



By Appointment to  
Her Majesty The Queen  
Tree Surgeons  
The F.A. Bartlett Tree Report Co. Ltd

# Bartlett Consulting

Mr Jason Reid (Head Gardener)  
The Honourable Society of Gray's Inn  
8 South Square  
London  
WC1R 5ET

Wednesday 19th December 2012

Our Ref: AP1956R(L)/ss

Dear Mr Reid,

**The Honourable Society of Gray's Inn: Site visit and on-going monitoring of leaning London Plane trees**

I refer to my re-visit to the above site on Thursday 13<sup>th</sup> December 2012 to re-assess the lean of fifteen trees across the grounds of the site.

The Tables on the following pages summarise results from the measurements taken on 13<sup>th</sup> December 2012 and compares these results with the measurements taken back on 21<sup>st</sup> August 2012.

This will help to establish whether these leans are likely to be stabilised or progressive in their nature, tree work recommendations are subsequently given. This also enables a better picture to be obtained relating to the long-term lean and fluctuations experienced by the trees on the site.

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*Table 1: Lean Monitoring Table*

Tree Species	Tree Number	Measured Lean (°) at 21/08/2012	Measured Lean (°) at 18/12/2012	Change (°)	Recommendations
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T600	Not Measured	5.9	No previous measurement to compare with	Re-measure lean, within 3 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T611	1.3	1.3	0.0	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T615	3.0	2.6	-0.4	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T617	5.6	5.7	+0.1	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T618	7.0	6.9	-0.1	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T623	0.3	0.4	+0.1	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T627	6.7	6.8	+0.1	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T628	7.7	7.7	0.0	Re-measure lean within 12 months.



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Lean Monitoring Table (Continued)....

Tree Species	Tree Number	Measured Lean (°) at 21/08/2012	Measured Lean (°) at 18/12/2012	Change (°)	Recommendations
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T629	2.3	3.0	+0.7	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T634	4.4	4.5	+0.1	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T635	Not Measured	4.7	No previous measurement to compare with	Crown reduction by 7.5 metres in height and 2.5 metres in crown spread.  Followed by cyclical crown reduction thereafter, to contain the tree at this reduced height and crown spread.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T636	7.9	8.1	+0.2	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T642	1.1	0.9	-0.2	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T677	6.3	6.3	0.0	Re-measure lean within 12 months.
London Plane <i>Platanus x hispanica</i> , <i>Platanaceae</i>	T678	12.8	12.8	0.0	Re-measure lean within 12 months.

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The above trees all have increases or decreases of lean ranging from  $-0.4^{\circ}$  to  $+0.7^{\circ}$ . Considering this information, all of the movements shown are well within the  $1.0^{\circ}$  threshold regarded as normal seasonal movement or fluctuation.

The only exception to this is the tree T635, where although the lean data is incomplete the previous PICUS Sonic Tomography testing indicated significant level of internal decay around the base of the tree, there were also *Armillaria spp.* fungal fruiting structures observed around the tree base in August 2012, when the inspection and internal decay testing were undertaken. As such I consider this tree to represent a MODERATE risk tree. The recommendations above should be carried out immediately and in accordance with my original report dated 31<sup>st</sup> August 2012.

I consider all of the above trees with the exception of the tree T635, to currently represent a Low risk of failure, however it may be prudent to continue the lean monitoring process annually and ensure that these leans continues to remain stabilised in their nature.

<b>* Interpretations of Risk</b>	<b>(As per Smiley, Fraedrich and Hendrickson 2009)</b>
Critical Risk	Failure imminent: personal injury and/or property inevitable.
High Risk	Failure likely especially during storms: personal injury and/or property damage likely.
Moderate Risk	Failure possible especially during severe storms: personal injury and/or property damage possible.
Low Risk	Failure unlikely: personal injury and/or property damage unlikely.
** Dismantling/surgery risk	Weakened crown anchor points possible, require full risk assessment prior to tree works

I trust you find the above information to be useful, should you have any further queries regarding any of the above points, please feel free to contact me at your convenience.

Yours sincerely,



**Mr. Andrew Potter BSc Hons (For) MICFor M.Arbor.A**  
**Chartered Arboriculturist**

**Senior Arboricultural Consultant**



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