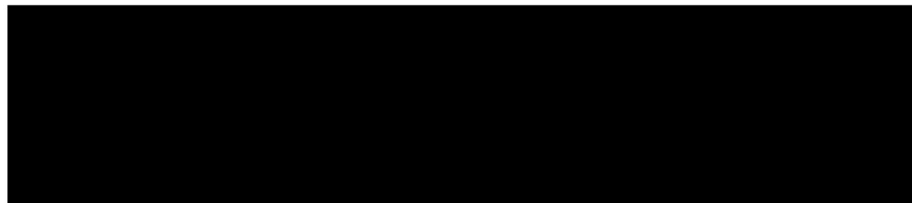


ARBORICULTURAL ASSESSMENT REPORT

For:	Client:	Questgates Ltd
	Insurer:	[REDACTED]
Site:	Policyholder:	[REDACTED]
	Risk Address:	48 Queens Grove, London, NW8 6HH
Refs:	PRI Ref:	[REDACTED]
	Client Ref:	[REDACTED]
	Insurer Ref:	[REDACTED]

Arborist Name:	Sarah MacKinnon	Date:	23/01/2019
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1.0 INTRODUCTION & BRIEF

- 1.1** Property Risk Inspection has been instructed behalf of the building insurers of the insured property. We have been advised that the insured property has suffered differential movement and damage that is considered to have been caused by trees growing adjacent to the property influencing soils beneath its foundations.
- 1.2** We have been instructed to undertake a survey of the vegetation growing adjacent to the insured property in order to provide our opinion as to whether, based on the available information, any of this vegetation is likely to be influencing soil moisture levels beneath the foundations of the property, and if so, to provide recommendations as to what tree management could be implemented to effectively prevent damage continuing.
- 1.3** The vegetation growing adjacent to the risk address has been surveyed from the ground. All distances are measured to the nearest point of the risk address unless otherwise stated.

2.0 LIMITATIONS

- 2.1** Recommendations with respect to tree management are associated with the risk address as stated on the front cover of this report and following consultation with investigating engineers. The survey of trees and any other vegetation is associated with impacts on the risk address subject of this report. Matters of tree health, structural condition, and/or the safety of vegetation under third party control are specifically excluded. Third party land owners are strongly advised to seek their own professional advice as it relates to the health and stability of trees under their control.
- 2.2** Recommendations do not take account of any necessary permission (statutory or otherwise) that must be obtained before proceeding with any tree works.
- 2.3** Recommendations do not take account of any requirements for survey or mitigation relating to European or other protected species, e.g. bird nesting or bats. Land owners must obtain their own professional advice in respect of any protected species.



3.0 DISCUSSION AND ANALYSIS

3.1 Soils, soil water and vegetation

All vegetation requires water to live, and this water is substantially accessed from the soil within which the plants' roots grow.

If the soil is classified as a clay soil, then it will hold very much more water than sands, gravels and loam soils. As plants abstract water from the clay soil, the soil volume will "shrink" and "swell" during the summer as water is first removed and then added by summer rainfall. In years in which rainfall during the summer is less than the total amount of water taken from the soil by plants, shrinkage will occur. This shrinkage may remove support from building foundations, leading to cracking in the fabric of the building.

3.2 Vegetation management

The control of trees, shrubs, and climbers, by removal or pruning as appropriate, are proven techniques that can control total soil water loss thereby minimising soil shrinkage and allowing repairs to proceed.

If vegetation management works are carried out promptly, then repairs can usually proceed very quickly and the duration and distress associated with the disruption that tree related subsidence brings can be minimised.

3.3 Third party liaison and statutory controls

Tree roots do not respect physical or property boundaries and can travel for many metres beyond the above ground "dripline" of the canopy of the vegetation.

The purpose of this report is to ascertain which vegetation is the most likely substantial and/or effective contributory cause of the damage witnessed to allow for liaison with third parties or with local administrative Councils as necessary.

3.4 Evidential framework

The engineer has determined on a preliminary basis the damage to the property, its location and the likely mechanism of movement, and has concluded that the building failure is related to differential subsidence damage caused as a result of the action of vegetation.

Where a factual geotechnical report has been completed, this will describe the below ground foundation design, soil and geotechnical conditions, as well as any root identification where available.



4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Recommendations

On the basis of our findings, we have considered a practical vegetation management specification.

This specification will assist in reducing the impact of the adjacent vegetation on soil moisture levels, thereby potentially stabilising foundations of the affected area of the building.

Where felling has been proposed, this will be on the basis that the vegetation in question would not respond well to a severe reduction in leaf area that would inevitably lead to decay, the development of potential hazards, and an annual or other on-going management commitment and cost.

If pruning is recommended, the specification will be designed to allow continual ease of re-pruning with a reasonable prospect of a reduction in soil water use.

4.2 Recommended vegetation management to address the current subsidence:

Tree No:	Species	Works Required
CG1	Ivy	Fell and treat all Ivy along RH flank of property, and additional 3m to rear, to provide 3m clearance from extension. Approx 15m total length to remove.
T1	Apple (Crab)	Fell and treat stump.
CG2	Ivy	Fell and treat all Ivy.

5.0 STATUTORY CONTROLS

The London Borough of Camden has confirmed that the implicated vegetation is subject to Conservation Area controls.



6.0 APPENDIX 1: TREE TABLES



Tree No	Common Name	Age Class	Condition	Height (m)	Crown Spread (m)	Stem diam. (mm)	Dist to bldg. (m)	Roots Implicated	Pruning history	Recommendation	Tree work constraints	Notes	Owner address	Owner
C1	Wisteria	Mature	Fair	5	3.50	120	3	N	No significant recent management.	No work required.		Appears to be growing through fence from neighbouring side.	Unknown	UKN/ P3P
T1	Apple (Crab)	Mature	Fair	8	8	150	2.3	Y	No significant recent management.	Fell and treat stump.	Access through side/rear gate.		48 Queens Grove London NW8 6HH	PH
T2	Plum	Mature	Fair	8.5	7.0*	120*	10	N	No significant recent management.	No work required.			47 Queens Grove London NW8 6HH	P3P
T3	Pear	Mature	Fair	10	8	350	12.5	N	No significant recent management.	No work required.			48 Queens Grove London NW8 6HH	PH

Tree No	Common Name	Age Class	Condition	Height (m)	Crown Spread (m)	Stem diam. (mm)	Dist to bldg. (m)	Roots Implicated	Pruning history	Recommendation	Tree work constraints	Notes	Owner address	Owner
T4	Pear	Mature	Fair	7	4	350	14.5	N	No significant recent management.	No work required.			48 Queens Grove London NW8 6HH	PH
CG1	Ivy	Mature	Fair	3.7	1.0	5*	1.6	Y	Managed as a climber.	Fell and treat all Ivy along RH flank of property, and additional 3m to rear, to provide 3m clearance from extension. Approx 15m total length to remove.	Access through side/rear gate. Fence required.	Boundary vegetation with stems likely growing both sides of fence. Note 3m from rear is approx same distance as to aucuba shrub. Low brick wall with lattice fence above.	Unknown	UKN
CG2	Ivy	Mature	Fair	3.7	0.2	5*	0.1	Y	Managed as a climber.	Fell and treat all Ivy.	Access through side/rear gate.		48 Queens Grove London NW8 6HH	PH
SG1	Mixed species group	Mature	Fair	1.8	2	10*	1	N	Managed as shrubs.	No work required.		Including box, camellia, aucuba.	48 Queens Grove London NW8 6HH	PH



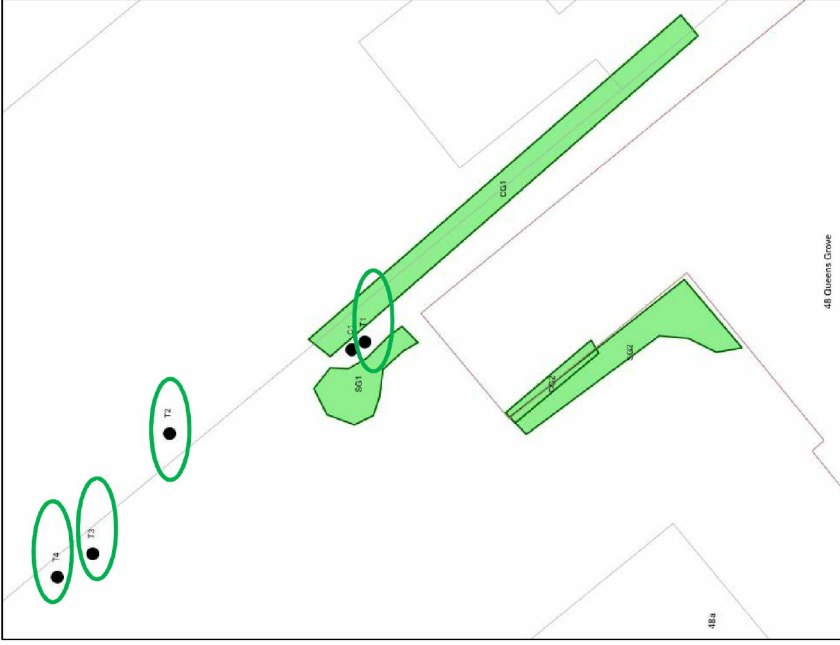
Tree No	Common Name	Age Class	Condition	Height (m)	Crown Spread (m)	Stem diam. (mm)	Dist to bldg. (m)	Roots Implicated	Pruning history	Recommendation	Tree work constraints	Notes	Owner address	Owner
SG2	Mixed species group	Mature	Fair	4.3	2	40*	0.2	N	Managed as shrubs.	No work required.		Including viburnum, euonymous, hydrangea, camellia, rose, box.	48 Queens Grove London NW8 6HH	PH

* Value is estimated

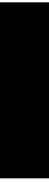


7.0 APPENDIX 2: SITE PLAN





Location:	48 Queens Grove, London, NW8 6HH
Job Ref:	[REDACTED]
Survey Date:	23 rd January 30, 2019 - NTS
By Property Risk Inspection - Insurance Services	[REDACTED]
Crown copyright 2016. License number	[REDACTED]



8.0 APPENDIX 3: SITE PHOTOGRAPHS



	
<p>CG1 - Ivy</p>	<p>T1 -</p>
	
<p>C1 - Wisteria</p>	<p>SG1 - Mixed species group</p>
	
<p>T2 - Plum</p>	<p>T3 - Pear</p>
	
<p>T4 - Pear</p>	<p>CG2 - Ivy</p>
	
<p>SG2 - Mixed species group</p>	

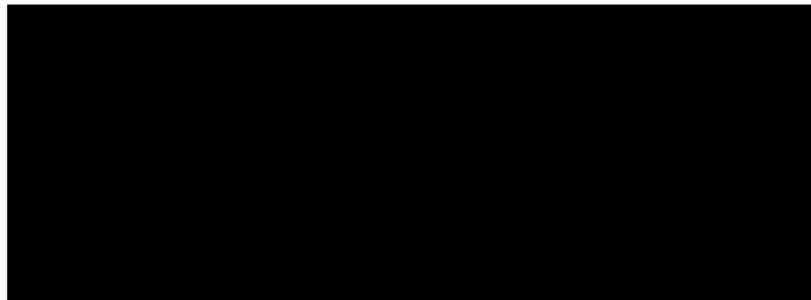
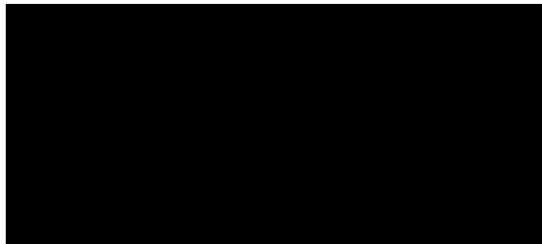




Property Risk Inspection

L I M I T E D

Property Risk Inspection Insurance Services



Property Services



Insurance Services



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Consumer Services



Data Services