus nigra*) and x2 Rowan (*Sorbus aucuparia*), planted in even distribution throughout block. Existing Elder within group to be retained.	Aim no. 1,2,3, & 4
Block C	Thin group by removing all stems 14cm or less in diameter at a height of 1.5m.	Aim no. 1,2 & 3
Block G	Remove all sucker regrowth 10cm or less in diameter at a height of 1.5m.	Aim no. 1,2 & 3
Individual trees marked on plan	Further individual trees marked on plan to be planted within woodland group. Species choices and locations are shown on plan.	Aim no. 1,3 & 4
Hedgerows	No works.	N/A

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2.4 Year 3

Block Ref./Hedgerows	**Recommended Action**	**Reason/Aim no. (reference Section 1.3)**
Block C	Remove wounded stems within group (approximately 4 stems) and replace with equal number of Hazel (*Corylus* avellana) and Rowan (*Sorbus aucuparia*) at approximately 50:50 ratio, planted in even distribution.	Aim no. 1,2,3 & 4
Block G	Thin by 25%, optimising poorer and/or smaller specimens.	Aim no. 2 & 5
Hedgerows	Maintenance trimming works to encourage dense growth and to maintain specified profile (generally 5m wide and 3m high unless otherwise shown on plan).	Aim no. 6

2.5 Year 4

Block Ref./Hedgerows	**Recommended Action**	**Reason/Aim no. (reference Section 1.3)**
Block D	Thin by 50%, optimizing poorer/smaller and non-native specimens, to promote the establishment of good quality amenity trees if those remaining.	Aim no. 1,2 & 3
Block G	Thin by 30%, leaving 50% of original Sycamore stems (excluding sucker regrowth). Optimize removals to poorer/smaller specimens. Replace with x2 Field Maple (*Acer campestre*) planted at 2m centres.	Aim no. 1,2 & 3
Hedgerows	No works.	N/A

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2.6 Year 5

Block Ref./Hedgerows	Recommended Action	Reason/Aim no. (reference Section 1.3)
Block C	Removal of any remaining Tree of Heaven (*Alianthus altissima*) within block (non-native tree). Removed stems to be replanted on a 1:1 basis with either of the following native species: Hawthorn (*Crataegus monogyna*) or Rowan (*Sorbus aucuparia*).	Aim no. 1,2,3 & 4
Hedgerows	Maintenance trimming works to encourage dense growth and to maintain specified profile (generally 5m wide and 3m high unless otherwise shown on plan).	Aim no. 6

2.7 Recommended Planting sizes/types

2.7.1 For newly planted trees, the following stock sizes/planting types are recommended to fulfil the objectives of supplying a degree of instant tree cover and also to vary the size of trees planted, to provide an added degree of interest and diversity to the newly planted trees.

Tree Species	Stock Size/Type	Stake/tie method
Hazel (*Corylus avellana)*	Container grown in 15 litre pot. 1.5-1.75m in height.	Square stake with buckle tie and spacer.
Elder (*Sambucus nigra*)	Bare root 80-100cm in height.	Bamboo cane and tie.
Rowan (*Sorbus aucuparia*)	Container grown in 15 litre pot. 1.7-2.7m in height.	Tree stake with buckle tie and spacer.
Hawthorn (*Crataegus monogyna*)	Bare root 100-125cm in height.	Bamboo cane and tie.
Field Maple (*Acer campestre*)	Bare root 3-3.5m in height. 10-12cm girth. Within block H – container grown in 30 litre pot 2.4-3.5m in height.	X2 tree stakes with cross bar and buckle tie.
English Oak (*Quercus robur*)	Container grown in 30 litre pot 2.4-3.5m in height.	X2 tree stakes with cross bar and buckle tie.

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3. Conclusion/ Ongoing Works

3.1 The works detailed in this management plan will promote the establishment of a high quality POS area of woodland character. It will implement good, arboricultural management practices which entail the use and establishment of native species of trees, as well as the creation of varied canopy heights within the POS area, whilst simultaneously reducing the number of non-native specimens. Removals highlighted within this report are to be staged over a 5 year period, reducing impacts to amenity or to the surrounding landscape, implementing a gradual change for the better. The hedgerows incorporated within the development are to be brought into a regime of good management, allowing them to be maintained as formal landscape features.

3.2 Upon completion of the 5 year management plan, the POS area will be in a good state of establishment and will lend itself to being maintained as an amenity landscape feature of woodland character. The following comments have been given with a view to the ongoing future management of the woodland group and of the hedgerows. They are considered to be prudent in terms of good practice, however they are not obligatory within the scope of this report:

- Regular arboricultural inspections should be undertaken in order to assess health and safety risks posed by the group, highlight any newly planted trees which require remedial works or replacing if they have failed and any other issues of arboricultural significance (presence of pests and diseases, clearance heights over footpaths/roads etc.).

- It is intended that non-native species are phased out of the woodland group, in the interests of good arboricultural practice. In this regard, the remaining Sycamore trees within Block G should be left to retain a degree of mature tree cover while the newly planted trees are establishing. Upon their eventual, natural demise, they should not be replaced with more sycamores. Instead, if required, replacements should be secured of native species.

- An area of open space is proposed within the above management plan in the interests of public accessibility and this is shown on the plan in a light green hatch. During future arboricultural inspections, consideration should be given to maintaining this open space, highlighting necessary clearance works (such as crown lifting), where necessary in order to maintain ‘walkable’ space within the group.

- Various canopy heights have been proposed through the species choices and locations within the management plan above. During the ongoing management of the POS, this diversity should be kept and maintained. Consideration should be given to this during any future felling or replanting works.

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- Aftercare regimes are not detailed in this report and these should be confirmed and agreed upon, in order to ensure good establishment and the up-keeping of the management aims included in **Section 1.3.**

- The boundary hedgerows recommended for works within this report will require ongoing maintenance works in order to prevent them from becoming untidy, unmanageable features. Consideration as to how this will be achieved should also be given.

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Appendix 1: Author Qualifications

Principal Consultant and Managing Director

Jonathan Cocking *F.R.E.S., Tech. Cert. (Arbor.A), PDipArb (RFS) FArborA CBiol MSB. MICFor.* Jonathan is a Registered Consultant and Fellow of the Arboricultural Association and sits on its Professional Committee. He has 31 years experience in the Arboricultural profession and served for eight years as Senior Arboriculturist with a large local authority before establishing JCA in 1997. Jonathan has since developed JCA's portfolio of services and its extensive client base. He is a Chartered Biologist, a Chartered Arboriculturalist and an Expert Witness with much experience of litigation work.

Technical Coordinator

Toby Thwaites *BSc (Hons), HND (Arboriculture).* Toby joined JCA in 1998 after graduating in Ecology at the University of Huddersfield and has since graduated in Arboriculture at the University of Central Lancashire. A former JCA team leader and Consulting Arboriculturist, Toby was promoted to Technical Coordinator and now oversees all office and on-site activities at JCA and is on hand to offer technical support and advice.

Consulting Staff: Arboriculture

Andy Bagshaw *FdSc (Arboriculture).* Andy joined JCA in 2005 having gained several years experience in tree surgery and landscaping. He is trained in aerial rescue and is JCA's principal first aid person. Andy has obtained a foundation degree in Arboriculture at the University of Central Lancashire, is QTRA qualified and is a JCA team leader who manages an office of Consulting Arboriculturists.

Toby Parsons *Cert. Arb. (RFS), Tech. Cert. (Arbor.A).* Toby joined JCA after spending 6 years working as a senior climber for various Arboricultural contractors in the East Midlands and the South-West. He has gained the Level 2 Certificate in Arboriculture (RFS) and an Arboricultural Technicians Certificate. Toby is LANTRA certified in Professional Tree Inspection.

Scott Reid *ND (Arboriculture and Forestry)*. Scott joined JCA after working with other consultancy companies in the south of England. He specialises in trees in relation to development and holds a National Diploma, various NPTC qualifications and is currently studying for his Level 4 Diploma in Arboriculture.

Andrew Bussey Andrew joined JCA having spent 12 years working as a tree surgeon for various private companies and a Local Authority. He has various NPTC qualifications, is QTRA qualified and is currently studying for his Arboricultural Technicians Certificate.

Phil Humeniuk *FdSc (Arboriculture).* Phil joined JCA having spent 3 years working for various tree surgery companies and as a Tree Officer for a Local Authority. He also has several years experience working as a consultant both for JCA and for another consultancy. Phil obtained his foundation degree in Arboriculture at the University of Central Lancashire and has various NPTC's and is LANTRA certified in Professional Tree Inspection.

Flora Harding *BSc (Hons) Fd.BSc. (Arboriculture and Tree Care).* Flora has a degree in Rural Resource Development (specialising in Wildlife and Landscape Conservation). She spent her former career working for a local authority and has a licence for QTRA. In 2012, Flora published an article to enable industry based research for the purpose of gaining Chartered Arboriculturist status.

Michelle Ryan *BSc (Hons) Arboriculture.* Michelle has recently joined JCA having previously worked for a Local Authority. She obtained a degree in Arboriculture at the University of Central Lancashire and has various NPTC qualifications. Michelle is seeking to become LANTRA certified in Professional Tree Inspection.

Consulting Staff: Ecology

David Ryder. David has recently joined JCA as our in-house ecologist. He brings with him over 8 years experience in the field of ecological consultancy. David holds a Natural England Licence to disturb and handle bats and is currently undergoing assessment for Chartered Institute of Ecology & Environmental Management (CIEEM) membership.

Administrative Staff

Sue Guest Administrative Team Leader.
Simeon Haigh *BSc (Hons).* IT Officer.
Lorraine Spink Administrative Assistant.
Yasmin Shahzad Administrative Assistant.
Catherine Cocking Accounts Manager.

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Appendix 2: General Guidelines

A4.1 All work must be to BS 3998: 2010 - '*Recommendations for tree work'*.

A4.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors, and should be covered by adequate public liability insurance.

A4.3 This report is based upon a visual inspection. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.

A4.4 Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.

A4.5 No liability can be accepted by the consultant in respect of the trees unless the recommendations of this report are carried out under his supervision and within his timescale.

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Appendix 3: Site Plan/Proposals (sheet 1)

Existing Tree Stock prior to development

ADDRESS: Kingsley Farm, Kingsley Road, Harrogate, North Yorkshire.
JCA Ref: 11042b/SR.

NOT TO SCALE	PAPER SIZE : A1
DRAWN BY: SR	APPROVED BY: TT

This drawing should be read in conjunction with the associated Woodland Management Plan JCA Ref: 11042b/SR.

Woodland Block Ref No.	Woodland Block description/composition
A	Comprises primarily of young to semi-mature Norway Spruce (non-native) with a single Elder also contained within (native).
B	Comprises of mainly semi to mature English Oak and Sycamore (non-native). Also contains single specimens of Field Maple, English Oak and Rowan (all native).
C	Comprises of Tree of Heaven (non-native). Many smaller stems noted within are suspected to be suckers of larger stems.
D	Linear group comprising of Common Ash (native) and Sycamore (non-native), closely planted together.
E	Small, linear group of four Common Ash stems (native), one with an included union at the base.
F	Four small, dead stems, recommended for removal regardless of development proposals.
G	Dense group of Sycamore stems with significant sucker re-growth (non-native).

	Canopies/stems of existing, live trees. In variable condition.
	Stems of dead trees within POS group identified in the intial survey. Recommended for removal regardless of development proposals.

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Removals for development (approximate)

	Approximate outlines of woodland blocks/ hedgerow to be retained within the development proposals.
	Approximate location of tree stems to be retained within the development proposals.
	Approximate outlines of woodland blocks/hedgerow to be removed to accomodate the development proposals.
	Approximate location of tree stems to be removed to accomodate the development proposals.

Year 1: Replacement Planting

H	New woodland block created through replanting works.
	Location of new trees to be planted.
	Existing trees/tree blocks, not subject to works this year (shown in grey).
CM	Species choice: Hawthorn (Crataegus monogyna).
QR	Species choice: English Oak (Quercus robur).
AC	Species choice: Field Maple (Acer campestre).

Year 2: Thinning works and replanting

C	Existing woodland block subject to thinning works. Block C: Dib block by removing all stems 14cm or less in diameter at a height of 1.5m
G	Existing woodland block subject to thinning works. Block G: Remove all sucker re-growth 10cm or less in diameter at a height of 1.5m.
A	Existing woodland block subject to thinning works. Block A: Remove all Norway Spruce (Picea abies) shown in red, replace with x2 Hazel (Corylus avellana), x1 Elder (Sambucus nigra) and x2 Rowan (Sorbus aucuparia) planted in an even distribution. Existing Elder in group to be retained (shown in grey).
	Existing trees/tree blocks, not subject to works this year (shown in grey).
	Location of new trees to be planted.
CM	Species choice: Hawthorn (Crataegus monogyna).
SA	Species choice: Rowan (Sorbus aucuparia).
AC	Species choice: Field Maple (Acer campestre).

Appendix 3: Site Plan/Proposals (sheet 2)

Year 3: Thinning and replanting works

ADDRESS: Kingsley Farm, Kingsley Road, Harrogate, North Yorkshire.
JCA Ref: 11042b/SR.

NOT TO SCALE	PAPER SIZE : A1
DRAWN BY: SR	APPROVED BY: TT

This drawing should be read in conjunction with the associated Woodland Management Plan JCA Ref: 11042b/SR.

C	Existing woodland block subject to thinning works. Block C: Thin by 50%, within group indiscriminately & sieve-j and replace these with an equal number of Hawthorn (Crataegus monogyna) & Blackthorn (Prunus spinosa) at approximately 50:50 ratio and plant in an even distribution.
D	Existing woodland block subject to thinning works. Block D: Thin block by 50%, removing the poorer and/or smaller specimens.
	Existing treeshrw blocks, not subject to works this year (shown in grey).

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Year 4: Thinning and replanting works

D	Existing woodland block subject to thinning works. Block D: Thin by 50%, removing the poorer specimens and replanting gaps.
C	Existing woodland block subject to thinning works. Block C: Thin by 25%, leaving 50% of original number of specimens, evenly distributed. Maintain close canopy with an average of 2m centres.
	Existing treeshrw blocks, not subject to works this year (shown in grey).

Year 5: Final works

	Existing woodland block subject to removal & replacement. Block C: Removal of any remaining stems of Tree of Heaven (Ailanthus altissima) and replant the gap to be replaced on a 1:1 basis with either of the following native species: Rowan (Sorbus aucuparia) or Hawthorn (Crataegus monogyna).
	Existing treeshrw blocks, not subject to works this year (shown in grey).

Tree Stock following 5 year management

ADDRESS: Kingsley Farm, Kingsley Road, Harrogate, North Yorkshire.
JCA Ref: 11042b/SR.

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This drawing should be read in conjunction with the associated Woodland Management Plan JCA Ref: 11042b/SR.

Woodland Block Ref No.	Woodland Block description/composition
A	Understorey group comprises of x1 Field Maple (Acer campestre), x3 Elder (Sambucus nigra) and x2 Rowan (Sorbus aucuparia)
B	Medium canopy group comprises of x1 Field Maple (Acer campestre), x1 Elder (Sambucus nigra) and x1 Rowan (Sorbus aucuparia)
C	Understorey group. Replacement of Sycamore group, now x1 Hawthorn (Crataegus monogyna) x1 Blackthorn (Crataegus monogyna) and Rowan (Sorbus aucuparia).
D	Upper storey group comprising of Common Ash (Fraxinus excelsior).
E	Removed - no longer present.
F	Removed - no longer present.
G	Medium canopy group comprising of x1 Field Maple (Acer campestre) and a few remaining Sycamore stems (Acer pseudoplatanus) Remaining Sycamore stems are to be felled gradually and intensive to be replaced with native species as and when necessary.
H	Upper canopy group comprising of English Oak (Quercus robur) and Field Maple (Acer campestre).

	Lower canopy groups' stems.
	Medium canopy groups' stems.
	Upper canopy groups' stems.
	Proposed open areas for public access.

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Appendix 3: Site Plan/Proposals (sheet 3)

Hedge Management

ADDRESS: Kingsley Farm, Kingsley Road, Harrogate, North Yorkshire.
JCA Ref: 11042b/SR.

NOT TO SCALE	PAPER SIZE : A1
DRAWN BY: SR	APPROVED BY: TT

This drawing should be read in conjunction with the associated Woodland Management Plan JCA Ref: 11042b/SR.

	Sections of hedgerow requiring removal to facilitate development
	Sections of hedgerow to be retained.
	Sections of hedgerow to be 'sided-back'/ removed within management proposals.
	Approximate width markings for retained hedgerow, following 'siding-back' works (see above).
Year 1:	'Siding-back' of hedgerow (reducing in width); generally to 5m width, unless otherwise shown on the plan. Reduce in height to approximately 3m.
Year 2:	No works.
Year 3:	Maintenance trimming works to encourage dense growth and to maintain specified profile (generally 5m wide and 3m high unless otherwise shown on plan).
Year 4:	No works.
Year 5:	Maintenance trimming works to encourage dense growth and to maintain specified profile (generally 5m wide and 3m high unless otherwise shown on plan).

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I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed

.....

Scott Reid *ND (Arboriculture and Forestry)*.

29th September 2014
Amended on 14th October 2014

For and on behalf of ***JCA Ltd***

Registered Office:

Unit 80
Bowers Mill
Branch Road
Barkisland
Halifax
HX4 OAD

Tel. 01422 376335
Fax. 01422 376232
Email: jon@jcaac.com

www.jcaac.com

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- Tree surveys for subsidence
- Heave assessment
- Tree root identification

Tree Advice for Landowners, Homeowners, and Homebuyers

- Tree Safety/health surveys
- Tree surveys for mortgage purposes
- Planting advice/scheme design
- Garden tree and shrub maintenance plans

Tree Advice for Local Authorities and Estate Managers

- Tree Inventories and Risk Assessments
- TPO re-surveys
- Trees in Historic Parks and Gardens
- Veteran trees
- Woodland Management Plans
- Ancient woodland
- Tree planting schemes

Tree Advice for the Legal Profession

- Litigating subsidence claims
- Personal Injury cases
- Expert witness for planning inquiries and appeals

Registered Office:
Unit 80 Bowers Mill Branch Road Barkisland Halifax HX4 0AD
Tel: 01422 376335 Fax: 01422 376232 Mobile: 07778 391986
Email: jon@jcaac.com Website: www.jcaac.com
Company Reg No. 05005041 VAT No. 686 4674 78

Directors:

Jonathan Cocking
F. R. E. S., Tech. Cert. (Arbor A), P. Dip. Arb.
(R. F. S.), F. Arbor. A., CBiol, MIBiol

Catherine Cocking
RGN RM

Photo front cover: Sluice at Bowers Mill

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