# **Arboricultural Survey**

Land at Glynde Station Lacys Hill Glynde BN8 6RX

9<sup>th</sup> July 2019

PJC ref: 5272/19-01 Rev -



# This report has been prepared by PJC Consultancy Ltd on behalf of Harringtons Lettings

#### Prepared

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by

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#### 1 INTRODUCTION

- 1.1 **Instruction:** PJC Consultancy has been instructed by Harringtons Lettings to provide an initial arboricultural survey of Land at Glynde Station, Lacys Hill, Glynde. The survey is to be undertaken in accordance with BS5837: 2012 '*Trees in relation to design, demolition and construction Recommendations*'.
- 1.2 Survey objectives: This survey has been undertaken with the following objectives:
  - To record a schedule of significant trees (dimensions and locations) situated at the prospective development site.
  - To assess the quality and value of the existing tree stock in terms of arboricultural, landscape, historical/conservation, or public amenity value.
  - To provide information relating to planning constraints that may restrict works to trees at the site.
  - To provide an assessment of the material constraints posed by the existing tree stock on potential future developments at the site.
  - To aid the design process, ensuring prospective developments integrate appropriately with the existing tree stock, to maximise the potential of the proposed development site.
- 1.3 **Scope of this report:** This report is concerned with all significant trees and arboricultural features located within the site boundary. Additionally, trees located around the curtilage of the site have also been surveyed when they are considered likely to have the potential to impact on the development (in relation to root and crown protection or foundation design).
- 1.4 **Contents of report:** This report includes the following:
  - A summary of the existing tree stock and notable arboricultural features.
  - Tree Constraints Plan in accordance with BS5837: 2012.
  - Tree Survey Schedule containing the relevant measurements and information for each tree or tree group as required in BS5837: 2012.
- 1.5 **Documents and information provided:** The following documents were used to aid the preparation of this report:
  - Drawing ref.: 8731 Topographical Survey (M. J. Zara Associates)

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#### 2 SITE VISIT AND SURVEY METHODOLOGY

- 2.1 **Site visit:** A site visit was carried out on 4<sup>th</sup> July 2019. The weather conditions at the time were clear and bright. The visibility was adequate for visual tree inspection from ground level.
- 2.2 **Tree survey information:** The following information was recorded in the Tree Survey Schedule for each individual tree (average dimensions are recorded for groups):
  - Tree reference number. (T=tree, G=group). Tree numbers suffixed with PA on the Tree Constraints Plan indicate the trees location was not included on the site plan provided so the tree's position is approximate.
  - Species (common and scientific name).
  - Overall tree height (m).
  - Stem diameter (mm) per stem or average diameter for multi-stemmed trees with six or more stems.
  - Branch spread (m) measured to the four cardinal points.
  - Existing height (m) above ground level of lowest significant branch and direction of growth (for individual trees only).
  - Existing height (m) above ground level of canopy.
  - Age class (young, semi mature, early mature, mature, over mature or veteran).
  - Physiological condition (good, fair, poor).
  - Structural condition (good, fair, poor).
  - Comments (general description of tree(s) including any notable features).
  - Preliminary management recommendations (prescriptions for tree management processes based on the current land use and not related to the prospective development).
  - Tree categorisation (see below).
  - Root protection area (m²).
  - Root protection radius (m).
- 2.3 **Tree categorisation:** The condition and value of each tree was evaluated based on the current land use. Each tree or tree group has been awarded either category A, B, C or U and a sub category of either 1,2 or 3 or a combination of the sub categories.
- 2.4 Tree categorisation summary:
  - A Trees of good condition and high arboricultural, landscape or conservation value.
     Must have a potential life span in excess of forty years.
  - B Trees of moderate condition, with minor defects or sub-optimal form but are still
    of modest arboricultural, landscape or conservation value. Must have a potential life
    span in excess of twenty years.
  - C Unremarkable trees of poor condition or form with limited arboricultural, landscape or conservation value, or trees with a stem diameter under 150mm. Must have a potential life span in excess of ten years.
  - U Trees of such impaired condition that they cannot realistically be retained as living trees in the context of the current land use for more than ten years. These trees do not need to be removed if they are not dangerous and do not conflict with the proposed development but should not be considered a constraint to development.

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#### 2.5 Tree sub categorisation summary:

- 1 Trees have mainly arboricultural value, e.g. trees of good condition, form and vitality or rare tree species.
- 2 Trees have mainly landscape value, e.g. trees of landscape prominence, that serve to screen unsightly views or that are required for privacy. Also trees present in groups that attain higher collective rating that they would as individuals.
- 3 Trees with mainly cultural value including conservation, e.g. commemorative trees, trees of historical significance or veteran trees.
- 2.6 Each tree can only be categorised as A, B or C but may comply with more than one sub category. A cascade chart further explaining how tree categorisation is decided is included in Appendix 3.
- 2.7 Root protection areas: A root protection area represents the minimum area of root growth required to support a tree. It is a standardised calculation based on the stem diameter(s) measured at 1.5m and is not necessarily representative of the actual root spread or total rooting area. The formulas used to calculate root protection areas are shown below:

Table 1: Root protection area formulas

For single stemmed trees, root protection areas are calculated as follows:

Root protection area (m<sup>2</sup>) = (stem diameter (mm) x 12)<sup>2</sup> x 
$$\pi$$
 1000

For trees with two to five stems, a combined stem diameter is calculated as follows:

 $\sqrt{\text{(stem diameter 1)}^2 + (\text{stem diameter 2)}^2 \cdots + (\text{stem diameter 5})^2}$ 

For trees with more than five stems, the combined stem diameter is calculated as follows:

 $\sqrt{\text{(mean stem diameter)}^2 \times \text{number of stems}}$ 

- 2.8 The root protection areas are plotted onto the Tree Constraints Plan in Appendix 1 and recorded in the Tree Survey Schedule in Appendix 2. These are represented as a circle on the plan (unless significant rooting constraints are present), and are colour coded depending on the category the tree has been awarded. Where existing site conditions/features are present that are deemed likely to have affected the root morphology, the root protection areas have represented as a polygon of equivalent area.
- 2.9 The proposed layout should avoid level changes or the placement of new buildings and areas of hard surfacing within the root protection areas of retained trees. In certain situations, engineered solutions are available to allow construction within the root protection areas however further input from an arboriculturist should be sought regarding their site-specific viability before these methods are relied upon.

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- 2.10 The disturbance of a tree's root system can result in crown dieback and even death of the tree. Roots are used to support the tree structurally as well as the absorption of moisture and nutrients from the soil. They also act as storage and transport for water and nutrients.
- 2.11 Direct damage such as root severance can lead to ill health, as can compaction of the soil by construction traffic, heavy plant and storage of materials. Changing the nature of the surface above the growing medium, (i.e. from porous to non-porous), can alter the resources available to the tree, which in turn can lead to its decline.
- 2.12 The majority of root growth is usually found within the top 600mm of soil. As such, even shallow disturbance within root protection areas can potentially have a significant impact on the trees.
- 2.13 The root protection areas must be left free from excavation, disturbance and also protected from compaction or contamination during any proposed works. Any construction works within a root protection area required for the proposed layout must be justifiable within an arboricultural impact assessment.
- 2.14 **Limitations of survey:** The survey methodology was restricted to a visual tree assessment from ground level. No tree climbing or ground investigation was carried out for this report. Where existing site constraints are present such as ivy-covered trees, a very dense under-storey, or where trees are located on third party land to which access was not granted, tree dimensions were estimated by eye as accurately as possible.
- 2.15 This survey represents a preliminary overview of the condition and value trees at the site. It is not a detailed assessment of any individual tree and although preliminary management recommendations are included, this report will not be sufficient to be used as a detailed condition and safety survey.
- 2.16 The information and measurements in this report are representative of the date of the site visit. The tree survey data will need to be updated to reflect tree growth and changes in the condition of the trees after prolonged periods.



#### **3 SITE DETAILS AND SURVEY FINDINGS**

3.1 **Site location:** The site is situated directly west of Glynde Station, more broadly; north of the A27 between Lewes and Polegate. It has a central OS national grid reference of TQ 45740 08660. The surrounding land use is comprised of the picturesque country village of Glynde and farmland further afield: Glynde railway station is to its east and the railway line extends along the site's southern boundary. The location of the site within its environs is shown in figure 1.



Figure 1: Location of Site and Environs (Map data: @ 2019 Google)

- 3.2 **Site layout:** The site is accessed via a small road from Lacys Hill that services Glynde Station and The Mill (Spiral Staircase Systems). The site runs approximately east/west; with the site entrance being located at the eastern end of the site, adjacent to Glynde Station. Access to an industrial compound can be gained through the site via a gated palisade fence at the western end.
- 3.3 Appraisal of tree stock: An area of scrub that includes T8, T10, T11 and G14 runs along the northern site boundary. T8, a field maple, is situated just southwest of The Mill and has been categorised B1+2 for its estimated longevity and arboricultural & landscape qualities. A small elder (T10) sits next to an apple (T11) on the track edge of the scrub area. T10 has been categorised as C1 due to its limited merit, while T11 has been categorised as U in reflection of its life expectancy being well below 10 years. At the western end of the scrub area along the northern boundary, G14 is located. This group consists of common plum and field maple. Due to their limited quality and low collective landscape value, they have been categorised as C2.

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- 3.4 G9 (hawthorn), G12 and T13 (both field maple) run along the southern boundary of the site, starting from the dog leg in the boundary line where a neighbouring garden ends. Although these trees do provide some screening from the site to the railway to the south, they are otherwise of limited merit and received categorisations of C1, C2 and C1+2 respectively.
- 3.5 Whilst not within the site or directly along its curtilage, several trees and groups were surveyed on the bank between Lacys Hill and the access road to Glynde Station. These predominantly consisted of Corsican pines (T1, T4 and G5) and field maple (T2, T3 and G6).
- 3.6 Measurements and further information for each tree can be viewed in the Tree Survey Schedule in Appendix 2.
- 3.7 **Tree categorisation summary:** A total of eight trees and six tree groups were surveyed and recorded in the Tree Survey Schedule.

Table 2: Tree categorisation summary

Categorisation	Individual tree	Tree group
Α	1	1
В	2	1
С	4	4
U	1	-
Total	8	6

- 3.8 **Statutory tree protection:** Lewes District Council's Planning Department was contacted via email to establish restrictions to tree works at the site. It was reported on 4<sup>th</sup> July 2019 that no tree preservation order (TPO) protects the trees on this site, however, the site is located within the Glynde Conservation Area.
- 3.9 Any persons proposing to undertake tree works should still check the status of the trees with the local authority and gain the necessary consent before the works are undertaken. Financial penalties and/or criminal proceedings can result if tree works are carried out on a protected tree without consent. The entirety of the tree is protected, both above and below ground.

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#### **4 RECOMMENDATIONS**

- 4.1 Arboricultural input to planning application: To comply with BS5837: 2012, an arboricultural impact assessment should be produced when the proposed layout has been fixed. The arboricultural impact assessment should include a schedule of trees to be retained or removed as well as access facilitation pruning required to enable the construction works. It should also evaluate the likely effects of the construction works on retained trees including post development pressures and provide recommendations on mitigation measures to be implemented.
- 4.2 It is recommended that input is sought from the project arboriculturist into the proposed layout before it is fixed. This will help ensure the proposed layout integrates well with the retained tree stock and will allow potential areas of conflict that may not be identified by non-arboricultural professionals to be rectified whilst the layout is being developed.
- 4.3 The arboricultural impact assessment should be accompanied by an arboricultural method statement and a dimensioned Tree Protection Plan to show how retained trees will be protected during the construction period.
- 4.4 **Arboricultural considerations for proposed layout:** The proposed layout should take into account the following considerations related to trees:
  - The proposed layout should seek to retain higher quality trees, particularly those that cannot easily be replaced. Where tree removal is necessary to facilitate the wider regeneration benefits associated with development, a tree replacement strategy could be implemented to mitigate tree loss. The loss of prominent or high-quality trees, or net loss in tree cover within a development site will not be looked on favourably when determining a planning application.
  - The proposed layout should take into account the root protection areas of retained trees. These should be left free of construction activities including hard landscaping unless the project arboriculturist confirms engineered solutions or sympathetic construction methodology will be a viable option to mitigate the encroachment.
  - The proposed layout should take into account the shade cast by trees. Over-shading of gardens and buildings (notably habitable rooms) can result in future pressures to prune or remove additional trees post development and will be a material consideration for the local authority when determining a planning application.
  - The proposed layout should also take into account other common potential nuisances associated with trees including leaf/fruit drop or honeydew drip (particularly onto footpaths, parking areas or roof guttering) and an over-bearing presence of large trees.
  - Allowance should be made for future canopy growth of both existing and newly
    planted trees. Trees growing in areas of limited space may require regular future
    pruning works. The suitability of different species for regular crown reductions, the
    effect on their amenity value and the cost of future tree works (as well as who would
    be responsible for undertaking the works) should be considered.

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- 4.5 The final design should show service locations and their routing. These are often not specified for outline planning applications; however, their position has the potential to have a significant impact on retained trees and therefore should be noted in the detailed arboricultural method statement that accompanies full planning permission. New utilities should be located outside of the trees root protection areas where they are underground and outside of the anticipated area of mature crown spread where above ground. Sympathetic methodology to enable the installation of services within root protection areas (in certain instances) is available, however there will always be a potential arboricultural impact and arboricultural advice must be sought regarding the suitability of these methods before they are relied upon. If it is achievable the root protection areas should always be avoided.
- 4.6 If further tree planting occurs within the development site, consideration should be given to species selection (in relation to form and potential size) and planting locations to ensure their successful integration into the new development. Recommendations for mitigation tree planting may be included in the arboricultural impact assessment, or a more thorough landscaping strategy may be provided by a landscape designer/architect.



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## **APPENDIX 1**

Tree Constraints Plan

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Root protection area for category A\* tree Root protection area for category B\* tree Root protection area for category C\* tree Root protection area for category U\* tree Tree canopy Site boundary \* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'. Appendix 2, (Tree Survey Schedule) contained within the arboricultural re ref. PJC/5272/19-01 contains further information for each tree. This drawing should be viewed in colour. Tree numbers suffixed with PA indicate the tree position is approximate.

Drawing no: PJC/5272/19/A Rev: - Sheet number: 1 of 1

Client and site: Harringtons Lettings

Land at Glynde Station

Glynde BN8 6RX

Drawing title: Tree Constraints Plan

Date drawn: 8/07/2019

Scale: 1:500 at A3

Drawn by: LR Checked by: PD





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## **APPENDIX 2**

Tree Survey Schedule

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## **Tree Survey Schedule**

Site: Glynde Station

Survey date: 4th July 2019

Surveyor: Lewis Rumsey



Tree ref.	Species	Height (m)	Stem diameter (mm)	Brand sprea (m)		Age e class	Physiological condition	Structural condition	Comments	Preliminary management recommendations	Category grading		Root Protection Radius (m)
T1	Corsican pine (Pinus nigra var.	14	500 estimate	E:	5 Crown: 5 8 west	8 west Mature	Good	Good	Dense ivy on stem. Crown lifted to a height of approximately	Sever and remove ivy from stem.	A1+2	113.1	6.0
	corsicana)		estilliate		6 Branch: 7 10 west				10m. Third party tree.	Stern.			
Т2	Field maple (Acer campestre)	5	200 estimate	E: S:	<ul><li>2 Crown:</li><li>2 0 averge</li><li>2 Branch:</li><li>2 0 averge</li></ul>	mature	Good	Good	Located along road edge amid G6. Third party tree.	No action required at time of survey.	C2	18.1	2.4
Т3	Field maple (Acer campestre)	8	300 estimate	E: S:	3 Crown: 3 0 averge 3 Branch: 3 0 averge	mature	Good	Good	Located along road edge amid G6. Third party tree.	No action required at time of survey.	C2	40.7	3.6
Т4	Corsican pine (Pinus nigra var. corsicana)	8	350 estimate	S:	1 Crown: 5 5 west 4 Branch: 2 5 west	Semi- mature	Fair	Good	Dense ivy on stem. Some decline of crown and deadwood over Lacys Hill. Third party tree.	Sever and remove ivy from stem.	B2	55.4	4.2
<b>G</b> 5	Corsican pine (Pinus nigra var. corsicana)	Up to	630 average	As showing on pla	average	Semi- mature	Good	Good	Previously crown lifted. Dieback in crowns due to group pressures. Dense ivy on stems. Third party trees.	Sever and remove ivy from stem.	A2	179.6 average	7.6 average
G6	Field maple (Acer campestre)	Up to 7	100 average	As showi	•	Semi- mature	Good	Good	Scrub group on bank between Lacys Hill and Glynde station car park. Third party trees.	No action required at time of survey.	C2	4.5 average	1.2 average

## **Tree Survey Schedule**

Site: Glynde Station

Survey date: 4th July 2019

Surveyor: Lewis Rumsey



Tree ref.	Species	Height (m)	Stem diameter (mm)	Bran spre (m	ad	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Preliminary management recommendations	Category grading		Root Protection Radius (m)
G7	Mixed species	Up to 15	250 average	As show on pl	vn	0 averge	Semi- mature - Early- mature	Good - Fair	Good	Mixed group including elm, hawthorn and pine. One dead elm specimen. Scrub understory. Ivy on stems. Third party trees.	Sever and remove ivy from stem. Fell dead elm and monitor others for signs of decline.	B2	28.3 aveage	3.0 average
Т8	Field maple (Acer campestre)	10	300, 300 estimate	N: E: S: W:	5 5 5 5	Crown: 0 averge Branch: 0 averge	Early- mature	Good	Good	Dense undergrowth inhibited closer inspection. No major visible defects.	No action required at time of survey.	B1+2	81.4 as ammended on tree constraint s plan	5.1 as ammended on tree constraints plan
G9	Hawthorn (Cratageous monogyna)	4	up to 210 average	N: E: S: W:	2	Crown: 1 average Branch: 1 average	Semi- mature	Good	Good	Multistem at base. Crown cut back to edge of track.	No action required at time of survey.	C1	20.0 average	2.5 average
T10	Elder (Sambucus nigra)	4	120	E: S:	1.5 1.5 1.5 1.5	Crown: 0 averge Branch: 0 averge	Semi- mature	Good	Good	No major visible defects.	No action required at time of survey.	C1	6.5	1.4
T11	Apple (Malus spp.)	4	200 estimate	N: E: S: W:	2 2 1 3	Crown: 2 average Branch: 1 east	Dead	Dead/dying	Poor	Dead/dying specimen.	Fell if frequency of target area increases.	U	18.1	2.4
G12	Hawthorn (Cratageous monogyna)	6.5	291.5 combined average	N: E: S: W:	2 3 3 3	0 south	Semi- mature - Mature	Good	Good	Multistemmed group. Typical growth habit. Crowns cut back to track edge.	No action required at time of survey.	C2	38.5 average	3.5 average

## **Tree Survey Schedule**

Site: Glynde Station

Survey date: 4th July 2019

Surveyor: Lewis Rumsey



	ree ef.	Species	Height (m)	Stem diameter (mm)		nch ead n)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Preliminary management recommendations	Category grading		Root Protection Radius (m)
Т	<sup>-</sup> 13	Field maple (Acer campestre)	8.5	260	N: E: S: W:	3 5 4 1	Crown: 2 south Branch: 3 east	Early- mature	Good	Good	Leans to east. Rubble at base.  Crown lifted over track.  Epicormic growth on stem.	No action required at time of survey.	C1+2	30.6	3.1
G	<b>3</b> 14	Field maple and common plum	9 average	297 average	N: E: S: W:	4 3 4 3	0 averge	Early- mature	Good	Good	Behind delapidated strained wire fence. Linear group.	No action required at time of survey.	C2	39.9 average	3.6 average



## **APPENDIX 3**

Cascade Chart for Tree Quality Assessment

**PJC Ref:** PJC/5272/19-01 Rev -



# Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where approp	oriate)		Identification on plan				
Trees unsuitable for retention Category U Those in such a condition that they cannot realistically be retained as living trees in the context of their current land use for longer than 10 years.	<ul> <li>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after the removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning).</li> <li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.</li> <li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality.</li> <li>Note Category U trees can have existing or potential conservation value which it might be desirable to preserve</li> </ul>							
	1 Mainly arboricultural qualities 2 Mainly landscape qualities 3 Mainly cultural values, including conservation							
Trees to be considered for retention								
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years.	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue).	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	Green				
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees with material conservation or other cultural value.	Blue				
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits.	Trees with no material conservation or other cultural value.	Grey				



**APPENDIX 4** Photographs



Photograph 1 - T1



Photograph 2 - G5





Photograph 3 - From the site entrance looking west.



Photograph 4 - G9 looking east towards the site entrance.





Photograph 5 - G12 (with T13).



Photograph 6 - G14





Photograph 7 - Western end of the site.