

# Risk Assessment South Hampstead Synagogue Tree Condition Survey

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## Discussion of Risk

Risk has been assessed using the International Society of Arboriculture's (ISA) Tree Risk Assessment Methodology, referred to as TRAQ. This is a qualitative system, which uses a matrix-based combination of ratings to reach a conclusion of associated risk.

Risk is the combination of the 'likelihood' of an event and the severity of the potential consequences. A hazard is a likely source of harm and this case relates to the tree or part of a tree that may fail.

The likelihood of failure considers all structural defects noted within the tree. The overall risk rating for the tree is derived from the tree part presenting the greatest risk.

Likelihood of failure and impact	Consequence of failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Using the matrix above, it is currently considered that the current risk of failure of the Tree of Heaven is moderate.

Please note that adverse weather conditions such as strong winds and heavy rainfall will require that the tree be further surveyed by an Arboriculturist within a minimum of 3 days.

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# Recommendations

## South Hampstead Synagogue

### Tree Condition Survey

#### Work Schedule

The contractor should carry out all tree works to B.S. 3998 Recommendations for Tree Work (2010) and as modified by more recent research. Recommendations are given in order of preference

Recommended works in relation to structural condition	Time scale
Remove the tree	Within 4 months, prior to expected stronger winds in the Autumn months (October). (Please note that adverse weather conditions such as strong winds and heavy rainfall will require that the tree be further surveyed by an Arboriculturist within a minimum of 3 days).
Re-design the planter in accord with the new build and consider suitable replacement planting to compensate for the loss of the tree.	Planter design and installation during construction process. Tree to be planted on completion of build.
<b>Alternatively</b>	
Carry out Static Pull test if the tree is considered structurally sound proceed with following works.	Within 4 months, prior to expected stronger winds in the Autumn months (October).
Reduce crown in height by approximately 4.0 metres and lateral spread to all points by between 2.0 metres.	Regular cycle, frequency dependent on re-growth, preliminary frequency suggested every three years.
Re-design suitable planter to accommodate the tree	New planter design and installation during construction process.
Ensure the use of suitable soils and appropriate soil ameliorants such as Phosphites and biochar to reduce soil borne pathogens and encourage resilient growth	At time of construction

# Appendix 1: Photos South Hampstead Synagogue Tree Condition Survey

Photo 1: Current view of tree



Photo 2: Aerial overview of the position of the tree

