# BS5837:2005 Tree Survey Report, incorporating Arboricultural Implications Assessment and Method Statement

In support of an application for a docking station on the carriageway adjacent to:

The British Museum, Montague Street, WC1

Site Ref: 02/610248 Status: FINAL Date: 6 May 2009

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### **SUMMARY AND OVERVIEW**

Transport for London has been tasked with coordinating the implementation of a comprehensive Cycle Hire Scheme within London. The Cycle Hire Scheme requires the installation of a network of about 400 docking stations in nine central London boroughs. The Cycle Hire Scheme is planned to be operational by May 2010.

This Tree Survey Report relates to the installation of a single docking station on the carriageway within Montague Street, WC1, and supports the application for full planning permission. It presents the results of an arboricultural survey conducted to BS5837:2005, along with an *Arboricultural Implications Assessment* and an *Arboricultural Method Statement*. The survey was undertaken by Cresswell Associates (a Hyder Consulting Group company) on behalf of Transport for London.

The proposed docking station (hereafter referred to as 'the Site') is located within the Root Protection Area of three trees, located on third party land on either side of Montague Street. Full details of these trees are included in the Tree Data Schedule (Appendix 3).

The Tree Implications Table in Section 5.2 sets out the likely implications of different docking station foundation designs on trees adjacent to the development. The Site is located within the outer half of the Root Protection Area of all four trees. However the impacts upon all trees are likely to be minimal as a result of site conditions, particularly:

- The location of T1 within the grounds of the British Museum, approximately 1m above the level of the Site, and behind a wide stone retaining wall acting as a barrier to root spread to the east, in the direction of the site. The most favourable rooting conditions for this tree also occur away from the site, within the British Museum grounds.
- T2, T3 and T4 being located on the opposite side of Montague Street, at a
  distance of approximately 10m from the closest part of the Site, and with the
  most favourable rooting conditions located away from the Site, within private
  gardens to the north-east.
- The unfavourable rooting environment immediately beneath the road surface, within the maximum depth of excavation (350mm below current carriageway surface).

No remedial pruning works are necessary in order to facilitate the use of machinery during construction works, and the stems of all four trees are adequately protected owing to their position behind permanent railings abutting the footway

Assuming that the measures outlined in the Arboricultural Method Statement are adopted, it is considered that the proposed docking station would not detrimentally impact on trees within the vicinity of the development.

#### 1 INTRODUCTION

# 1.1 Background and instructions

Hyder Consulting (UK) Limited have been instructed by Transport for London (TfL) to conduct an Arboricultural Survey at the site of a proposed Cycle Hire Scheme docking station on the carriageway adjacent to the University of London Commonwealth Hall at Cartwright Gardens, WC1, and to produce the findings in a report. The report also includes an *Arboricultural Implications Assessment* (AIA) and an *Arboricultural Method Statement* (AMS).

Surveys have been undertaken with reference to a supplied plan, showing the location and extent of the proposed development (the 'General Arrangement', drawing number: TE596Pl0085-GA Rev C, provided by TfL). Tree positions have been plotted in accordance with this plan. Where site survey has identified additional trees, the locations of these have been plotted on the Tree Constraints Plan (Appendix 4) using measurements taken on site.

# 1.2 Scope and purpose of the report

This report is designed to accompany a planning application for the installation of a single Cycle Hire Scheme docking station at the Site. Its purpose is to assist and inform the planning process according to guidelines laid out in BS5837:2005 'Trees in relation to construction – recommendations' (BSi, 2005).

Trees located on or adjacent to the Site have been surveyed where either:

the *Root Protection Area* (RPA) of the tree is located within or immediately adjacent to the footprint of the development, or

young plantings occur immediately adjacent to the Site, which have the potential to affect the proposed docking station as they grow and their root systems develop.

All young plantings have been surveyed, including those with a stem diameter below 75mm.

### 2 TREE SURVEY METHODOLOGY

### 2.1 Date of survey

This report is based on a visual inspection carried out from the ground on 16 April 2009.

# 2.2 Survey methodology

The tree survey included all trees with the potential to be affected by the proposed development, as detailed in Section 1.2. Trees were visually surveyed from ground level using the *Visual Tree Assessment* (VTA) technique developed by Mattheck and Broeler (1994). No climbed inspections or specialist decay detection was undertaken.

In line with the approach recommended in BS5837:2005, the following data was gathered for each tree surveyed:

- Tree number
- Tree species (botanical names follow Stace (1997) for higher plants)
- Age (expressed as an age class category)
- Tree height (in metres)
- Crown height (height of crown clearance above ground in metres)
- Stem diameter (measured at 1.5 metres above ground level)
- Crown spread (measured in north, south, east and west directions)
- Observations on tree position, form, pruning history and any major defects observed
- Recommendations for arboricultural works, along with a priority rating for completion of these works
- Tree physiological and structural condition
- Life expectancy (expressed as one of four categories)
- BS5837 retention category

In addition, a further two categories provide exclusion distances (measured from the centre of the tree stem, as a radius). These are:

- The NJUG Prohibited Zone (NJUG, 2007)
- The Hyder recommended 'no excavation zone'

The Hyder recommended 'no excavation zone' takes into account the size of the tree, any major visible roots or ground-heave close to the stem, and the nature of the proposed development, in order to set a recommended minimum distance (from the centre of the tree stem) to any below-ground excavation.

All trees surveyed have been plotted on the Tree Constraints Plan (Appendix 4) and their data recorded in detail within the Tree Data Schedule (Appendix 3). A total of 4 trees were surveyed in relation to the Site. An explanation of the categories and definitions used in producing the Tree Data Schedule is provided in Appendix 1.

A desk study was carried out to investigate the presence of any Tree Preservation Orders (TPOs) on trees located on private land.

#### 2.3 Limitations

This tree survey has been undertaken with specific reference to the planning submission requirements pertaining to the Cycle Hire Scheme. As such, this report makes no attempt to provide a full safety inspection of the trees surveyed. It should not be seen as a substitute for a Tree Safety Survey or Management Plan, which are specifically designed to minimise risk and liability associated with responsibility for trees. Potentially hazardous trees have been highlighted and appropriate recommendations made only where urgent action is required in the interests of public safety.

Where trees were located on third party land, detailed inspection using the VTA methodology outlined above was not possible. In these instances, measurements of stem diameter and crown spread have been estimated, and the RPA plotted accordingly.

Whilst every effort has been made to detect any major defects in inspected trees, no guarantee can be given as to the safety or otherwise of individual trees. Climatic conditions including storms, drought and temperature-related factors can, and do, cause damage and/or failure in apparently healthy trees.

#### 3 SITE OVERVIEW

The Site is located on the carriageway within Montague Street, WC1. Adjacent to the carriageway is a paved footway, beyond which is a wide stone retaining wall topped with a permanent iron railing fence. This forms the boundary with the grounds of the British Museum, where a mature London Plane (*Platanus* x *hispanica*) is situated approximately 1m above the level of the Site.

Opposite the site, on the far side of Montague Street, is a private planted area adjacent to the footway. Three mature London Plane trees also occur in this planted area, again protected from the footway and carriageway by a permanent iron railing fence. These represent the only trees surveyed in connection with the proposed development.

#### 4 RESULTS OF TREE SURVEY AND RECOMMENDATIONS

#### 4.1 Tree Data Schedule

The Tree Data Schedule is included as Appendix 3 which displays the information gathered for these trees.

# 4.2 Tree protection status

On 1 May 2009, we were informed, by Tom Little of the London Borough of Camden that:

- Trees T2 and T3 are protected by a Tree Preservation Order (ref: C5)
- Trees T1-T4 are located within the Bloomsbury Conservation Area

#### 4.3 Tree condition and recommendations

A significant cavity was observed in T2 at approximately 10m height. A climbed inspection is recommended in order to further investigate this defect.

The presence of Ivy (*Hedera helix*) on the stem of T3 prevented detailed inspection. It is recommended to remove the Ivy and inspect the stem for defects.

All trees were located on third party land, and so a detailed inspection could not be undertaken due to access. No other arboricultural works have been recommended.

### 5 ARBORICULTURAL IMPLICATIONS ASSESSMENT

# 5.1 Design proposals

The proposal for the site is to construct a Cycle Hire Scheme docking station, incorporating a terminal and a number of docking points. Both the terminal and the docking points are incorporated into a single area, measuring approximately 30 metres in length and 2 metres in width. The location of this area, together with the location of the proposed terminal is shown on the Tree Constraints Plan (Appendix 4).

# 5.2 Tree Implications Table

The Tree Implications Table shows the potential implications of different construction methodologies on individual trees adjacent to the Site. This has been developed as a result of consultation with the Special Projects design team at TfL. It provides a standardised approach across all Cycle Hire Scheme sites, allowing rapid appraisal of the implications of alternative foundation solutions in the vicinity of existing trees.

Docking Point Design	T1	T2	Т3	Т4
Excavated trench 350mm max. depth	Minimal	Minimal	Minimal	None
Excavated trench 250mm max. depth	None	None	None	None
Surface only excavation or bolt-on design	None	None	None	None
Foundation for the Terminal*	None	None	None	None

<sup>\*</sup>Based on an excavation of 450mm x 450mm x 450mm below finished ground level.

**Major** implications include: (i) impacts of a magnitude which may significantly affect the health and survival of the tree, either in the short- or long-term, or (ii) impacts which may result in significant structural damage to the tree, such that the tree may be rendered unsafe. Example: severance of a major root in close proximity to the stem.

**Moderate** implications are defined as impacts which may result in impaired vigour in the short-term, but which are unlikely to significantly affect the long-term health and survival of the tree. Example: severance of secondary roots within a restricted area inside the RPA of the tree.

**Minimal** implications are defined as impacts from which the tree is likely to easily recover within a short space of time. Example: loss of minor roots at the extreme edge of the RPA, on one side only.

### 5.3 Summary of Tree Implications

The Tree Constraints Plan (Appendix 4) shows the location of T1, T2, T3 and T4 in relation to the proposed development. As the plan indicates, the proposed docking station is located beyond the RPA of T4, and on the outer edge of the RPA of trees T2 and T3. These trees are therefore unlikely to be affected by the proposals, due to:

- their location on the opposite side of the road from the Site, at a distance of approximately 10 metres at the closest point;
- the most favourable rooting conditions being located away from the Site, to the north and east, within the planted area adjacent to the footway, along with the private gardens immediately east;
- the very poor rooting conditions expected within the maximum depth of excavation (350mm below the existing level of the carriageway, in order to achieve a finished height level with the existing footway, 100mm above); and therefore
- the likely presence of only very minor, if any, tree roots within the Site.

T1 is located within the grounds of the British Museum, approximately 1m above the level of the Site, and behind a wide stone retaining wall acting as a barrier to root spread to the east, in the direction of the Site. The most favourable rooting conditions for this tree also occur above and away from the site, within the British Museum grounds. Accordingly, only very minor, if any, tree roots associated with T1 are expected within the \$\frac{1}{2}\$ite, and any implications for this tree are likely to be minimal.

# 5.4 Implications of general construction activity

Tree protection measures are specified throughout Section 6 that will ensure that the impact of general construction activity shall be minimal. It is imperative that all site personnel, including temporary contractors, are made aware of the Arboricultural Method Statement (Section 6), and the restrictions which apply.

# 5.5 Implications of tree pruning

No pruning works are required to facilitate the proposed development.

# 5.6 Implications of ground level changes and surfaces

The finished ground levels will be at the level of the existing footway, approximately 100mm above the existing carriageway. There shall be minimal impact on rooting conditions from the increase in ground level, since the existing tarmac surface of the carriageway currently represents an impermeable barrier to water, oxygen and nutrients.

# 5.7 Implications of underground services

It is understood that it is proposed to connect to existing services within or adjacent to the Site. If additional trenching is required outside of the Site, it should be routed from the south of the Site, thereby avoiding the RPAs of all trees. The exact position of services should be agreed with the local authority, and installation engineers should be made

aware of the need to keep trenches outside of RPAs. Where this is not possible arboricultural advice should be sought so that the impact may be assessed prior to trenches being excavated.

#### 5.8 Construction exclusion zones

The NJUG Prohibited Zones for all trees surveyed occur within third party land, behind permanent iron fences which provide suitable protection for the stems of all trees. The crown height of T1 is some 7m above the level of the Site, and no fencing has therefore been specified in order to protect the primary branches (see section 6.3). The existing hard surfacing shall be retained over RPAs outside the Site, which shall provide sufficient protection for tree roots.

# 5.9 Implications of retained trees on the proposals

All four trees are mature specimens located some distance from the Site. As such, they are unlikely to impact on the proposal as a result of any future growth.

#### 6 ARBORICULTURAL METHOD STATEMENT

#### 6.1 Overview

This section of the report details the tree protection measures to be adopted in order to protect the trees that are to be retained. The methodology should be discussed and agreed between the local authority tree officer, TfL, and the building contractor. Any parts of the methodology which are deemed to be inaccurate or unworkable should be highlighted and addressed at an early stage, ideally before construction commences.

#### 6.2 Pre-construction tree works

No pre-construction tree works have been recommended.

### 6.3 Tree fencing and protective measures

No tree fencing or other protective measures are required due to the location of all four trees on third party land behind permanent iron railing fences.

### 6.4 Site fencing and site preparation

It may be necessary to fence off the site in order to make it secure and safe. No tree constraints exist in connection with the installation of site fencing, provided that either nodig fencing is installed, or ground pins are used to secure site fencing to the ground where required.

#### 6.5 Removal of surfaces

No significant arboricultural impact is expected and the removal of existing surfaces within the Site (if required) can proceed without recourse to specific tree protection measures other than those specified in Section 6.8.

#### 6.6 Excavation

No significant arboricultural impact is expected and excavation within the Site can proceed without recourse to specific tree protection measures other than those specified below, and in Section 6.8.

Since: (i) ground excavation is required within the RPAs of T1, T2 and T3, and (ii) T2 and T3 are protected by a Tree Preservation Order (TPO C5), all excavation work should proceed with caution, looking out for any tree roots which may be located within the Site. Should roots below 25mm in diameter be encountered, these should be retained undamaged wherever possible, and protected from desiccation by damp hessian sacking or a similar protective material. Roots below 10mm diameter should be trimmed back neatly in line with the edge of the excavation trench using secateurs. Should any roots over 25mm diameter be exposed, excavation works should cease immediately and an arboricultural consultant called to the Site for a professional judgement.

### 6.7 Installation and hazardous materials

Any mixing of cement based materials is to take place outside the RPA. Provision shall be made to ensure that the mixing area is contained so that no water runoff enters the RPAs of any trees. All mixers and barrows shall be cleaned within this dedicated mixing area.

All other chemicals hazardous to tree health, including petrol and diesel are to be stored in suitable containers as specified by COSHH Regulations 2002, and kept away from the RPAs.

# 6.8 General construction activity

The stem and branches of all trees are adequately protected from the impacts of general construction activity (such as materials storage) as a result of their location behind an iron railing fence on third party land. However, since a proportion of the smaller branches of T1 are located directly above the Site, the Clerk of Works shall ensure that all machinery operatives are made aware of the necessity to avoid contact with all branches and stems during construction works.

# 6.9 Removal of fencing

No protective tree fencing has been specified.

#### 6.10 Clerk of Works

A Clerk of Works will be appointed by TfL to oversee the installation of all Cycle Hire Scheme docking stations. Prior to the commencement of any on-site activities, the Clerk of Works will be fully briefed on all potential arboricultural issues by the consultant arboriculturalist. The Clerk of Works will ensure that the specified tree protection measures are implemented, and that all activities are conducted in accordance with the Arboricultural Impact Assessment and Arboricultural Method Statement.

### 7 REFERENCES

British Standards Institution (2005) BS5837:2005 Trees in relation to construction – Recommendations. BSi, London, UK.

Mattheck, C. and Broeler, H. (1994) *The Body Language of Trees: A Handbook for Failure Analysis*. Research for Amenity Trees No.4. DETR, London, UK.

NJUG (2007) NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees. Volume 4: Issue 2. The National Joint Utilities Group, London, UK.

Stace, C. (1997) *New Flora of the British Isles* (Second Edition). Cambridge University Press, Cambridge, UK.

#### 8 APPENDICES

Appendix 1: Explanation of Terms

Appendix 2: Authors Qualifications and Experience

Appendix 3: Tree Data Schedule

Appendix 4: Tree Constraints Plan

### **APPENDIX 1: EXPLANATION OF TERMS**

#### Numbering

Each tree, group of trees or hedgerow is given an individual reference, made up of sequential numbers prefixed by a letter where:

T= Individual Tree, G = Group of trees, W = Woodland block, H = Hedge.

#### **Species**

Tree names and other plant names follow Stace (1997) and are provided as Common (English) species names.

#### Age Class

Trees are assigned to one of five age classes as follows:

Young	Tree in establishment stage, normally up to 10 years old						
Semi-mature	Establishing tree with potential for significant growth both in terms of tree height and crown spread.						
Early-mature	Established tree, typically having attained at least 70% of likely mature height and crown spread						
Mature	Approximate full height and crown spread attained						
Over-mature	Extensive decline in physiological functions and/or structural integrity						
Veteran	A tree that shows features of biological, cultural or aesthetic value that are characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species.						

#### Crown Height

Height of crown clearance above adjacent ground level in metres. Where this varies around the canopy, the height closest to the Site is recorded.

#### Stem Diameter

Measured in centimetres at 1.5m above ground level (Diameter at Breast Height [DBH]). On multi-stemmed trees this measurement is taken immediately above the root flare of the tree.

#### **Crown Spread**

Radial crown spread measured in four compass directions (north, south east, and west) using magnetic north.

#### Notes

This section provides details, where relevant, pertaining to the tree's position, form, pruning history and an account of any significant defects observed. Any access restrictions are also noted here.

#### Recommendations

These are normally based upon remedial action to address any observed major defects. These may be recommended for tree safety reasons, or for reasons of good arboricultural practice and tree management.

### **Priority Scale**

A priority is assigned to any works recommended in the preceding section as follows:

Urgent	Works should be carried out immediately, within 1 week maximum
Very High	To be carried out within 1 month
High	To be carried out within 3 months
Moderate	To be carried out within 1 year
Low	To be carried out within 4 years

### Inspection Frequency

An interval of 6 months, 12 months, 18 months or 3 years has been allocated before the next inspection is due. Seasonal considerations should also be factored in to these guidelines for re-inspection. In summer, tree foliage colour and condition is readily observable. In winter, clear vision into the upper crown junctions may be obtained in those specimens where dense foliage obscures this view during the summer. An autumn inspection should be conducted in cases where fungal infection is suspected, when the fruiting bodies of many fungal species are more likely to be observed.

#### Vigour:

An indication of growth rate and the tree's ability to cope with stresses:

High Having above average vigour.

Moderate Having average vigour.

Low Having below average vigour.

Very Low Tree is struggling to survive and may be dying.

#### **Physiological Condition**

Good	Healthy tree with no symptoms of significant disease
Fair	Tree with early signs of disease, small defects, decreased life expectancy, or evidence of less than average vigour for the species
Poor	Significant disease present, limited life expectancy, or with very low vigour for the species and evidence of physiological stress
Very Poor	Tree is in advanced stages of physiological failure and is dying

#### Structural Condition

Good	No significant structural defects observed					
Fair	Some structural defects observed but these do not necessitate remedial action at present					
Poor	Significant defects observed resulting in a tree which is likely to require either monitoring or remedial action					
Very Poor	Major defects which compromise the safety of the tree. Remedial works or tree removal are likely to be required in the majority of target locations					

#### Amenity Value

Very High Exceptional specimen, observable by a large number of people. High Attractive specimen, observable by a significant number of people.

Moderate One of the above factors is not applicable.

Low Unattractive specimen or largely hidden from view.

### Life Expectancy or Estimated Remaining Contribution (ERC)

The estimated number of years before the tree may require removal is expressed as one of the following categories: (i) <10 years; (ii) 10-20 years; (iii) 20-40 years; (iv) 40+ years.

#### **BS5837 Retention Category**

Each tree, group of trees or hedge is assigned to a retention category where:

Α	Trees of high quality and value, retention is highly desirable
В	Trees of moderate quality and value where retention is desirable
С	Trees of low quality and value, or young trees with a stem diameter <150mm. Category C trees may be retained, replaced or in the case of younger trees, relocated
R	Trees unsuitable for retention or trees which should be removed

Further clarity is supplied by the addition of plus (+) and minus (-) categories where appropriate.

#### APPENDIX 2: AUTHOR'S QUALIFICATIONS AND EXPERIENCE

Dan Gordon-Lee N.Dip. BSc MSc MIEEM M.Arbor.A.

#### Arboriculture

Dan Gordon-Lee is a professional arboriculturalist and ecologist specialising in trees, woodlands and forestry. He holds a current Arboricultural Association/LANTRA Awards certificate in 'Professional Tree Inspection' and has conducted a wide range of tree safety assessments over a period of 10 years. He has over 10 years professional experience in relation to trees and woodlands encompassing technical, strategic, research and practical roles in tree and woodland maintenance and management, tree surgery, and tree safety assessment. His career experience spans the public and private sectors including roles within the Forestry Commission, the National Trust, local authorities and private consultancies.

#### Construction and habitat enhancement

Dan has a wide range of experience working within, and alongside, the construction industry. Between 2001 and 2004 he spent time working within the construction industry and received training in a broad range of practical building skills and construction principles. In his role as a practicing professional arboriculturalist and ecologist, he frequently works closely with major construction companies on all stages of development projects, from design and master planning through to overseeing on-site construction and site clearance works. His experience spans housing, industrial and mixed-use developments, road construction schemes and habitat enhancement programmes.

Reference G=Group H=Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Spr	rown ead (m N	Diagram (m)	535		Recommendations		Vigour  Physiological  Condition	Amenity Value Life Expectancy (yrs)	Prohibited lius (m)	nended 'No on' Zone (m)		
Ref.		Heig	Crow	Diame	W	S	9 0 9				Inspect Freg (yrs)	Structura	Retention		Recomme Excavation'		
T1	Mature London Plane	23	7	90	9	11	25	Position: Form: History:	British museum grounds, raised by 1m. Crown overhangs the footpath and road. Twin-stemmed at 6m with a balanced crown. No evidence of significant pruning.	No action 1	, ,,,	High Good	High 40+	1.6	2.5		
	Platanus x hispanica					••	0	Defects:	No significant defects.	n/a	3	Good	<b>A</b>				
T2	Mature London Plane	25	10	130	10	<b>11</b>	25	Position: Form:	Situated on third party land. Crown overhangs the footpath and road. Single stemmed and vertical with a slightly unbalanced crown.	Climbed inspection needed.		High Good	High 40+	1.8	3		
	Platanus x hispanica					7	0	History: <b>Defects:</b>	No evidence of significant pruning.  Significant cavity at 10m.	Moderate	1.5	Fair	<b>A</b> +				
Т3	Mature London Plane	25	10	115	10	6 1	25	Position: Form: History: Defects:	Situated on third party land. Crown overhangs the footpath and road. Single stemmed and vertical. Occasional pruning wounds due to crown lifting. No significant defects observed.	Remove inspect st defec	em for	High Good	High 40+	1.7	3		
	Platanus x hispanica				9	0		0	(8) (c) (c)	Other:	lvy prevented detailed inspection.	Low	3	Good	A+		
T4	Mature London Plane	24	10	80	12	4	25	Form:	Single stemmed with a slight lean and an unbalanced crown.  Occasional pruning wounds due to crown lifting, (healing well).	No action I	equired.	High Fair	High 40+	1.6	2.5		
	Platanus x hispanica					11	0	Defects:	No significant defects.	n/a	1.5	Fair	<b>A</b> -				

# **APPENDIX 3: TREE DATA SCHEDULE**

