

Assessment

84 Chalmers St N Cambridge, ON

Location: Boulevard Tree/City Property

Silver Maple/Acer saccharinum

Not recommended for tree preservation as tree is in decline/senescence with zero to no management plan from city.

1. increments of growth are 50% to 70% less than typical of a moderately vigorous tree
2. Crown subsidence in upper 30% of crown/tip dieback
3. 40-50% decayed wood/cavity/hollow observed through standard 'sounding techniques
4. Live growth of conducting tissue and structural supporting wood is approximately less than 50% typical due to soil and root incompatibility with concrete/asphalt/infrastructure
5. Root zone impact for property development will most likely contribute to tree mortality
6. Tree is in substantial decline due to poor root zone environment i.e. compacted, impermeability, lack of organic matter, soil water, air and nutrients and poor soil biome
7. Construction root zone impact will also contribute to tree mortality. One must consider future infrastructure maintenance and the proposed development impact.
8. Future City infrastructure maintenance should also be considered i.e. sidewalk, road, water, sewer, gas and hydro maintenance will contribute to tree mortality
9. Tree preservation in this case would be considered a loss of resources.
10. Signs of weak wood growth are inclusion/occlusion/stress fracture from torsion loading. An imbalance in wood growth response to canopy/sail/loading are key.
11. Impacted root floor with root flare impeded/necrotic/compressed and damaged conductive cells
12. Hollows, hollow sounding root flare/root plate
13. The City of Cambridge, if interested in preserving the tree should **first** address the sidewalk damage at the foundation of tree i.e. the main supporting structure of tree preventing whole tree failure
14. Stem has visible cavities and hollows

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