

ARBORICULTURAL REPORT
to BS 5837:2012
at
65 Market Street
Hoyland
Barnsley
South Yorkshire
S74 0ET

Client:
Mr Trevor Brown

Client Address:
33 Darton Road
Cawthorne
Barnsley
South Yorkshire
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JCA Ref:
11296/AJB

JCA Limited

Arboricultural Consultants

Contents

1. Introduction.....	3
1.1 Purpose of the Report	3
1.2 Terms of Reference	3
1.3 Scope of the Report	3
1.4 Survey Details	3
2. Site Description	4
2.1 Land Use.....	4
2.2 Topography.....	4
2.3 Treescape	4
2.4 Visual Amenity Value	4
2.5 Age Class Mix	4
2.6 Species Diversity	4
3. Status of the Trees	5
4. Tree Descriptions and Recommendations	5
5. Discussion	5
5.1 Tree Condition & Recommended Works.....	5
5.2 Potential Arboricultural Implications & General Design Advice.....	6
6. Conclusions.....	8
 Appendix 1: Tree Descriptions and Recommendations	 10
Appendix 2: Explanation of Tree Descriptions.....	11
Appendix 3: General Guidelines	13
Appendix 4: Glossary of Terms & Abbreviations	14
Appendix 5: Author Qualifications.....	15
Appendix 6: Tree Constraints Plan.....	16

1. Introduction

1.1 Purpose of the Report

- 1.1.1 A report is required at **65 Market Street, Hoyland, Barnsley**, to provide detailed, independent, arboricultural advice on the trees present, in the context of potential development.

1.2 Terms of Reference

- 1.2.1 I am instructed by **Mr Trevor Brown** to visit the site and prepare my findings in a report.
- 1.2.2 No topographical plan was provided on this occasion. A site plan has therefore been created based on measurements taken on site. As this is the case, the Tree Constraints Plan at **Appendix 6** should be treated as indicative with regards to tree, hedge and group positions. It should not be scaled or drawn from and it should not be used for architectural purposes.

1.3 Scope of the Report

- 1.3.1 This report is compiled in accordance with *BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations*.
- 1.3.2 Preliminary recommendations are given with a view to the long-term management of a sustainable tree cover.
- 1.3.3 All trees within the site boundary with a stem diameter above 75mm are included.
- 1.3.4 Where applicable trees outside the site boundary, but close enough to be affected by the proposed development, are included.
- 1.3.5 The specific design of any proposed development is not generally taken into account at this stage.

1.4 Survey Details

- 1.4.1 The survey took place during the month of October 2013.
- 1.4.2 The survey was conducted by Andrew Bussey.
- 1.4.3 Inspection was made at ground level. Further investigation, such as climbed inspections or decay detection surveys, may be recommended where appropriate.
- 1.4.4 Measurements were obtained using clinometers, specialist tapes and electronic distometers. Where this was not possible measurements were estimated.

2. Site Description

2.1 Land Use

- 2.1.1 The site is occupied by an area of waste ground which used to house an auto-repair industrial unit which has now been demolished.

2.2 Topography

- 2.2.1 The site slopes gently from the southwest down towards the north-eastern boundary.

2.3 Treescape

- 2.3.1 Surrounding the site is a residential area containing many garden trees.
- 2.3.2 The trees on this site have a moderate impact on the local treescape.

2.4 Visual Amenity Value

- 2.4.1 The trees on site collectively provide a limited visual amenity to the surrounding area as they can only be viewed from within the site or from adjacent properties.

2.5 Age Class Mix

- 2.5.1 The trees surveyed ranged in age from young to mature.

2.6 Species Diversity

- 2.6.1 Species surveyed include Leylandii, Myrobalan Plum, Hawthorn, Horse Chestnut, Goat Willow, Sycamore, Common Ash, Cherry and Holly.

3. Status of the Trees

- 3.1 A check was made on 17th October 2013 with **Barnsley Metropolitan Borough Council**.
- 3.2 We are informed that there is a Tree Preservation Order in force on this site which affords protective status to **T3** within this report.
- 3.3 Before any work is organised, all the necessary steps to get the permission of the Local Planning Authority must be taken.
- 3.4 ***No work must be done to any trees until permission has been granted.***

4. Tree Descriptions and Recommendations

- 4.1 Full details of all individual trees surveyed are recorded in the tables at **Appendix 1**, a full explanation of the tables can be found at **Appendix 2**. Please refer also to the Tree Constraints Plan at **Appendix 6** for tree locations.

5. Discussion

5.1 Tree Condition & Recommended Works

- 5.1.1 The tree survey revealed a total of **15** items of vegetation (**8** individual trees, **5** groups of trees and **2** hedges). Of these, **1** tree was identified as retention category 'B', **5** trees, **5** groups of trees and **2** hedges were identified as retention category 'C' and **2** trees were identified as retention category 'U'. No retention category 'A' trees were identified on this occasion. Please refer to **Appendix 2** for retention category and definition criteria.
- 5.1.2 **T6** and **T8** were identified as retention category 'U'. These trees have defects and require removal for arboricultural reasons regardless of any on site development, as detailed in **Appendix 1**.
- 5.1.3 No other remedial works are required.
- 5.1.4 **T3** and **T10** were noted to have structural or physiological defects, as detailed at **Appendix 1**. Although these trees were considered to be in an acceptable condition at the time of the inspection, the defects observed may lead to their early demise or render them unsafe in the future. As such, it is recommended that these trees be monitored (re-inspected) on an annual basis to assess if their condition is still acceptable.
- 5.1.5 Where a full detailed inspection of trees was inhibited by restricted access or by the presence of Ivy, as detailed at **Appendix 1**, it is advised that these trees be re-inspected for any possible defects when the Ivy has been removed or when access has been made available.

5.2 Potential Arboricultural Implications & General Design Advice

- 5.2.1 The details of the proposed development are not known at present. However, the following comments can be made about the site in terms of its tree cover in relation to a potential development.
- 5.2.2 During development the part of the tree most commonly under threat, and most commonly ignored, is the rooting system. When trees are damaged, particularly the roots, their long-term health and stability can be affected. Most development activity can have an impact on the future condition and safety of a tree, and therefore careful planning and management of tree protection should ensure a continued sustainable tree cover with minimal stress to existing trees.
- 5.2.3 In order to ensure that the retained trees on site are properly protected during the development phase, the tree rooting zones are to be considered. For the purpose of development the rooting zone of the tree is known as the Root Protection Area or RPA. The RPA of each tree or group is marked on the Tree Constraints Plan at **Appendix 6** and represents the rooting zone which, where possible, should remain undisturbed. The protection of retained trees can therefore be achieved by erecting a temporary barrier (based on the RPAs), so creating a **Construction Exclusion Zone**.
- 5.2.4 Damage caused by any construction activity such as demolition, soil stripping, and provision of services needs to be considered at the design stage. Care must be taken to avoid damage to tree roots when existing structures such as tarmac surfaces are removed within an RPA.
- 5.2.5 The laying of access roads, driveways, parking areas or any other hard surfaces planned in proximity to retained trees needs to be considered. There are solutions available allowing for the construction of hard surfaces within the RPAs without causing significant damage to the trees.
- 5.2.6 Boundary walls or other light structures can be constructed without damage to roots through the use of piled foundations rather than the more traditional strip foundations.
- 5.2.7 The location of drainage and utilities within the RPA can be achieved if need be, using special techniques and supervision.
- 5.2.8 The position of the site compound is a major consideration. It is recommended that this, which typically includes the site office, facilities, toilets, storage of materials and parking, is located away from trees and outside the RPA.
- 5.2.9 Consideration must be given to movement of both vehicle and pedestrian traffic. If possible traffic should be diverted away from the RPAs. If this is not possible a range of temporary surfaces are available to distribute the weight of traffic and allow the roots to receive moisture and air.

- 5.2.10 Generally, the alteration of ground levels within the RPA is not acceptable. However, should ground levels need to be lowered in areas adjacent to trees or within the minimum distance recommended, appropriate measures must be taken to minimise the detrimental effects on the trees and their root systems. With regards to raising levels, it is necessary to maintain adequate supplies of moisture and oxygen through the soil to the tree roots. Therefore, no material must be placed within the RPA without arboricultural advice.
- 5.2.11 The shade that will be cast by the retained trees must also be considered. Where buildings are to be positioned within the shade cast area of trees, these should be designed in order to maximise light levels. If required, JCA can provide a shade cast prediction plan.
- 5.2.12 Many development sites contain areas of nature conservation interest. Trees and hedgerows, in particular, provide an important habitat for birds, bats, invertebrates and fungi and appropriate attention needs to be paid to preserving habitats throughout the development process. JCA can provide Ecological Surveys and Bat Surveys where required.
- 5.2.13 Where a landscape planting scheme is proposed, consideration must be made at the planning stage as to where this is to be implemented on site. Such locations should be protected in order to prevent soil compaction and/or contamination and should therefore form part of the Construction Exclusion Zone. JCA can provide Tree Planting Schemes where required.

6. Conclusions

- 6.1 The trees surveyed were generally found to be in good or fair condition.
- 6.2 **T3** is protected by a Tree Preservation Order.
- 6.3 **T6** and **T8** have been recommended for removal for arboricultural reasons. These are discussed in **Section 5.1.2** and detailed at **Appendix 1**.
- 6.4 **T3** and **T10** require an annual inspection as they have structural or physiological defects. These are discussed in **Section 5.1.4** and detailed at **Appendix 1**.
- 6.5 All development work carried out in close proximity to trees must be done so in a manner sympathetic to their needs. Otherwise the condition of the trees may deteriorate in the months and years following the development, leading to a loss of amenity and potentially hazardous trees.
- 6.6 Care must be taken at the design stage to ensure that the retained trees are protected. The protection of the retained trees can be achieved by installing a temporary barrier to create a Construction Exclusion Zone (based on the Root Protection Areas). The Root Protection Area of each tree or group is marked on the Tree Constraints Plan at **Appendix 6**.
- 6.7 The proposed development should be accompanied by an Arboricultural Method Statement detailing the specific protection measures necessary for each tree. This should specify the temporary protective barrier standards and positions (the creation of the Construction Exclusion Zone), acceptable construction techniques and necessary tree works.
- 6.8 Upon instruction JCA Limited are able to provide a comprehensive Arboricultural Method Statement in order to ensure the continued health of trees throughout the proposed development. We are also able to provide Tree Planting Schemes and organise tree works.

Appendices

Tree Ref.	Age Species Latin Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	Life Expectancy (yrs)	Retention Category
G 1	Young to semi-Mature Mixed	To 7	0+	0 n/a	To #31	See plan	A group of trees and shrubs including Leylandii, Myrobalan Plum and Hawthorn growing on adjacent land. A full detailed inspection was not possible due to their location. No major visible defects apparent.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C
H 2	Semi-mature Leylandii <i>X Cupressocyparis leylandii</i>	To 10	0+	0 n/a	To 19	See plan	A hedge which is well maintained in places, which runs along the north-western boundary. This hedge provides a screen between the site and the surrounding properties.	No action required.	GOOD	GOOD	LOW	20-40	C
T 3	Mature Horse Chestnut <i>Aesculus hippocastanum</i>	14	1	1 n/a	#75	#6 #5.2 5.8 7.4	Located on the boundary line. A full detailed inspection was not possible due to restricted access. Twin-stemmed at 2.5m with a balanced crown. Occasional pruning wounds. Bark cracks to scaffold branches may indicate the onset of Bleeding Canker of Horse Chestnut. Leaf Miner Moth infestation noted.	Monitor annually. Re-inspect if access becomes available.	GOOD	GOOD	LOW	40+	B
G 4	Semi-mature Goat Willow <i>Salix caprea</i>	To 10	1	1 E	To #20	See plan	Three trees situated on adjacent land. A full detailed inspection was not possible due to their location. All multi-stemmed at ground level with balanced crowns. No evidence of significant pruning. No major visible defects.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C
T 5	Early-mature Sycamore <i>Acer pseudoplatanus</i>	14	3	3 S	#70 at base	#4 #6.5 5.8 7.5	Situated on adjacent land. A full detailed inspection was not possible due to its location. Twin-stemmed at 1m with a balanced crown. Multiple pruning wounds due to crown lifting. Minor decay cavities noted. No major visible defects.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C
T 6	Semi-mature Common Ash <i>Fraxinus excelsior</i>	10	5	5 SE	#32	#3 #0 8.5 3	Situated on adjacent land. Twin-stemmed at 1m and severely leaning. One stem has been removed leaving the tree very unbalanced to the east. Poor form with a limited long term future.	Remove as a matter of low priority.	FAIR	POOR	LOW	<10	U
T 7	Early-mature Sycamore <i>Acer pseudoplatanus</i>	14	3	3 E	#58	#5.5 #4 5.6 4	Situated on adjacent land. A full detailed inspection was not possible due to its location and Ivy. Estimated to be twin-stemmed at 2m with a balanced crown. No evidence of significant pruning. No major visible defects.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C
T 8	Early-mature Common Ash <i>Fraxinus excelsior</i>	10	3	3 n/a	#50 at base	#5 #5 5 5	Single stemmed and leaning with a balanced crown. Massive decay cavities at the base leading to vast internal decay. This tree is likely to be structurally unsound.	Remove as a matter of moderate priority.	FAIR	POOR	LOW	<10	U

Tree Ref.	Age Species Latin Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	Life Expectancy (yrs)	Retention Category
H 9	Young Leylandii <i>X Cupressocyparis leylandii</i>	To 4	0+	0 n/a	To 11	See plan	A scrappy unmaintained hedge of low value.	No action required.	GOOD	GOOD	LOW	20-40	C
T 10	Semi-mature Cherry <i>Prunus sp.</i>	7	1	1 n/a	36	5 5.5 4.9 4	Twin-stemmed at 1.2m with a balanced crown. Multiple pruning wounds and branch stubs due to crown lifting and previous pruning. Crossing branches noted. Weak fork at the stem junction.	Monitor annually.	GOOD	GOOD	LOW	20-40	C
T 11	Semi-mature Common Ash <i>Fraxinus excelsior</i>	11	1	1 E	#28	#3.5 #3 #5.2 #4	Situated on adjacent land. A full detailed inspection was not possible due to its location. Single stemmed and vertical with a balanced crown. Multiple pruning wounds due to crown lifting. No major visible defects.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C
T 12	Early-Mature Common Ash <i>Fraxinus excelsior</i>	14	3	3 n/a	To #40	#8 #6 #7 #6.5	Situated on adjacent land. A full detailed inspection was not possible due to its location. Estimated to be twin-stemmed at 1m with a balanced crown. No evidence of significant pruning. A large, heavy limb was noted to south east.	Re-inspect if access becomes available.	GOOD	FAIR	LOW	20-40	C
G 13	Semi-mature to early-mature Hawthorn <i>Crataegus monogyna</i>	To 7	0+	0 n/a	To 25	See plan	A line of trees of poor quality forming an unmaintained hedgerow. A full detailed inspection was not possible due to restricted access and dense vegetation. Deadwood, decay cavities and bark defects noted.	Re-inspect if access becomes available.	FAIR	FAIR	LOW	20-40	C
G 14	Young to semi-mature Mixed	To 7	0+	0 n/a	To #25	See plan	A group of poor quality, self seeded trees including Cherry, Sycamore, Horse Chestnut and Goat Willow. Located on waste ground. A full detailed inspection was not possible due to poor terrain and dense vegetation. No major visible defects apparent.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C
G 15	Young to early-mature Mixed	To 10	0+	0 n/a	To #32	See plan	A group of reasonably formed trees including Cherry, Sycamore and Holly. Located on or just beyond the boundary line. A full detailed inspection was not possible due to their location, poor terrain and dense vegetation. No major visible defects apparent.	Re-inspect if access becomes available.	GOOD	GOOD	LOW	20-40	C

Appendix 2: Explanation of Tree Descriptions

A2.1 Measurements

- A2.1.1 *HEIGHT* of the tree is measured from the stem base in metres. Where the ground has a significant slope the higher ground is selected.
- A2.1.2 *CROWN HEIGHT* is an indication of the average height at which the crown begins. Also recorded is the height of the first significant branch and the direction of growth.
- A2.1.3 *STEM DIAMETER* is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed below a height of 1.5 metres, the diameter is measured at the narrowest point below the fork.
- A2.1.4 *CROWN SPREAD* is measured from the centre of the stem base to the tips of the branches in all four cardinal points.

A2.2 Evaluations

- A2.2.1 *AGE CLASS* of the tree is described as young, semi-mature, early-mature, mature, or over-mature.
- A2.2.2 *PHYSIOLOGICAL CONDITION* is classed as good, fair, poor, or dead. This is an indication of the health of the tree and takes into account vigour, presence of disease and dieback.
- A2.2.3 *STRUCTURAL CONDITION* is classed as good, fair or poor. This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.
- A2.2.4 *LIFE EXPECTANCY* is classed as; less than 10 years, 10-20 years, 20-40 years, or more than 40 years. This is an indication of the number of years before removal of the tree is likely to be required.

A2.3 Retention Categories

A2.3.1 A (marked green on the plan) = trees of high quality; retention most desirable.

These trees are of high quality and value with a good life expectancy. They may be further sub-divided as follows:

- A1) Particularly good examples; perhaps rare or unusual species, or forming an essential part of arboricultural features e.g. avenues.
- A2) Groups of trees having a significant landscape impact or with excellent screening properties, or those softening the effect of existing structures.
- A3) Those having significant conservation or historical value e.g. veteran trees.

A2.3.2 B (marked in blue on the plan) = trees of moderate quality; retention desirable.

These trees are of moderate quality and value with a significant life expectancy. They may be further sub-divided as follows:

- B1) Trees that might be included in the high category but because of their numbers or slightly impaired condition, are downgraded in favour of the better individuals.
- B2) Groups of trees forming distinct landscape features, thereby attracting a higher collective rating than they might as individuals.
- B3) Trees with clearly identifiable conservation or other cultural benefits.

A2.3.3 C (marked in grey on the plan) = trees of low quality but which could be retained.

These trees are of low quality and value, and are in adequate condition to remain until new planting could be established. They may be further sub-divided as follows:

- C1) Trees not qualifying in higher categories.
- C2) Groups of trees which do not form a distinct landscape feature.
- C3) Trees with very limited conservation or other cultural benefits.

A2.3.4 U (marked in red on the plan) = unsuitable for retention: trees for removal.

These trees are in such a condition that any existing value would be lost within 10 years. This may be due to any of the following:

- 1) Failure is likely due to serious, irredeemable, structural defects.
- 2) The trees are considered to be hazardous.
- 3) Diseases are present which may affect the health of adjacent trees.
- 4) They are in serious, overall decline or are already dead.
- 5) They are of low quality and suppressing adjacent trees of better quality.
- 6) Removal of other category U trees will render them exposed and unstable.

These trees should be removed or treated in such a way as to make them safe where they have high ecological value, such as in a woodland setting.

Appendix 3: General Guidelines

- A3.1 All work must be to BS 3998: 2010 - '*Recommendations for tree work*'.
- A3.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors. They should be covered by adequate public liability insurance.
- A3.3 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.
- A3.4 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.
- A3.5 No liability can be accepted by JCA Limited in respect of the trees unless the recommendations of this report are carried out under the supervision of JCA and within JCA's timescale.
- A3.6 It is advisable to have trees inspected by an arboricultural consultant regularly. In this instance it is recommended that these inspections are made every year.

Appendix 4: Glossary of Terms & Abbreviations

Arboriculture	The cultivation of trees in order to produce individual specimens of the greatest ornament, for shelter or any primary purpose other than the production of timber.
Canker	Disease damaged area of a tree, usually caused by fungus or bacteria.
Co-dominant Stem	A stem which has grown in direct competition to the main stem and which has formed a substantial size influencing the appearance of the tree.
Crown Lift	The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance underneath for vehicles, etc.
Crown reduce	The reduction of a tree's height or spread while preserving its natural shape.
Crown thin	The removal of some of the density of a tree's crown, usually 5-25% allowing more light through its canopy and reducing wind resistance.
Deadwood	Either dead branches, or a procedure involving the removal of dead, dying and diseased branches.
Dieback	Where branches are beginning to show signs of death usually at the tips in the crown.
Epicormic shoots	Small branches that grow in uncharacteristic clusters around the base or the stem of a tree, usually as a result of bad pruning or some other stress factor.
Formative pruning	The trimming of a tree to remove weaknesses and irregularities which may lead to problems. The formative pruning operation is aimed at reducing the potential for future weaknesses or problems within the tree's crown.
Included bark	Where the bark on two adjoining branches or stems is growing tight together, forming a joint with limited physical strength.
Pollarding	A method of tree management in which the main trunk of the tree is cut at about 4m, and the resulting branches are then cropped on a regular basis.
Remedial pruning	The removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tree's crown. Sometimes referred to as crown cleaning.
RPA	Root Protection Area – The theoretical rooting area of a tree as defined in BS5837: 2012 <i>Trees in relation to construction</i> .
Topping	Topping is a form of pruning that removes terminal growth leaving a 'stub' cut end. Topping causes serious health problems to a tree.

Appendix 5: 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 QTRA qualified and 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.

Gavin Proud BSc. (Hons), NC (Arboriculture). Gavin recently joined JCA having spent 8 years working for various tree work contractors as a climber and team leader. In addition to his qualification in Arboriculture, Gavin has various NPTC qualifications 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.

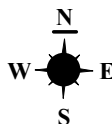
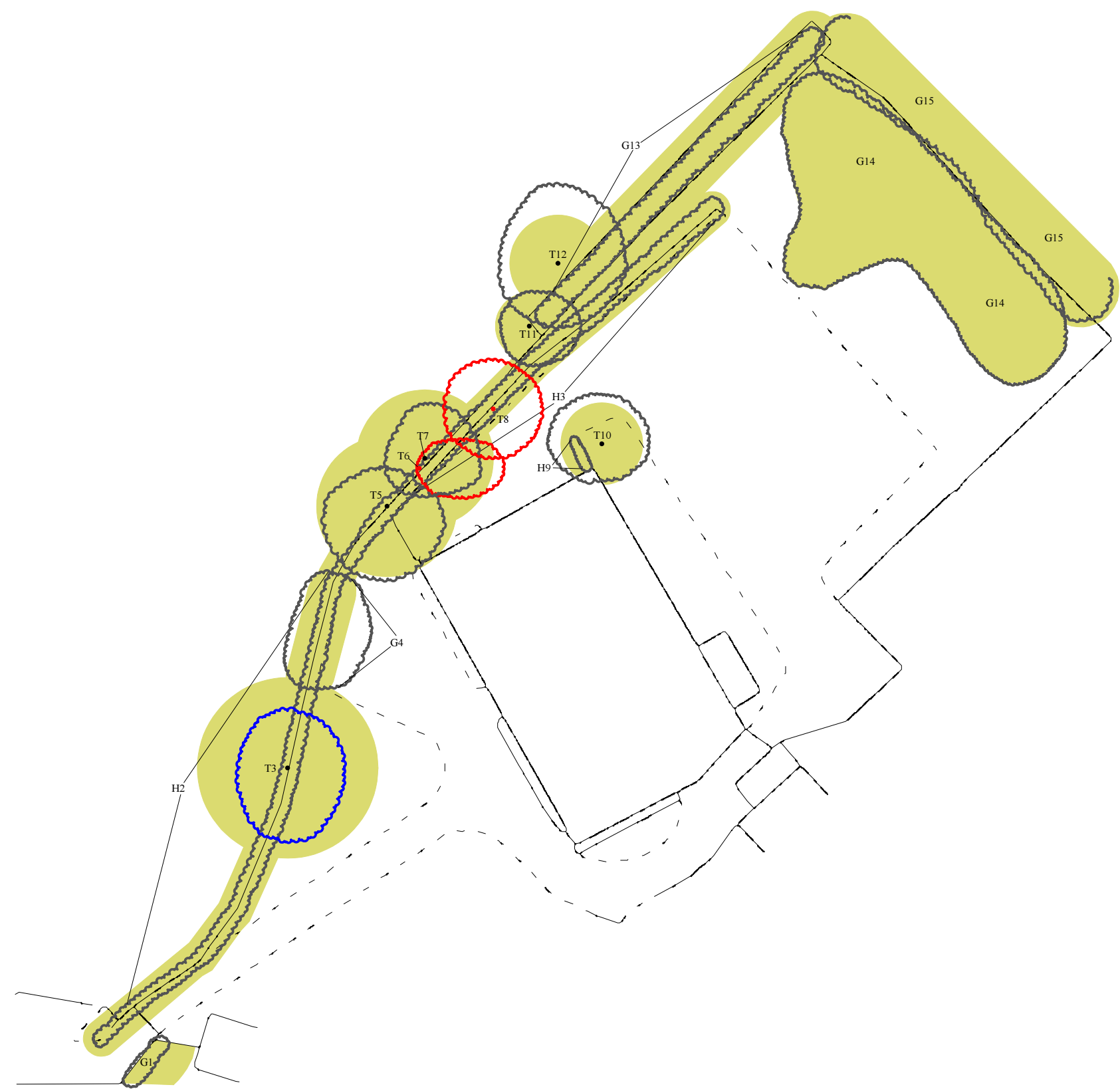
Consulting Staff: Ecology

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.



Root Protection Area: RPA

THE ROOT PROTECTION AREA (RPA) INDICATES THE LIKELY ROOTING ZONE OF A TREE. THE RPA SHOULD IDEALLY REMAIN UNDISTURBED IF A TREE IS TO BE RETAINED.

THE DEVELOPMENT PROPOSALS SHOULD THEREFORE BE DESIGNED TO AVOID THE RPA OF ANY TREE WHICH IS TO BE RETAINED.

IF IT IS NECESSARY FOR THE DEVELOPMENT TO ENCROACH INTO THE RPA OF A TREE WHICH IS TO BE RETAINED THEN SPECIALIST CONSTRUCTION TECHNIQUES AND MATERIALS MUST BE CONSIDERED.



**Appendix 6:
Tree Constraints Plan**

65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET. JCA Ref: 11296/AJB.		
SCALE : 1:500	PAPER SIZE : A3	
SURVEYED BY: AJB	DRAWN BY: AJB	APPROVED BY: SR

BRITISH STANDARD 5837:2012: 4.5 RETENTION CATEGORIES	
Detailed definitions of these categories are at Appendix 2 of our report. N.B. These categories do not necessarily represent or correspond to recommendations for action made in this report.	
	CATEGORY A: 'RETENTION MOST DESIRABLE'
	CATEGORY B: 'RETENTION DESIRABLE'
	CATEGORY C: 'TREE WHICH COULD BE RETAINED'
	CATEGORY U: 'TREE FOR REMOVAL'
	CENTRE OF TREE/SHRUB
	CENTRE OF TREE/SHRUB TO BE REMOVED
	ROOT PROTECTION AREA



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



.....

Andrew Bussey.

17th October 2013

For and on behalf of **JCA Ltd**

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Tree Advice for Engineers, Loss Adjusters and Insurers

- 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

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