Haven Lea,
Close Ln,
Hindley,
Wigan
WN2 3SF

Project Overview

Prepared by: Jordan (Director Wigan Arb Care Ltd)
Position: Arborist
Company: Wigan Arb Care Ltd
Date: 8/11/2024

Customer Information

Purpose of the Report

This impact report aims to evaluate the condition of two trees in the garden—one beech tree and one horse chestnut tree—considering the upcoming construction project. The report assesses potential impacts on the trees based on their health, location, and proposed construction activities.

Tree Details

1. Beech Tree **TPO ID: 04a/99/t2**
Species: Beech (Fagus sylvatica)
Coordinates: 53.7298479, -1.6861120
Distance from Existing Footings: 33 feet
Diameter: 21.5 inches
Height: Approximately 50 feet

Spread: Approximately 20-25 feet
Health Status: Good
Soil pH: 5.5

2. Horse Chestnut Tree. **TPO ID: 04a/99/t3**
Species: Horse Chestnut (Aesculus hippocastanum)
Coordinates: 53.7298740, -1.6862294
Distance from Existing Footings: 42 feet
Diameter: 31.5 inches
Height: Approximately 50 feet
Spread: Approximately 20-25 feet
Health Status: Needs Attention (initial signs of bark damage)

Assessment of Potential Impacts

1. Proximity to Construction

Beech Tree: Positioned 33 feet from the existing footings, the beech tree is well within a safe distance from the construction activities, which are focused on replacing the existing building without altering the existing footings.

Horse Chestnut Tree: At a distance of 42 feet from the footings, the horse chestnut tree is even less likely to be affected by the construction work.

Note: As the construction plan does not involve altering the existing foundations, there will be minimal impact on both trees, particularly their root systems.

2. Tree Health and Condition

Beech Tree: The beech tree is currently in good health, indicating it should remain unaffected by the construction procedures.

Horse Chestnut Tree: In early stages of bark damage, this tree will require further observance and possibly intervention to ensure its long-term health and stability.

3. Root Spread Estimates

The root systems of trees can extend outward significantly. General guidelines suggest that:

1. **Beech Tree**:

   - Estimated Root Spread: **75 to 100 feet** (based on a height of approximately 50 feet).

2. **Horse Chestnut Tree**:

  - Estimated Root Spread: **75 to 100 feet** (also based on a height of approximately 50 feet).

Important Notes

- These figures are approximations and can vary based on environmental conditions and specific growing circumstances.
- Most of a tree's root mass is typically found in the top 12 to 18 inches of soil, despite extensive lateral growth.

Recommendations

1. **Monitoring for Horse Chestnut Tree**: Due to early signs of bark damage, it is advisable to implement a care plan and monitor its health periodically.

2. **Protection Measures**: Although there is minimal risk to both trees, establishing protective hardware or barriers around their bases during construction is recommended to safeguard against accidental damage.

3. **Soil Management**: Maintain soil quality around both trees, avoiding compaction or soil disturbance to protect root health.

4. **Post-Construction Evaluation**: After the construction project, a thorough assessment of both trees should be conducted to identify any emerging health issues.

Conclusion

The proximity of both the beech and horse chestnut trees to the construction site indicates they will not be adversely affected by the planned activities. Since the existing footings will not be altered as part of the upgrade, there will be no significant impact on the root systems of either tree.

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