

September 5, 2018

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Re: Tree Conservation Report - 3604 Innes Road, Ottawa

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted property in Ottawa. The need for this TCR is related to the proposed construction of a car wash and associated parking, vacuum stations and landscaping. The majority of the subject property is presently covered by an asphalt surface related to a previous use. A chain link fence bisects the property. West of the fence is a cultural meadow with scattered naturalized and invasive tree species. Further west, a hedgerow of mature mainly native trees is located on or directly adjacent to the property line shared with 3490 and 3592 Innes Road.

The need for this report is related to trees protected under the Urban Tree Conservation By-law 2009-200 and the Municipal Trees and Natural Areas Protection By-law 2006-279. Tree conservation reports are required for all site plan control applications on properties where there is a tree of 10 centimetres in diameter or greater. The approval of this TCR by the City of Ottawa and the issuing of a permit by them authorize the removal of approved trees. **Importantly, although this report may be used to support the application for a City tree removal permit, it does not by itself constitute permission to remove trees or begin site clearing activities. No such work should occur before a tree removal permit is issued by the City of Ottawa. Further, any shared trees or trees located on adjacent properties will require permission from neighbouring owners prior to removal.**

The tree inventory and assessment detailed in this report concerns all trees on and directly adjacent to the subject property. The field work for this report was completed on August 7, 2018.

The majority of existing trees fully on the subject property will be removed prior to the start of construction. This is due to the large footprint of the proposed new development, the proposed setback of 0.56m from the property line and the generally poor health and species present. Trees on or shared with adjacent private properties will be retained unless permission for their removal is obtained by the affected land owners. No trees were found to be present on City of Ottawa property.

Tree Inventory

The most frequent native tree species present are individual and small groupings of white elm (*Ulmus americana*) and ash (*Fraxinus* spp.). However, many, if not most, of the trees of both species over 10cm are dead due to Dutch elm disease (*Ophiostoma ulmi* and *Ophiostoma novo-ulmi*) and Emerald ash borer (*Agilus planipennis*). Both of these species are well adapted to disturbance and so often respond quickly in terms of recolonizing disturbed sites through seed dispersal from adjacent trees. The nearby hedgerow will have been the source of most of the dispersed seeds.

The most widespread non-native tree species is Manitoba maple (*Acer negundo*), a species now naturalized to Eastern Ontario. Being intolerant of shade this species is found only along the edge of the hedgerow and within the open meadow. Buckthorn species (*Rhamnus cathartica* and *Rhamnus frangula*), both introduced and highly invasive, are present throughout the site. However, all of the individuals present are under 10cm in diameter. The frequent presence of Manitoba maple and buckthorn is predictable as site disturbances in such peri-urban areas encourages the spread of naturalized and invasive species. For this reason neither species is desirable.

Consistent canopy coverage on the subject property is found only in the southernmost and northwest corners. In both locations Manitoba maple is the dominant species. In the northwest corner several overmature willows (*Salix* spp.) are present, with some reaching over 50cm in diameter. Another native species present is basswood (*Tilia americana*). A single white spruce (*Picea glauca*) is also present in the northwest corner. Dead and living ash and elm dominate the southern corner along with dense colonies of staghorn sumac (*Rhus typhina*). In both locations an understory of buckthorn, ash and in more open areas Manitoba maple, is present.

Significant Tree Species, Size, Condition, Ownership and Status

Table 1 below details the species, size (diameter), condition, ownership, age class and status of significant the trees on and adjacent to the subject property. Each tree is referenced by the corresponding numbers plotted on the accompanying landscape plan prepared by Fotenn Planning and Design.

Table 1. Species, size, condition, age class, ownership and status of trees located on and adjacent to 3604 Innes Rd

Tree No.	Tree Species	D.B.H ¹ (cm)	Tree condition, ownership and Status (to be removed or preserved and protected)
1	Willow	55 avg.	Poor; three stems from grade; overmature; shared with 3592 Innes; to be removed
2	Willow	52 avg.	Poor; three stems from grade; overmature; neighbour at 3592 Innes; to be removed
3	Basswood	40 avg.	Fair; two stems from grade; mature; shared with 3592 Innes; to be removed
4	Basswood	27	Fair; mature; shared with 3592 Innes; to be removed

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5	Basswood	33	Fair; mature; neighbour at 3490 Innes; to be preserved and protected
6	Basswood	21 avg.	Fair; ten stems from grade; mature; neighbour at 3490 Innes; to be removed
7	Basswood	17 avg.	Fair; seven stems from grade; mature; neighbour at 3490 Innes; to be removed
8	Sugar maple (<i>Acer saccharum</i>)	16 avg.	Fair; three stems from grade; mature; shared with 3490 Innes; to be removed
9	Bur oak (<i>Quercus macrocarpa</i>)	32 avg.	Fair; two stems from grade; mature; shared with 3490 Innes; to be preserved and protected
10	Bur oak	33	Fair; mature; fully on 3604 Innes; to be preserved and protected

¹ diameter at breast height, or 1.3m from grade, average diameters indicate multi-stemmed trees

Endangered Species

No butternuts (*Juglans cinerea*) were identified on the subject or adjacent properties. This species of tree is listed as threatened under the Province of Ontario's Endangered Species Act (2007) and so is protected from harm.

Tree Preservation and Protection Measures

Preservation and protection measures intended to mitigate damage during construction will be applied for the trees to be retained adjacent to the subject property. The following measures are the minimum required by the City of Ottawa to ensure tree survival during and following construction:

1. Erect a fence at the critical root zone (CRZ¹) of trees;
2. Do not place any material or equipment within the CRZ of the tree;
3. Do not attach any signs, notices or posters to any tree;
4. Do not raise or lower the existing grade within the CRZ without approval;
5. Tunnel or bore when digging within the CRZ of a tree;
6. Do not damage the root system, trunk or branches of any tree;
7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.

¹ The critical root zone (CRZ) is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk Diameter at breast height (DBH). The CRZ is calculated as DBH x 10 cm.

Please do not hesitate to contact me with any questions concerning this tree conservation report.

Yours,

Andrew Boyd

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Picture 1. Mature tree line (background) and cultural meadow at 3604 Innes Road (facing northwestward).



Picture 2. Mature tree line (background) and cultural meadow at 3604 Innes Road (facing southward). Crowns of three oaks to be preserved and protected seen centre-left.



Picture 3. Mature Manitoba maples and understory at northwest corner of 3604 Innes Road.



Picture 4. Maturing Manitoba maples and understory at southern corner of 3604 Innes Road.