



URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

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### **Re: Tree Conservation Report for 1131-1151 Teron Road, Ottawa**

This report details a pre-construction Tree Conservation Plan (TCR) for the above-noted property in Ottawa, Ontario. The need for this TCR is related to the proposed development of the subject property. This TCR has been compiled in accordance with section 4.7 of the City of Ottawa Official Plan, 2007.

The need for this TCR 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. Such reports are required for properties under site plan control applications which are greater than one hectare in area, are located within the urban boundary and on which there are trees 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.**

The inventory in this report details the assessment of groupings and individual trees on the subject property. Field work for this report was completed on July 17 and 19, 2019.

A three-storey apartment building is proposed to replace the single family residence now occupying 1131 Teron Road. An access road linking the new development to March and Teron Roads and a temporary parking lot to the southwest are also proposed (see general site plan (drawing no. A100) prepared by Neuf Architects). The size and location of the proposed development, and the necessary excavation and grade changes, will require most trees in the vicinity be removed prior to the start of construction.

### **METHODOLOGY**

A reconnaissance survey of the property found three vegetative communities: planted or remnant trees in proximity to the residence, a regenerating area below and beside the Hydro zone (right-of-way) which runs west of the subject property and trees planted on City of Ottawa property along March Road. Existing trees were assessed for species, size (average diameter) and general



health condition. This information was then compiled so that stands (areas of similar tree age and species composition) could be broadly delineated. These areas can be found on the accompanying tree conservation plans. Individual trees considered for preservation were determined based on their species, then health condition and size. Once these criteria were met their status as retainable or not was determined in relation to the general site plan.

## **TREE INVENTORY**

The majority of the subject property appears to have been cleared for agricultural purposes prior to the 1960s. It would have been forested before this time. The only remnant of this forested condition is a line of mature trees northeast of the existing residence at 1131 Teron Road. A line of trees has more recently been planted adjacent to the property on City of Ottawa land along March Road to the north. Between these tree lines, in the formerly cultivated field, is a meadow of herbaceous growth interspersed with woody growth – the majority of which is regenerating ash (*Fraxinus* spp.).

Aside from the ash regeneration, the extensive disturbance over the majority of the site has given rise to introduced woody vegetation, in particular Manitoba maple (*Acer negundo*), buckthorn (*Rhamnus* spp.) and lesser amounts of Amur maple (*Acer tataricum* var. *ginnala*) and Siberian elm (*Ulmus pumila*). Also frequently present are native white elm (*Ulmus americana*).

In terms of diseases and pests, some elms are dead or declining due to Dutch elm disease (*Ophiostoma ulmi* and *Ophiostoma novo-ulmi*) infections and many ash are either dead or showing signs of Emerald ash borer (*Agrilus planipennis*) infestations. Table 1 below details the species composition in this area:

Table 1. Tree inventory of 1131 Teron Road

<b>Tree species</b>	<b>Average Diameter(cm)</b>	<b>Percent occupancy<sup>1</sup></b>
Ash	8	63
White elm	14	16
Buckthorn	4	9
Manitoba maple	12	7
Serviceberry ( <i>Amelanchier</i> spp.)	5	2
Amur maple	2	2
Siberian elm	14	1

<sup>1</sup> by stem count, not area

Ash and elm trees are well adapted to disturbance and so often respond quickly in terms of recolonizing such sites through seed dispersal. Manitoba maple is a frequent urban and peri-urban species which was not present pre-settlement but now is naturalized throughout Eastern Ontario. Highly invasive buckthorn, both common (*Rhamnus cathartica*) and glossy buckthorn (*Rhamnus frangula*), are present throughout the site. The presence of introduced species is not surprising as site disturbance encourages the spread of non-native (alien), invasive and naturalized species.

Other native vegetation on the site consists of lower growing tree and shrub species: serviceberry, staghorn sumac (*Rhus typhina*)- which has colonized large areas , red-osier dogwood (*Cornus stolonifera*) and scrub willow (*Salix* spp.). These species have been able to successfully regenerate primarily due to the lack of shading from a consistent overstory canopy.

Table 2 below details the groups of trees at 1131 Teron Road on the basis of their species, size, condition and status in terms of conservation. Tree/group locations are indicated by number on the accompanying tree conservation plans.

Table 2. Individual trees proposed for removal or preservation and protection at 1131 Teron Rd

Tree No.	Tree Species	DBH <sup>1</sup> (cm)	Ownership	Condition, Age Class, Tree Condition Notes & <b>Status</b> (to be removed or preserved and protected)
1	Crab apple ( <i>Malus</i> spp.)	28	Private	Fair; mature; cultivar; <b>to be removed</b> (due to conflicts with proposed development)
2	White spruce ( <i>Picea glauca</i> )	40	Private	Poor; mature; in decline; native species; <b>to be removed</b> (due to poor health and conflicts with proposed development)
3	Scots pine ( <i>Pinus sylvestris</i> )	38	City	Poor; mature; in decline; introduced invasive species; <b>to be removed</b> (due to poor health)
4	White spruce	37	Private	Poor; mature; in decline; native species; <b>to be removed</b> (due to conflicts with proposed development)
5	Red maple ( <i>Acer rubrum</i> )	56	Private	Good; mature; native species; <b>to be removed</b> (due to conflicts with proposed development)
6	White cedar ( <i>Thuja occidentalis</i> )	6 avg.	Private (possibly shared)	Good; hedge between 1131 and adjacent private property; native species; <b>to be preserved and protected</b>
7	Bur oak ( <i>Quercus macrocarpa</i> ) and red maple ( <i>Acer rubrum</i> )	Oak: 48 avg. Maple: 36 avg.	Private	Mature; seven trees in total (3 oak, 2 red maple, 1 crab apple, 1 Manitoba maple and 1 Siberian elm); grown in dense grouping; oak and red maple are native species; <b>to be removed</b> (due to conflicts with proposed development)
9	Colorado spruce ( <i>Picea pungens</i> )	16 avg.	City	Poor-good; maturing; line of approximately 40 trees; introduced species; <b>majority to be preserved and protected</b> (several will be lost due to proposed access road to March Road)

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10	Colorado spruce and Austrian pine ( <i>Pinus nigra</i> )	Spruce: 18 Pine: 20	City	Fair; maturing; introduced species; <b>to be preserved and protected</b>
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<sup>1</sup>Diameter at breast height, or 1.4m from grade.

The size of the proposed development and surrounding surface parking, amenity areas and site servicing requirements will limit tree retention to the margins of the property – in particular the cedar hedge northwest and northeast of the existing residential property at 1131 Teron Road. Trees on adjacent private or public property will be removed only when their condition warrants removal or they conflict with site access requirements.

Selected individual and groupings of trees on and adjacent to the subject property are shown in Pictures 1 through 6 on pages 5, 6, 7 and 8 of this report.

### **ENDANGERED SPECIES**

No butternuts (*Juglans cinerea*) were found on the subject property. This tree species is listed as endangered under the Province of Ontario's Endangered Species Act (ESA), 2007) and so is protected from harm. One tree of a closely related species, black walnut (*Juglans nigra*), was found on the site but it is not endangered.

### **TREE PRESERVATION AND PROTECTION MEASURES**

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

1. Erect a fence at the critical root zone (CRZ<sup>1</sup>) 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.

<sup>1</sup> 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 if you have questions regarding this tree conservation report.

Yours,

Andrew Boyd

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Consulting Urban Forester







Picture 1. Tree #5, mature red maple located at 1131 Teron Road.





Picture 2. Trees #2, 3 and 4, mature spruce and pine located at 1131 Teron Road.





Picture 3. Tree grouping #7 - line of mature red maples and bur oaks located at 1131 Teron Road.



Picture 4. Typical vegetative conditions at 1151 Teron Road.





Picture 5. Standing dead elm and ash at 1151 Teron Road.



Picture 6. Line of Colorado spruce on City lands adjacent to 1151 Teron Road.