

Tree Conservation Report 2112 Bel Air Drive, Ottawa, Ontario



August 2019
Prepared for Uniform Developments

McKINLEY ENVIRONMENTAL SOLUTIONS

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Uniform Developments 117 Centrepointe Drive, Suite 300 Ottawa, Ontario, K2G 5X3 August 22nd, 2019

Attn: Matt MacDougall, Project Manager

CC: Annibale Ferro, General Manager

RE: Tree Conservation Report for 2112 Bel Air Drive, Ottawa, Ontario

1.0 SITE OVERVIEW AND DESCRIPTION OF REDEVELOPMENT

McKinley Environmental Solutions (MES) was retained by Uniform Developments to complete a Tree Conservation Report (TCR) to support the proposed redevelopment of the 2112 Bel Air Drive property (PIN 039890019), located in Ottawa, Ontario (the Site) (Figure 1). The Site is approximately 0.81 ha in size and is currently zoned Minor Institutional. The Site is located south of Bel Air Drive, with approximately 88 m of frontage on Bel Air Drive. The Site elevation is approximately 80 m ASL and the Site is predominantly flat and well drained. The area west of the Site includes existing developed residential homes, whereas the area north of the Site includes Bel Air Drive, beyond which is a school. The area south and east of the Site is owned by the National Capital Commission (NCC) and is designated as open space. The NCC property includes undeveloped areas of meadow, thicket, and isolated stands of trees and shrubs, as well as a recreational trail. The Site itself is predominantly previously developed and currently includes a church building, driveway, and parking lot. The remainder of the Site includes manicured lawn with several planted trees. Tree and shrub stands are also present around the margins of the Site.

A Concept Plan for the proposed redevelopment is included below. The Site is proposed to be redeveloped from its current usage as a church, to accommodate twenty five (25) townhomes. The redevelopment will also include advancement of a new road that will provide access from Bel Air Drive. The blue hatched area shown in the Concept Plan is a proposed easement, which is intended to accommodate a sanitary sewer. The sanitary sewer currently crosses through the Site, and will be realigned into the proposed easement as part of the redevelopment project.



FIGURE 1: SITE OVERVIEW

Tree Conservation Report 2112 Bel Air Drive, Ottawa, ON



Please Note: This is not a legal land survey. All dimensions and locations are shown as approximate.



2.0 TREE INVENTORY METHODS

Trees that occur within the Site were inventoried on August 9th, 2019. Weather conditions included overcast skies and temperatures of 24 °C. Mid-summer conditions were observed within the Site, with the majority of healthy trees having full leaf coverage.

The individual trees and tree stands found within the Site are too small for TCR measurement plots to be utilized. Instead, individual stems were measured throughout the Site. Tree size measurements were taken with a D-tape, which is a calibrated diameter at breast height tape. Due to the lack of contiguous natural vegetation communities within the Site, trees were not classified according to the Ecological Land Classification system. Instead, individual trees and tree stands were identified and are described below.

2.1 Definitions

The following terms are used throughout this report:

- Diameter at Breast Height (dbh) means the measurement of the trunk of a tree at a height of 120 cm above grade for trees 15 cm diameter or greater, and at a height of 30 cm above grade for trees less than 15 cm diameter.
- The Critical Root Zone (CRZ) is 10 centimeters from the trunk of the tree for every centimeter of trunk dbh. The CRZ is calculated as dbh x 10 cm.



3.0 TREE INVENTORY

3.1 Site History

Air photos from 1976, 1991 and 2005 are included below (Photos from City of Ottawa 2019). Recent air photos are included in the report figures. The oldest available historic air photo (from 1976), shows that the church building was present at that time, although the Site and the immediately surrounding area appear predominantly without tree cover. This suggests that the trees that are currently found within the Site are likely less than approximately 40 years old. By 1991, many of the mature trees that are currently found within the Site are visible, suggesting that the oldest stems that currently occur within the Site are approximately 30 years old. In 2005, the majority of recent regrowth stems that are currently found within the Site are also visible.





Historic Air Photograph 1: Historic Air Photo from 1976 (Site limits shown in red). Note that the church building is present in 1976. The Site and the immediately surrounding area appear largely devoid of mature tree cover (Photo from City of Ottawa 2019).





Historic Air Photograph 2: Historic Air Photo from 1991 (Site limits shown in red). By 1991, many of the mature trees that are currently found in the Site are visible (Photo from City of Ottawa 2019).





Historic Air Photograph 3: Historic Air Photo from 2005 (Site limits shown in red). In 2005, the majority of young recent regrowth stems that are currently found within the Site are visible (Photo from City of Ottawa 2019).



3.2 Trees and Tree Stands

As noted above, the Site is predominantly previously developed and currently includes a church building, driveway, and parking lot. There are no significant intact natural vegetation communities found within the Site. Plants growing within the Site include a manicured lawn and small stands of trees and shrubs. Tree and shrub stands are also present around the margins of the Site. Vegetation features found within the Site are shown in Figure 2. Refer to Appendix A for Site Photographs. The locations of Butternut Trees are discussed separately below in Section 3.3.

As described below, the majority of trees and tree stands appear to have been planted as landscaping features. A high proportion of the trees found within the Site are non-native and exotic ornamental species. The Site includes the following vegetation features:

- Vegetation Feature A: Vegetation Feature A includes four (4) living stems of non-native Little Leaf Linden (Tilia codata) that are 22 cm, 24 cm, 26 cm, and 30 cm diameter at breast height (dbh) in size. The feature also includes four (4) dead stems. The trees appear to have been planted as landscaping features.
- **Vegetation Feature B:** Vegetation Feature B includes three (3) Red Pine (Pinus resinosa) which are 21 cm, 30 cm, and 35 cm dbh in size. The trees appear to have been planted as landscaping features.
- **Vegetation Feature C:** Vegetation Feature C includes a 50 cm dbh Red Pine. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature D:** Vegetation Feature D includes a 59 cm dbh Butternut Tree (Juglans cinerea) (Butternut #1).
- Vegetation Feature E: Vegetation Feature E includes a row of four (4) living Red Pine which are 32 cm, 33 cm, 23 cm, and 25 cm dbh in size. The row also includes two (2) dead Red Pine. The Red Pines appear to have been planted as landscaping features. The trees occur at the fence line and are overgrown with Common Buckthorn (Rhamnus cathartica) shrubs, Riverbank Grape (Vitis riparia), and young recent regrowth (<15 cm dbh) stems of Manitoba Maple (Acer negundo), White Ash (Fraxinus americana), American Elm (Ulmus americana), and Crab Apple (Malus sp.).
- Vegetation Feature F: Vegetation Feature F includes an overgrown White Cedar (Thuja occidentalis) hedge that includes several White Cedar stems between 10 cm and 25 cm dbh in size. The hedge includes two (2) non-native Norway Spruce (Picea abies) that are 28 cm and 27 cm dbh in size, as well as Butternut Tree #4, which is 29 cm dbh in size. With the exception of Butternut Tree #4, the trees appear to have been planted as landscaping features.



- **Vegetation Feature G:** Vegetation Feature G includes young recent regrowth shrubs and trees growing along the fence line. Species present include Common Buckthorn shrubs, as well as non-native Manitoba Maple and non-native Amur Maple (Acer ginnala) between 10 cm and 15 cm dbh in size.
- Vegetation Feature H: Vegetation Feature H includes four (4) Crab Apple trees which are 31 cm, 34 cm, 26 cm, and 28 cm dbh in size. The trees appear to have been planted as landscaping features.
- **Vegetation Feature I:** Vegetation Feature I is a non-native 84 cm dbh Norway Maple (Acer platanoides). The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature J:** Vegetation Feature J is a non-native 52 cm dbh Norway Spruce. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature K:** Vegetation Feature K is a 26 cm dbh Sugar Maple (Acer saccharum). The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature L:** Vegetation Feature L is another 26 cm dbh Sugar Maple. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature M:** Vegetation Feature M is a domestic Honey Locust (Gleditsia triacanthos) with two (2) stems. The stems measure 33 cm and 37 cm dbh in size. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature N:** Vegetation Feature N is a 17 cm dbh Sugar Maple. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature O:** Vegetation Feature O is a 44 cm dbh White Spruce (Picea glauca). The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature P:** Vegetation Feature P is a 78 cm dbh Silver Maple (Acer saccharinum). The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature Q:** Vegetation Feature Q is a 146 cm dbh Silver Maple. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature R:** Vegetation Feature R is a non-native 36 cm dbh Little Leaf Linden. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature S:** Vegetation Feature S is a 113 cm dbh Silver Maple. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature T:** Vegetation Feature T is a non-native 59 cm dbh Norway Maple. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature U:** Vegetation Feature U is a Silver Maple with six (6) stems. The stems measure 41 cm, 21 cm, 14 cm, 20 cm, 55 cm, and 19 cm dbh in size. The tree appears to have been planted as a landscaping feature.



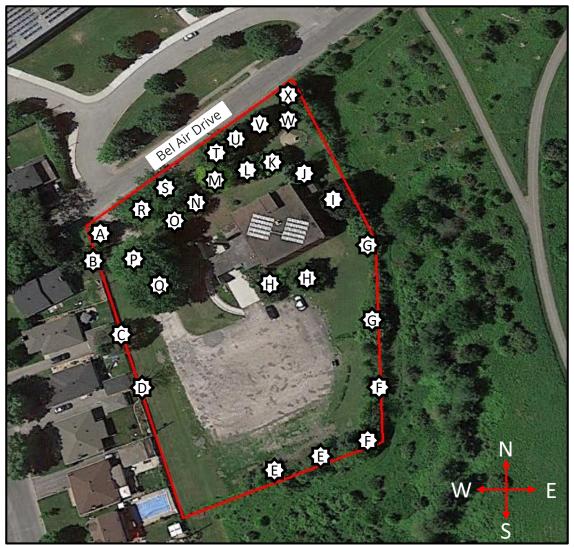
- **Vegetation Feature V:** Vegetation Feature V is a non-native Little Leaf Linden with eight (8) stems. The stems measure 15 cm, 21 cm, 23 cm, 23 cm, 24 cm, 14 cm, 28 cm, and 32 cm in size. The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature W:** Vegetation Feature W is a 22 cm dbh Black Cherry (Prunus serotina). The tree appears to have been planted as a landscaping feature.
- **Vegetation Feature X:** Vegetation Feature X is a small stand of young Little Leaf Linden, White Cedar, Red Pine, and Honey Locust stems that vary in size between 10 cm and 15 cm dbh. The stand also includes Common Buckthorn shrubs.

As noted above, the areas north and west of the Site are previously developed. The National Capital Commission (NCC) lands located south and east of the Site include undeveloped areas of meadow, thicket, and isolated tree stands, as well as a recreational trail. Immediately adjacent to the Site, the NCC lands include open meadow with numerous recent regrowth tree stands and shrubs. Tree and shrub species include young White Ash, White Pine (Pinus strobus), Manitoba Maple, American Elm, Sugar Maple, and Common Buckthorn. There are no watercourses or wetlands found immediately adjacent to the Site within the NCC lands. There are also no forested areas found immediately adjacent to the Site within the NCC lands.



FIGURE 2: VEGETATION FEATURES

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Please Note: This is not a legal land survey. All dimensions and locations are shown as approximate.

3.3 Butternut Trees

Several Butternut Trees (endangered) were noted within the Site during the Site visit. A follow-up Butternut Health Assessment (BHA) was completed to assess the health status of the Butternut Trees (Refer to Appendix B & C). The BHA documented the presence of nine (9) Butternut Trees within the Site and/or the surrounding area. Of the nine (9) Butternut Trees, four (4) were determined to be Category 1 Butternut Trees (non-retainable) (Trees #1, #2, #3, and #5). Under the rules and regulations of the Ontario Endangered Species Act (ESA), Category 1 Butternut Trees can be removed and/or impacted following acceptance of the BHA, without obtaining an authorization under the Ontario ESA. Butternut Tree #8 was determined to be a hybrid tree based on field characteristics (Refer to Appendix B & C). Butternut Hybrids are not subject to the rules and regulations of the Ontario ESA, and hence can be removed/impacted without obtaining an authorization under the Ontario ESA.

Butternut Trees #4, #6, #7, and #9 were determined to be Category 2 (retainable) Butternut Trees. The locations of the Category 2 Butternut Trees are shown below in Figure 3. The rules and regulations of the Ontario ESA establish a 25 m buffer zone surrounding Butternut Trees. Any development activities that have the potential to harm Butternut Trees are considered an 'impact' to those trees if they occur within 25 m. Butternuts #5 and #7 occur within the redevelopment area and hence will be removed by the redevelopment. Butternut #4 occurs at the property line and will be retained within the rear yard setbacks. Butternut #6 occurs beyond the property line within the adjacent National Capital Commission lands. Although Butternut #6 and #4 will not be removed by the redevelopment, each tree is considered 'impacted' by the redevelopment, as they occur within 25 m.



FIGURE 3: BUTTERNUT TREE LOCATIONS

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- Site Outline



- Category 2 Butternut Trees

Please Note: This is not a legal land survey. All dimensions and locations are shown as approximate.

4.0 TREE RETENTION AND MITIGATION MEASURES

4.1 Tree Retention Recommendations

As described above, the majority of trees and tree stands that are found within the Site consist either of planted landscaping features or recent regrowth stands. A high proportion of the trees found within the Site are non-native and exotic ornamental species. There are no areas of intact forest or any significant trees found within the Site. As described above, the majority of trees that occur within the Site are less than approximately 40 years of age. The tree coverage within the Site does not form part of any significant natural heritage features, and trees that occur within the Site have comparatively little ecological value. As such, none of the trees that occur within the Site are considered ecologically significant, and hence tree retention should be undertaken only where feasible and compatible with the grading and redevelopment requirements.

Where feasible, the following trees and tree stands could potentially be retained within the Site:

- Vegetation Features A, B, E, F, G, and X: Vegetation Features A, B, E, F, G and X occur around the Site edges. Each feature consists of young to moderate sized trees. Where feasible and compatible with the grading and redevelopment requirements, existing trees that occur at the Site boundaries should be retained within the exterior side yard setbacks and/or the rear yard setbacks.
- **Vegetation Features C and I:** Vegetation Feature C includes a 50 cm dbh Red Pine. Vegetation Feature I is an 84 cm dbh Norway Maple. Both trees are comparatively large and occur at the edges of the redevelopment. Where feasible and compatible with the grading and redevelopment requirements, Vegetation Features C and I should be retained within the exterior side yard setbacks and/or the rear yard setbacks.
- Vegetation Features P and Q: Vegetation Feature P is a 78 cm dbh Silver Maple. Vegetation Feature Q is a 146 cm dbh Silver Maple. Both trees are comparatively large and occur in the area that is shown as rear yard setbacks between back to back lots within the redevelopment area (refer to the Concept Plan included above). Where feasible and compatible with the grading and redevelopment requirements, Vegetation Features P and Q should be retained within the rear yard setbacks between the back to back lots.
- Vegetation Features S, T, and U: Vegetation Feature S is a 113 cm dbh Silver Maple. Vegetation Feature T is a 59 cm dbh Norway Maple. Vegetation Feature U is a Silver Maple with six (6) stems. Although each of these trees are comparatively large, they occur within the proposed lots and access road, and hence cannot be retained.



As noted above, portions of Vegetation Features A, B, C, E, F, G, I, P, Q, and X are recommended to be retained within the exterior side yard setbacks and the rear yard setbacks around the Site boundaries, and/or within the rear yard setbacks between back to back lots. As noted above, all tree retention is subject to the grading and redevelopment requirements, and should only be undertaken where feasible and compatible with the redevelopment plans. Mitigation measures to protect retained trees are discussed below.

Obtainment of a permit under the City's Urban Tree Conservation Bylaw will be required prior to tree removal.



4.2 Butternut Tree Regulatory Requirements

As described above in Section 3.3, Category 1 Butternut Trees and Butternut Hybrids can be removed and/or impacted without obtaining an authorization under the Ontario Endangered Species Act (ESA). The rules and regulations of the Ontario ESA allow proponents to fulfill regulatory requirements for the removal of up to ten (10) Category 2 (retainable) Butternut Trees through the Ministry of Environment, Conservation, and Parks (MECP) online registration system. As described above in Section 3.3, it is anticipated that four (4) Category 2 Butternut Trees will be removed/impacted by the redevelopment (Trees #4, #6, #7, and #9). Prior to the commencement of the redevelopment, impacts to the four (4) Category 2 Butternut Trees will be addressed by registering the activity through the MECP online registry. The rules and regulations of the Ontario ESA require that Uniform Developments provide compensation for the impacts to the Category 2 Butternut Trees. Compensation will be provided by planting eighteen (18) Butternut Seedlings and eighteen (18) companion trees. Compensation planting requirements will be fulfilled off-site in collaboration with the Rideau Valley Conservation Foundation (RVCF).



4.3 Tree Protection Mitigation Measures

In order to protect retained trees during the redevelopment, the following tree protection measures should be implemented where trees occur close to construction activities:

- Soil compaction, vegetation damage, intrusion of construction equipment and other potential
 impacts on the core of the root system of retained trees found adjacent to the Site should be
 avoided by restricting grading and other site alteration activities to the designated construction
 area. This can be achieved by providing construction fencing or suitable boundary definition to
 clearly mark the boundaries between the edge of the construction area and areas of tree
 retention/adjacent properties (where required), during each phase of tree clearing and
 construction; and
- If damage to trees that are identified for retention occurs, an arborist should review any damage to determine the best course of action to restore the original vegetative functions. Alternatively, damaged landscaping features can be replaced with new plantings.

Tree mitigation measures have been proposed to help protect and preserve retained trees. Trees to be retained should be protected by the following tree preservation measures:

- Mark the edge of the tree clearing area to ensure only designated trees are removed. Protect the critical root zone (CRZ) of retained trees, where the CRZ is established as being 10 cm from the trunk of a tree for every centimeter of trunk dbh. The CRZ is calculated as dbh x 10 cm;
- When trees to be removed overlap with the CRZ of trees to be retained, cut roots at the edge of the CRZ and grind down stumps after tree removal. Do not pull out stumps. Ensure there is not root pulling or disturbance of the ground within the CRZ;
- If roots must be cut, roots 20 mm or larger should be cut at right angles with clean, sharp horticultural tools without tearing, crushing, or pulling;
- Do not place any material or equipment within the CRZ of any tree;
- Do not attach any signs, notices, or posters to any tree;
- Do not damage the root system, trunk, or branches of any tree; and
- Ensure that exhaust fumes from all equipment are directed away from any tree canopy.



4.4 Wildlife Protection During Tree Clearing

The following mitigation measures for wildlife protection must be implemented during any future tree clearing. These include provisions from the City of Ottawa (2015) *Protocol for Wildlife Protection During Construction*:

- **Pre-Stressing:** Prior to tree and vegetation removal, the area should be pre-stressed by traversing the Site with a loud noise such as an excavator horn. This will encourage wildlife to leave the area;
- Tree and Vegetation Clearing Direction: Tree and vegetation clearing should proceed from north to south or from west to east. This will encourage wildlife to leave the work area and move in the direction of the adjacent National Capital Commission (NCC) lands;
- **Wildlife Fencing:** Due to the absence of natural heritage features adjacent to the Site, temporary wildlife fencing should not be required;
- **Inspections:** The work area will be inspected by a designated staff member prior to commencement of work. Any wildlife or significant wildlife habitat features that are encountered will be identified and marked;
- Sweeps: Prior to vegetation clearing, preconstruction sweeps of vegetated areas will be
 undertaken to ensure wildlife are not present. Construction staff will be required to review the
 mitigation measures included in this report. A designated staff member will be required to
 conduct daily sweeps each morning prior to commencement of work to ensure wildlife have not
 entered the work area;
- SAR Encounters: If Species at Risk (SAR) are encountered in the work area, construction in the vicinity must be stopped immediately and measures must be taken to ensure the SAR is not harmed. The project biologist and the Ministry of Environment, Conservation, and Parks (MECP) must be contacted to discuss how to proceed prior to recommencement of work;
- General Provisions: General provisions for Site management include the following:
 - o Do not harm, feed, or unnecessarily harass wildlife;
 - o Drive slowly and avoid hitting wildlife;
 - Keep the Site tidy and free of garbage and food wastes. Secure all garbage in appropriate sealed containers;
 - Ensure proper Site drainage so that standing water does not accumulate on Site. This will reduce the likelihood that wildlife may enter the Site;
 - Any stockpiles should be properly secured with silt fencing to prevent wildlife from accessing areas of loose fill; and
- **Timing Windows:** Vegetation clearing and site preparation will be undertaken outside of the core migratory bird breeding season of April 15th to August 15th each year in order to avoid impacting the nests of migratory birds.



5.0 REPLANTING

In order to mitigate the loss of woody vegetation from Site clearing, consideration should be given to replanting trees and shrubs at the back and front of lots. Plantings should emphasize the use of native trees and shrubs, which may include those that are currently found in the area, as identified above. Planting of Ash trees should be avoided due to the high likelihood that any planted Ash trees will become infested with Emerald Ash Borer.



6.0 **CLOSURE**

Pending that the regulatory, mitigation, and avoidance measures outlined in this report are implemented appropriately, the redevelopment of the 2112 Bel Air Drive property is not anticipated to have a significant negative effect on the natural features and functions.

We trust that the above information is sufficient; should you have any questions or require further information, please do not hesitate to contact the undersigned, at your convenience.



Dr. Andrew McKinley, EP, RP Bio. Senior Biologist, McKinley Environmental Solutions



7.0 REFERENCES

City of Ottawa (2014) Natural Heritage System Overlay (West). Official Plan Schedule L3. .

City of Ottawa (2019) Geo-Ottawa Municipal Mapping Site. http://maps.ottawa.ca/geoottawa/ (Accessed August 9th, 2019).

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2010) OMNRF Natural Heritage Reference Manual for Natural Heritage Policies of the Provincial Policy Statement, 2005, Second Edition.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2014) Significant Wildlife Habitat Mitigation Support Tool.

Ontario Ministry of Natural Resources and Forestry (OMNRF) (2019) Natural Heritage Information Center http://nhic.mnr.gov.on.ca/ (Accessed August 9th, 2019).

Species at Risk Ontario (SARO) (2019) Species at Risk Ontario. http://www.ontario.ca/environment-and-energy/species-risk-ontario-list (Accessed August 9th, 2019).



APPENDIX A

Site Photographs





Photograph 1: Looking west at Vegetation Feature A. Vegetation Feature A includes four (4) living stems of Little Leaf Linden and four (4) dead stems (August 9th, 2019).



Photograph 2: Looking south at Vegetation Feature B. Vegetation Feature B includes three (3) Red Pine (August 9th, 2019).





Photograph 3: Looking south at Vegetation Feature C. Vegetation Feature C includes a 50 cm dbh Red Pine (August 9th, 2019).



Photograph 4: Looking south at Vegetation Feature D. Vegetation Feature D includes a 59 cm dbh Butternut Tree (Butternut #1) (August 9th, 2019).





Photograph 5: Looking west at Vegetation Feature E. Vegetation Feature E includes a row of four (4) living Red Pine and two (2) dead Red Pine, which are overgrown (August 9th, 2019).



Photograph 6: Looking east at Vegetation Feature F. Vegetation Feature F includes an overgrown White Cedar hedge that includes two (2) Norway Spruce as well as Butternut Tree #4 (August 9th, 2019).





Photograph 7: Looking north at Vegetation Feature G. Vegetation Feature G includes young recent regrowth shrubs and trees growing along the fence line (August 9th, 2019).



Photograph 8: Looking north at Vegetation Feature H. Vegetation Feature H includes four (4) Crab Apple trees (August 9th, 2019).





Photograph 9: Looking north at Vegetation Feature I. Vegetation Feature I is an 84 cm dbh Norway Maple (August 9th, 2019).



Photograph 10: Looking north at Vegetation Feature J. Vegetation Feature J is a 52 cm dbh Norway Spruce (August 9th, 2019).





Photograph 11: Looking north at Vegetation Feature K. Vegetation Feature K is a 26 cm dbh Sugar Maple (August 9th, 2019).



Photograph 12: Looking north at Vegetation Feature L. Vegetation Feature L is a 26 cm dbh Sugar Maple (August 9th, 2019).





Photograph 13: Looking north at Vegetation Feature M. Vegetation Feature M is a domestic Honey Locust with two (2) stems (August 9th, 2019).



Photograph 14: Looking north at Vegetation Feature N. Vegetation Feature N is a 17 cm dbh Sugar Maple (August 9th, 2019).





Photograph 15: Looking west at Vegetation Feature O (foreground). Vegetation Feature O is a 44 cm dbh White Spruce (August 9th, 2019).



Photograph 16: Vegetation Feature P (foreground) is a 78 cm dbh Silver Maple. Vegetation Feature Q (background) is a 146 cm dbh Silver Maple (August 9th, 2019).





Photograph 17: Looking south at Vegetation Feature R. Vegetation Feature R is a 36 cm dbh Little Leaf Linden (August 9th, 2019).



Photograph 18: Looking east at Vegetation Feature S. Vegetation Feature S is a 113 cm dbh Silver Maple (August 9th, 2019).





Photograph 19: Looking east at Vegetation Feature T. Vegetation Feature T is a 59 cm dbh Norway Maple (August 9th, 2019).



Photograph 20: Looking south at Vegetation Feature U. Vegetation Feature U is a Silver Maple with six (6) stems (August 9th, 2019).





Photograph 21: Looking east at Vegetation Feature V. Vegetation Feature V is a Little Leaf Linden with eight (8) stems (August 9th, 2019).



Photograph 22: Looking south at Vegetation Feature W. Vegetation Feature W is a 22 cm dbh Black Cherry (August 9th, 2019).





Photograph 23: Looking east at Vegetation Feature X. Vegetation Feature X is a small stand of young Little Leaf Linden, White Cedar, Red Pine, and Honey Locust stems (August 9th, 2019).



APPENDIX B

Leaf On Butternut Health Assessment (Rose Fleguel 2019)



Rosemary Fleguel 405 Latourell Rd. Mountain, ON K0E 1S0 rosefleguel@gmail.com

James Ireland
Project Planner/Planning & Development
240 Michael Cowpland Dr., Suite 200
Ottawa, ON
K2M 1P6
j.ireland@novatech-eng.com

July 11, 2019

RE: 2112 Bel Air Dr., Ottawa BHA Report Number: 002-005

Date(s) of Butternut health assessment: July 10, 2019

Dear James.

This letter is in regard to my assessment of the Butternut trees on the above noted property. Please read this report carefully as it contains important information about the Endangered Species Act, 2007 (ESA).

Best regards,

Rosemary Fleguel
Designated Butternut Health Assessor #002
rosefleguel@gmail.com
613 858 3678

Enclosures:

- 1. Information from the Ministry of Natural Resources and Forestry about Butternut and the Endangered Species Act, 2007
- 2. Butternut Health Assessor's Report & Table 4:Data Sheet for Field ID of Butternut Hybrids
- 3. Copied data forms
- 4. Electronic copies of the Excel data spreadsheet (BHA Tree Analysis)

Ministry of Natural Resources and Forestry

Species At Risk P.O. Box 7000, 300 Water Street Peterborough ON K9J 8M5 Ministère des Richesses naturelles et des Forêts

Espèces en péril C.P. 7000, 300, rue Water Peterborough ON K9J 8M5



The enclosed Butternut Health Assessor's Report documents the results of the Butternut health assessment that was conducted by the designated Butternut Health Assessor (BHA) identified in the top section of the report. If there are other Butternut trees (of any size or age) at the site that may be affected by the activity and they are not identified in the enclosed BHA Report, they too must be assessed by a designated BHA.

Butternut is listed as an endangered species on the Species at Risk in Ontario List, and as such, it is protected under the *Endangered Species Act, 2007* (ESA) from being killed, harmed, or removed. If you are planning to undertake an activity that may affect Butternut, you may be eligible to follow the requirements set out in section 23.7 of Ontario Regulation 242/08 under the ESA, or you may need to seek an authorization under the ESA (e.g., a permit).

Please visit e-laws at the link provided below for the legal requirements of eligible activities under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled. Information about Butternut is also available at: http://www.ontario.ca/environment-and-energy/butternut-trees-your-property.

If you are eligible to kill, harm or take Butternut under section 23.7 of the regulation, your first step is to submit the BHA Report and the original data forms enclosed in this package to the local Ministry of Natural Resources and Forestry (MNRF) District Manager. Note that MNRF cannot accept photocopies or scanned electronic copies of the data forms.

Note regarding changes:

If the enclosed BHA Report does not identify which Butternut tree(s) are proposed to be killed, harmed, or taken in Table 1 (i.e., if "unknown" is indicated in the second last column of Table 1), or, if the information in the last two columns of Table 1 has changed since the date this BHA Report was produced, **do not make any edits to the BHA Report**. Instead, please attach a cover letter that identifies which Butternut tree(s) are proposed to be killed, harmed, or taken (by referencing the tree identification numbers) when you submit the enclosed BHA Report to the local MNRF District Manager.

The BHA Report must be submitted at least 30 days prior to registering an eligible activity to kill, harm, or remove a Butternut tree. During this 30 day period, no Butternut trees (of any category) may be killed, harmed, or removed, and MNRF may contact you for an opportunity to examine the trees. If MNRF chooses to examine the trees, a representative of MNRF will contact you using the information you supplied when you submitted the BHA Report.

If you are eligible to follow the rules in regulation under section 23.7, you may register your activity using the "Notice of Butternut Impact" form on the MNRF Registry after the 30 day period has elapsed.

If you are <u>not</u> eligible to follow the rules in regulation under section 23.7, please contact the local MNRF district office to determine whether you will need to seek an authorization (e.g., a permit). A link to the directory of MNRF offices is provided below.

Note that municipal by-laws and legislation other than the ESA may also be applicable to the removal or harming of trees.

Please retain this information and a copy of the BHA Report (including copies of all data forms) for your records, along with any other documentation you may receive from MNRF should an examination of the trees occur. If you have any questions, please contact your local MNRF district office.

Links:

Endangered Species Act, 2007:

http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_07e06_e.htm

Ontario Regulation 242/08 (refer to section 23.7):

http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_080242_e.htm

MNRF Office Locations:

https://www.ontario.ca/government/ministry-natural-resources-and-forestry-regional-and-district-offices

Butternut Health Assessor's Report Number: 002-005

Rosemary Fleguel
Designated BHA #002
405 Latourell Rd.
Mountain, ON
K0E 1S0
rosefleguel@gmail.com

James Ireland Project Planner/Planning & Development 240 Michael Cowpland Dr., Suite 200 Ottawa, ON K2M 1P6 j.ireland@novatech-eng.com

Site location: 2112 Bel Air Dr., Ottawa

Date(s) of Butternut health assessment: July 10, 2019)

Date BHA Report prepared: July 12, 2019

Map datum used:

☐ NAD83 ☐ WGS84'

Total number of trees assessed in this BHA Report: 6

The assessed trees were numbered on site using white paint or white flagging with black marker. The numbers at the site correspond to the tree numbers referenced in this report.

This BHA Report includes the following tables:

- Table 1: Butternut Trees Assessed
- Table 2: Trees Determined by BHA to be Butternut Hybrids
- Table 3: Summary of Assessment Results

Table 1: Butternut Trees Assessed

Tree #	UTM coordinates	Category 1 (1, 2, or 3^2)	dbh³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown⁴, killed, harmed or taken)	If tree is proposed to be killed, harmed, or taken, indicate reason tree is proposed to be killed, harmed or taken:
1	E0440257 N5023393	1	59	N	unknown	

¹ The extent to which the tree is affected by Butternut Canker is presented in the Excel document titled, "BHA Tree Analysis" that accompanies this BHA Report.

² Category 3 trees are not eligible to be killed, harmed or taken under section 23.7 of Ontario Regulation 242/08.

³ dbh: diameter at breast height, rounded to nearest cm (if tree is shorter than breast height, enter zero)

⁴ In this column, "unknown" indicates that at the time of assessment, there are no proposals to kill, harm or take this tree that are known to the BHA.

Tree #	UTM coordinates	Category 1 (1, 2, or 3^2)	dbh³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown⁴, killed, harmed or taken)	If tree is proposed to be killed, harmed, or taken, indicate reason tree is proposed to be killed, harmed or taken:
4	E0440332 N5023381	2	29	N	unknown	
5	E0440320 N5023477	1	18	N	unknown	
6	E0440335 N5023465	2	0	N	unknown	
7	E0440278 N5023352	2	3	N	unknown	
9	E0440276 N5023352	2	0	n	unknown	

Table 2: Trees Determined by BHA to be Butternut Hybrids

Tree #	UTM coordinates	Method used (genetic testing or field identification):
8	E0440346 N5023436	Field identification

Table 3: Summary of Assessment Results

Result:	Total #:	Important information for persons planning activities that may affect Butternut:
Category 1	2	 A Category 1 tree is one that is affected by butternut canker to such an advanced degree that retaining the tree would not support the protection or recovery of butternut in the area in which the tree is located; and is considered "non-retainable".
		 During the 30 day period that follows your submission of this BHA Report to the MNRF District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNRF may contact you for an opportunity to examine the trees.
		 Category 1 trees may be killed, harmed or taken <u>after</u> the 30 day period that follows submission of this BHA Report to the MNRF District Manager, unless the results of an MNRF examination indicate that the assessment has not been conducted in accordance with the document entitled "Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the <i>Endangered Species Act</i>, 2007".
Category 2	4	 A Category 2 tree is one that is not affected by Butternut Canker, or is affected by Butternut Canker but the degree to which it is affected is not too advanced and retaining the tree could support the protection or recovery of butternut in the area in which the tree is located, and is considered "retainable".
		 During the 30 day period that follows your submission of this BHA Report to the MNRF District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNRF may contact you for an opportunity to examine the trees.
		 Activities that may kill, harm or take up to a <u>maximum of ten (10)</u> Category 2 trees may be eligible to follow the rules in section 23.7 of Ontario Regulation 242/08, in accordance with the conditions and requirements set out in the regulation.

Result:	Total #:	Important information for persons planning activities that may affect Butternut:
		Refer to e-Laws for the legal requirements of eligible activities under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled: http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_080242_e.htm
		 Activities that may kill, harm or take more than ten (10) Category 2 trees are not eligible to follow the rules in section 23.7 of Ontario Regulation 242/08. Contact the local MNRF district office for information on how to seek an ESA authorization (e.g., a permit) or consider an alternative that would be eligible for the regulation.
Category 3	0	A Category 3 tree is one that may be useful in determining sources of resistance to Butternut Canker, and is considered "archivable".
		Category 3 trees are not eligible to be killed, harmed or taken under section 23.7 of Ontario Regulation 242/08.
		Contact the local MNRF district office for information on how to seek an ESA authorization, or consider an alternative that will avoid killing, harming or taking any Category 3 trees.
Cultivated	0	 An activity that involves killing, harming, or taking a cultivated Butternut tree that was not required to be planted to fulfill a condition of an ESA permit or a condition of a regulation, may be eligible for the exemption provided by subsection 23.7 (11) of O. Reg. 242/08.
		 Prior to undertaking the activity, the owner or occupier of the land on which the Butternut is located (or person acting on their behalf) will need to determine whether the exemption for cultivated trees is applicable by determining whether or not the tree was cultivated as a result of the requirements for an exemption under O. Reg. 242/08 or a condition of a permit issued under the ESA. This information can be accessed by contacting the local MNRF district office.
		The owner or occupier of the land on which the Butternut is located (or person acting on their behalf) is encouraged to append the details regarding whether the tree was planted to satisfy a requirement (e.g., the permit number or registration number) to this BHA Report for their records.
Hybrid	1	Hybrid Butternut trees are not protected under the ESA, but their removal may be subject to municipal by-laws and other legislation.

Butternut Health Assessor's Comments:

All of the assessed trees except Tree #1 are in the 25m buffer outside of the property boundary.

Because of the obvious hybrid presence on site, leaves were collected from Trees #4, #6 and #9 and sent to OFRI for DNA testing. I intended on collecting leaves from Tree #7 at the same time but the entire crown of this seedling had been cut off sometime between the leaf-on assessment July 7 and my return on July 22. Tree #7 did have hybrid characteristics but didn't score high enough for positive field identification. (See Table 4 attached to data collection form 2s)

This concludes the summary of the BHA Report. A complete BHA Report must also include:

- 1. All original (hard copy) data forms (i.e., all completed sets of Form 1 and Form 2), and
- 2. Electronic and printed copies of the Excel data analysis spreadsheet.

BHA Tree Analysis (version: December 2013)

This table is to be completed by a designated Butternut Health Assessor (BHA).

BHA Report #	19-005	Assessment Date(s)	10lul-19	Total # Butternut Trees in BHA Report	6		
BHA ID#	2	BHA Name	Rosemary Fleguel				
Landowner / Client Name			Uniform Develop	Uniform Developments			

Property Location 2112 Bel Air Dr., Ottawa

	input field data au								auto	matic c	alculatio	ns fron	n field (data			egoı			
					canke				(or N)	Circ.	total bole	total RF canker	bole	RF	total		2: re	on-ret etaina rchiva	ble,	ble,
Tree #	Live Crown %	Tree dbh (cm)	soot (wil assig 2.5 cr canl	l be gned n per	(wil assig cm	n (O) II be ned 5 per iker)	# re flare can	` '	cankered tree? (Y	(cm) = Pi x dbh	canker width (sooty x 2.5 + open x 5)	width (sooty x 2.5 + open x 5)	canker % of circ.	canker % of circ.	root canker % of 2xCirc	LC% >/= 50 &	LC% >70 & BRC	LC% >70 & BC	ary tree call	FINAL TREE CALL a Cat 2, dbh>20c
			S ∀ E	S 2 m	O < 2 m	O >2 m	RF S	RF O	<40 m from	Circ (cm)	BC (cm)	RC (cm)	вс%	RC%	BRC%	BC% = 0	% <20	% <20	Preliminary tree	m <40m from a Cat 1
1	30	59								185.3	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1
2										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!
3										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!
4	90	29	5	0	1	0	1	0		91.06	17.5	2.5		2.7	11.0	1	2	2	2	2
5	90	18	3	0	1	0	1	3		56.52	12.5	17.5	22.1	31.0	26.5		1	1	1	1
6	100	1	0	0	0	0	0	0		3.14	0.0	0.0	0.0	0.0	0.0	2	2	2	2	2
7	100	3	0	0	0	0	0	0		9.42	0.0	0.0	0.0	0.0	0.0		2	2	2	2
8										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!
9	100	1	0	0	0	0	0	0		3.14	0.0	0.0	0.0	0.0	0.0	2	2	2	2	2
10										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!
11										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!



LABORATORY TEST REPORT

OFRILS

FRMS-PL-F-003

BUTTERNUT HYBRIDITY TEST

1235 Queen Street East Sault Ste. Marie, Ontario P6A 2E5 Phone: 705 946 7448 Fax: 705 946 2030

Report Date

2019-08-15

Report ID: OFRILS-PL- 1946

Page 1 of 2

NOVATECH Engineers, I	Planners & Architects	
240 Michael Cowpland Ottawa, Ontario K2M 1P6	Dr., Suite 200	
James Ireland		
(613) 254-9643	Fax:	
	240 Michael Cowpland Ottawa, Ontario K2M 1P6 James Ireland	K2M 1P6 James Ireland

MECP Contact	Species At Risk		
Address			
Phone:		Fax:	
E-mail:	SAROntario.ca		

Sample Received On:

2019-07-23

Method: Molecular tests to detect butternut x Japanese walnut hybrids*

Test Report:

Three standard molecular tests were conducted on three samples from Bel Air Drive, Ottawa, Ontario. No hybridity was detected in the results of laboratory tests. To the best of our knowledge the sample represents butternut, Juglans cinerea. Sample details may be found on page two of this report.
Please direct any questions to the contact below.

This result and test report relates only to the items tested.

Laboratory Contact:

Glenna Halicki Hayden Forest Pathology Lab Supervisor Ontario Forest Research Institute 1235 Queen Street East Sault Ste. Marie, ON P6A 2E5

Phone: 705 946 7412 Fax: 705 946 2030 Email: glenna.halickihayden@ontario.ca

Web: http://ontario.ca/ofri

All appropriate laboratory quality controls were applied in producing the result/s. The results and interpretation are reported to the best of the knowledge and expertise of the lab and is based on the reference method adopted.

Authorized Signature	glenna.halickihayden @ontario.ca	Digitally signed by glenna.halickihayden@ontario.ca DN: cn=glenna.halickihayden@ontario.ca Date: 2019.08.15 09:48:28 -04'00'		
Name				

This report shall not be reproduced except in full, or altered without the written approval of the laboratory.

^{*} Based on published reference method: Peng Zhao & Keith E. Woeste. 2011. DNA markers identify hybrids between butternut (Juglans cinerea L.) and Japanese walnut (Juglans ailantifolia Carr.). Tree Genetics & Genomes 7:511–533. DOI 10.1007/s11295-010-0352-4.



FRMS-PL-F-003

SAMPLE INFORMATION AND TEST SUMMARY

OFRILS

1235 Queen Street East Sault Ste. Marie, Ontario P6A 2E5 Phone: 705 946 7448 Fax: 705 946 2030

Page 2 of 2

Report ID: OFRILS-PL-	1946

Lab ID	Sample Type	Tree ID	Collection Site	UTM Coordinates		RESULT y Detected
19124	Foliage	Tree # 4	2112 Bel Air Drive, Ottawa, Ontario	18T 440332 5023381	⊠ NO	☐ YES
19125	Foliage	Tree # 6	2112 Bel Air Drive, Ottawa, Ontario	18T 440335 5023465	⊠ NO	☐ YES
19126	Foliage	Tree # 9	2112 Bel Air Drive, Ottawa, Ontario	18T 440276 5023352	⊠ NO	☐ YES
					□ №	☐ YES
					□ NO	☐ YES
					□ №	☐ YES
					□ №	YES
					□ NO	YES
					□ NO	☐ YES
					□ NO	☐ YES
					□ NO	☐ YES
*					□ NO	☐ YES
				,	□ NO	☐ YES
					□ NO	YES
					□ NO	☐ YES
					□ NO	☐ YES

Surveyor ID	Collection Form 1 -	2010 Edition 15cm Date (dd/mm/yyyy)
or BHA# Shaded fields are mandatory for Butternut Hea		10-07-2019
urveyor First ROSE	Last CLECUE	
Contact Email		
Telephone (6 / 3) 8 5 8 - 3 6 7 8	Telephone Other (
	Last	<u></u>
Owner	Last 1 0 0 1 1	
(check if same as surveyor) Email	EVELOPME	= N T S
	Telephone Other (])[X
Property Owner's Mailing address Address / / 7 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 /	107 00	Postal Code Prov.
City O T T A W A		#300 K2G5X3
Tree Location (if different from mailing address)		
Address/(911#) 2 / / 2 B E L A R	DR	
Township		Lot Con
Directions City O T T A W A		
	- ALL THE TRE	ES IN THIS ASSESSMENT
1-1		25m BUFFER EXCEPT TREE
☐ Yes ☐ No Can Share Location Information with ☐ Yes ☐ No Site visits OK? (prior arrangments with other states)	other Butternut Recovery Or	rganizations?
> (Greater than) Butternut Trees Tally by Dia	ameter Class	Overall Property Description
< (Less than) (Do a dot tally in blank space; wr:		I I Rolling Upland I I Bottomland
Tree Condition < 3 cm 3-15 cm	16-30cm >30 cm	☐ Valley Slope ☐ Variable
Vigorous: > 50% Live Crown Minor or no cankers		☐ Tableland ☐ Unknown
Poor Vigor: <50% Live Crown		Vegetation Community/ies ☐ Open ☐ Fencerow
or >50% Live Crown + heavily		☐ Shrubland ☐ Roadside ☐ DeciduousForest ☐ Quary
Dead		☐ ConiferForest ☐ UrbanYard
		☐ MixedForest ☐ UrbanPark Other
Historically, do some trees produce seeds? [☐Y ☐N ☐ Unkown	
Estimated area containing butternut for properties > 1 acre (0.4 hectares):	tares	Soil Drainage Soil Depth
Consultant:		☐ Well Drained ☐ > 1metre
James Ireland		☐ Moderately Drained ☐ 30 - 99cm ☐ Poorly Drained
		☐ Unknown ☐ < 30cm
NOVALLETA		□ Verichle
Engineers, Planners + Landson	ge Architects	Soil Texture ☐ Clay ☐ Sand ☐ Unknown
Engineers, Planner + Landson 240 Michael Convolend Dr. S	pe Architects	☐ Clay ☐ Sand ☐ Unknown ☐ Clay ☐ Variable
Engineers, Planners + Londson 240 Michael Compland Dr., S Offama K2M 1P6 61	pe Architects 54 200 3 254 9643	☐ Clay ☐ Sand ☐ Unknown

(Contact Information follows all applicable privacy policies and guidelines)

Contact Information follows all applicable privacy policies and guidelines)

Forest Gene Conservation A Suite 233, 266 Charlotte St. Peterborough, ON, K9J 2V4 www.fgca.net





Butternut Data Collection FORM 2 (2010 Edition)

(PLEASE USE **BLOCK LETTERS**)

Fill when Form 1 indicates canker is well established. The information opn Form 2
must be filled out for all trees when doing

	Shaded fields are mandatory for Butternut Health	Assessments	must be filled out for a	all trees when doing a
)	Site Code(A,B,Z, AA) Surveyor ID or BHA#	2	Butternut Health Asse Date (dd/m	nm/yyyy)
1	Surveyor Last Name		10-0	07-2019
	Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing			
1	Tree # Zone Easting Northing	Assess below #Epic-Live #Epic-Dead Bark Type # Callused Wounds	#Open #Sooty Root	Metres from badly cankered tree <pre></pre>
_				
2	Tree # Zone Easting Northing Crown Class 9 Live Crown % 2 Main Stem Length(m) Below crown Seed Signs Twig Dieback Branch Dieback 2 #Stems Butternut Origin Natural Natural Planted Plowers Signs Planted Plowers Defoliation Discolouration 2 9 DBH(cm) Planted Planted Plowers Seed Set Unknown None	#Epic-Dead Bark Type # Callused Wounds	#Open #Sooty Root	Metres from badly cankered tree <pre></pre>
-	Tree # Zone Easting Northing 5 1 8 4 4 0 3 2 0 5 0 2 3 4 7 7	Assess below	live crown	Metres from badly cankered tree ☐ < 40 ☐ > 40 ☐ None Found
1	Crown Class 9 0 Live Main Stem Length(m) Below crown Seed Twig Dieback Branch Dieback #Stems Origin Male Flowers Defoliation Discolouration Discolouration Discolouration Unknown None	#Epic-Dead	#Open #Sooty Root 3 // =<2m // 3 >2m // 0	Competing Species
	Hybrid characteristics but unconfirm	ed		
2	Tree # Zone Easting Northing Crown 1844903355023465 Crown % Main Stem Length(m) Below crown Seed Below crown Seed Branch Dieback #Stems Origin Natural Permale Flowers Defoliation DBH(cm) Planted Seed Set Discolouration DBH(cm) None	Assess below #Epic-Live #Epic-Dead Bark Type # Callused Wounds	#Open #Sooty Root	Metres from badly cankered tree <pre></pre>
	Flushed out but died back, small suc	her comm	up at noof	Collor
2	Tree # Zone Easting Northing 1 7 1 8 4 4 0 2 7 8 5 0 2 3 3 5 2 Crown Class 1 0 0 Live Crown % 1 Main Stem Length(m) Below crown Seed Branch Dieback Branch Dieback Defoliation Defoliation Discolouration 1 #Stems Butternut Origin Natural Planted Plowers Pemale Flowers Seed Set Seed Set Unknown None	Assess below #Epic-Live #Epic-Dead Bark Type # Callused Wounds	#Open #Sooty Root	Metres from badly cankered tree <pre></pre>
	Hybrid characteristies but unconfin	ned-tree	had been co	ut of when I return
	Please enter matching page link code on forms 1 and 2		return forms to: Gene Conservation Asso	ciation 49731 to Collect

(Contact Information follows all applicable Suite 233, 266 Charlotte St. privacy policies and guidelines)

Peterborough, ON, K9J 2V4 www.fgca.net





Butternut Data Collection FORM 2 (2010 Edition)

Shaded fields are mandatory for Butternut Health Assessments

(PLEASE USE BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a Putterput Hoalth Assessment.

		Surveyor ID O 2	Date (dd/mm/y	
	Surveyor Last Name		110-07	-20/9
MIEW	Class Crown % Belo Crown % Belo Crown % Belo Butte Orig Nat Defoliation Discolouration Discolouration Crown & Butte Orig Nat Defoliation Discolouration Crown & DBH(cm) DBH(cm) DBH(cm) DBH(cm) DBH(cm) DBBH(cm)	Northing Assess Stem Length(m) w crown Seed #Epic- Signs ural Female Flowers ural Seed Set known None Northing Northing Northing Su attacked Resess #Epic- Woun Northing Assess #Epic- Woun Northing Assess #Epic- #Epic	-Live #Open #Sooty -Dead Root Cor Bused Ads >2m Metre -Live #Open #Sooty -Live #Open #Sooty -Dead Root Cor	s from badly cankered tree 40
2	☐ Branch Dieback ☐ ☐ Nat ☐ Defoliation ☐ DBH(cm) ☐ Plan	ural Female Flowers # Call	lused	
En		#Epic. #Epic.	i-Live #Open #Sooty Cor i-Dead Root	es from badly cankered tree 40
	0.0	#Epic Stem Length(m) w crown Seed Fruit Signs gin Male Flowers tural Female Flowers tural Seed Set #Epic	c-Live #Open #Sooty c-Dead Root Con	es from badly cankered tree 40
	Class Crown % Below Butter Twig Dieback #Stems Ori Na Defoliation DBH(cm) Pla	#Epic The Stem Length(m) The Stem Length(m) The Stem Length(m) The Stem Length(m) #Epic	c-Live #Open #Sooty c-Dead Root Co	es from badly cankered tree 40 > 40 None Found mpeting Species

Please enter matching page link code on forms 1 and 2

Page Link 4 4 0 2 5 7

(Contact Information follows all applicable privacy policies and guidelines)

Please return forms to: Forest Gene Conservation Association Suite 233, 266 Charlotte St. Peterborough, ON, K9J 2V4 www.fgca.net





Table 4: Data Sheet for Field Identification of Butternut Hybrids

BHA name:	R. FLEGUEL	7	Tree ID #:					
BHA ID #:	200		4	800	5			
BHA Report #:	19-005							
Assessment Date(s): 10-JUL-19	10-201-10	<i>T</i>						
Tree location (site address):	2112 Bel Air Dr. Ottawa	A						
Client name:								
Leaf Retention								
Dormant Terminal Bud	pn							
Dormant Twigs								
Lenticel Shape on New Twigs	ew Twigs							
Pith Color of 1-Year Twig	Twig		_	K				
Leaf Scar			0	_	1			
Leaf Length			-	- Albana	,			
Color of Bark Fissures on Mature Trees	es on Mature Trees							
Green Hull Characteristics	ristics							
Nut Shape								
Catkin Length When Fully Extended and Shedding Pollen	ו Fully Extended ח							
How to interpret total score: 0 to 3 = Butternut; 4 or greater = Hybrid	al score: d	Total:	~	+	ω			

APPENDIX C

Leaf Off Butternut Health Assessment (Rose Fleguel 2019)



Rose Fleguel 405 Latourell Rd. Mountain, ON K0E 1S0 613 858 3678 rosefleguel@gmail.com

Matt MacDougall, Project Manager Uniform Developments 117 Centrepoint Dr., Suite 300 Ottawa, ON K2G 5X3 mmacdougall@uniformdevelopments.com

January 25, 2019

RE: 2112 Bel Air Dr., Ottawa BHA Report Number: 19-002

Date(s) of Butternut health assessment: January 25, 2019

Dear Matt,

This letter is in regard to my assessment of the Butternut trees on the above noted property. Please read this letter carefully as it contains important information about the Endangered Species Act, 2007 (ESA).

Butternut is listed as an endangered species on the Species at Risk in Ontario List, and as such, is protected under the ESA from being killed, harmed, or removed. If you are planning to undertake an activity that may affect Butternut, you may be eligible to follow the requirements set out in section 23.7 of Ontario Regulation 242/08 under the ESA, or you may need to seek an authorization under the ESA (e.g., a permit).

Please visit e-laws at the link provided below for the legal requirements of eligible activities under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled. Information about Butternut is also available at: http://www.ontario.ca/environment-and-energy/butternut-trees-your-

property.

If you are eligible to kill, harm or take Butternut under section 23.7 of the regulation, your first step is to submit the BHA Report and the original data forms enclosed in this package to the local MNR District Manager. Note that the MNR will not accept photocopies. The BHA Report must be submitted at least 30 days prior to registering to kill, harm, or remove a Butternut tree. During this 30 day period, no Butternut trees (of any category) may be killed, harmed, or

Links:

Endangered Species Act, 2007:

http://www.e-

laws.gov.on.ca/html/statutes/english/elaws statutes 07e06 e.htm

Ontario Regulation 242/08 (refer to section 23.7):

http://www.e-

laws.gov.on.ca/html/regs/english/elaws_regs_080242_e.htm

Summary of changes related to Butternut:

http://www.ontario.ca/environment-and-energy/butternut-trees-your-property

MNR office locations:

http://www.mnr.gov.on.ca/en/ContactUs/2ColumnSubPage/STEL0 2 179002.html

removed, and MNR may contact you for an opportunity to examine the trees.

If MNR chooses to examine the trees, a representative of the MNR will contact you using the information you supplied when you submitted the BHA Report. After the examination has been completed, MNR will notify you if the examination results change whether you are eligible for the regulation.

If you are eligible to follow the rules in regulation under section 23.7, you may register your activity using the "Notice of Butternut Impact" form on the MNR Registry after the 30 day period has elapsed.

If you are **not** eligible to follow the rules in regulation under section 23.7, please contact the local Ministry of Natural Resources (MNR) office to determine whether you will need to seek a permit. A link to the directory of MNR offices is provided in the text box on the previous page.

As a designated Butternut Health Assessor (BHA), I am providing the following Butternut Health Assessor's Report for the trees located at the above noted property, for which I completed an assessment during the site visit on the above noted date. If there are other Butternut trees at the site that may be affected by the activity and they are not identified in this report, they too must be assessed by a BHA.

Note that municipal by-laws and legislation other than the ESA may also be applicable to the removal or harming of trees.

Please retain this letter and a copy of the BHA Report along with any other documentation you may receive from the MNR should an examination of the trees occur. If you have any questions, please do not hesitate to contact me or Aaron Foss, Fish & Wildlife Technical Specialist at the Kemptville District Ministry of Natural Resources office at aaron.foss@ontario.ca

Sincerely,

Rose Fleguel

Enclosures:

- 1. Butternut Health Assessor's (BHA) Report
- 2. Copied data forms originals to MNR
- 3. Electronic copy of the Excel data spreadsheet (BHA Tree Analysis)

Butternut Health Assessor's Report

Rose Fleguel 405 Latourell Rd. Mountain, ON K0E 1S0

Matt MacDougall, Project Manager Uniform Developments 117 Centrepoint Dr., Suite 300 Ottawa, ON K2G 5X3

Property description: 2112 Bel Air Dr., Ottawa

BHA Report Number: 19-002

Date(s) of Butternut health assessment: January 25, 2019

Date BHA Report prepared: January 25, 2019

Total number of trees in this BHA Report: 7

The assessed trees were numbered using white flagging tape. The number on the tree corresponds to the tree number used in this report.

This BHA Report includes the following tables:

- Table 1: Butternut trees proposed to be killed, harmed, or taken
- Table 2: Butternut trees that are **not** proposed to be killed, harmed or taken
- Table 3: Trees determined to be hybrid Butternuts
- Table 4: Summary of Assessment Results

Table 1: Butternut trees proposed to be killed, harmed, or taken

Tree #	UTM coordinates	Category ¹ (1, 2, or \mathcal{R})	dbh³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: killed, harmed or taken)	Reason tree is proposed to be killed, harmed or taken:
1	E0440257 N5023393	2	59	N	unknown	
2	E0440287 N5023326	1	15	N	unknown	
3	E0440286 N5023330	1	8	N	unknown	
4	E0440332 N5023381	2	29	N	unknown	

¹ The extent to which the tree is affected by Butternut Canker is presented in the Excel document titled, "BHA Tree Analysis" that accompanies this BHA Report.

² The rules in regulation under section 23.7 of O. Reg. 242/08 are not applicable to Category 3 trees.

³ dbh: diameter at breast height, rounded to nearest cm (if tree is shorter than breast height, enter zero)

Tree #	UTM coordinates	Category ¹ (1, 2, or 3 ²)	dbh³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: killed, harmed or taken)	Reason tree is proposed to be killed, harmed or taken:
5	E0440320 N5023477	2	18	Z	unknown	
6	E0440335 N5023465	2	0	N	unknown	
7	E0440278 N5023352	2	0	N	unknown	

Table 2: Butternut trees that are **not** proposed to be killed, harmed or taken

Tree #	UTM coordinates	Category (1, 2, or 3)	dbh⁴ (cm)	Cultivated? (Y/N)

Table 3: Trees determined to be hybrid Butternuts

Tree #	UTM coordinates

Table 4: Summary of Assessment Results

Result:	Total #:	Important information for persons planning activities that may affect Butternut:
Category 1	2	 A Category 1 tree is one that is affected by butternut canker to such an advanced degree that retaining the tree would not support the protection or recovery of butternut in the area in which the tree is located; and is considered "non-retainable".
		 During the 30 day period that follows your submission of this BHA Report to the MNR District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNR may contact you for an opportunity to examine the trees.
		 Category 1 trees may be killed, harmed or taken <u>after</u> the 30 day period that follows submission of this BHA Report to the MNR District Manager, unless the results of an MNR examination indicate that the assessment has not been conducted in accordance with the document entitled "Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the Endangered Species Act, 2007".
Category 2	5	A Category 2 tree is one that is not affected by Butternut Canker, or is affected by Butternut Canker but the degree to which it is affected is not too advanced and retaining the tree could support the protection or recovery of butternut in the area in which the tree is located, and is

Page 4 of 5, BHA Report Number: _19-002_

Result:	Total #:	Important information for persons planning activities that may affect Butternut:
		considered "retainable".
		 During the 30 day period that follows your submission of this BHA Report to the MNR District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNR may contact you for an opportunity to examine the trees.
		 Activities that may kill, harm or take up to a maximum of ten (10) Category 2 trees may be eligible to follow the rules in section 23.7 of Ontario Regulation 242/08, in accordance with the conditions and requirements set out in the regulation.
		Refer to e-Laws for the legal requirements of eligible activities under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled: http://www.e-laws.gov.on.ca/html/regs/english/elaws-regs-080242 e.htm
Category 3	0	A Category 3 tree is one that may be useful in determining sources of resistance to Butternut Canker, and is considered "archivable".
		 Category 3 trees are not eligible to be killed, harmed or taken under section 23.7 of Ontario Regulation 242/08.
		Visit the MNR website using the link below for information on how to seek an ESA authorization, or consider an alternative that will avoid killing, harming or taking any Category 3 trees: http://www.mnr.gov.on.ca/en/Business/Species/2ColumnSubPage/MNR SAR HOW DO GET_PER_EN.html
Cultivated	0	 An activity that involves killing, harming, or taking a cultivated Butternut tree that was not required to be planted to fulfill a condition of an ESA permit or a condition of a regulation, may be eligible for the exemption provided by subsection 23.7 (11) of O. Reg. 242/08.
		 Prior to undertaking the activity, the owner or occupier of the land on which the Butternut is located (or person acting on their behalf) will need to determine whether the exemption for cultivated trees is applicable by determining whether or not the tree was cultivated as a result of the requirements for an exemption under O. Reg. 242/08 or a condition of a permit issued under the ESA. This information can be accessed by contacting the local MNR district office: http://www.mnr.gov.on.ca/en/ContactUs/2ColumnSubPage/STEL02_179002.html
		 The owner or occupier of the land on which the Butternut is located (or person acting on their behalf) is encouraged to append the details regarding whether the tree was planted to satisfy a requirement (e.g., the permit number or registration number) to this BHA Report for their records.
Hybrid	0	Hybrid Butternut trees are not protected under the ESA, but their removal may be subject to municipal by-laws and other legislation.

<u>NOTE</u>: This concludes the summary of the BHA Report. A complete BHA Report must include the original (hard copy) data forms (i.e., all completed sets of Form 1 and Form 2) and an electronic copy of the Excel data analysis spreadsheet.

BHA Tree Analysis (version: December 2013)

This table is to be completed by a designated Butternut Health Assessor (BHA).

BHA Report #	19-002	Assessment Date(s)	25-Jan-19	tal # Butternut Trees BHA Report	7	
BHA ID#	2	BHA Name	Rosemary Fleguel			
Landowner / Client Name		lame	Uniform Developments			

Property Location 2112 Bel Air Dr., Ottawa

input field data							automatic calculations from field data						Categories:							
					cankers		(O) #root be flare (RF) led 5 cankers per		(or N)	Circ. (cm) = Pi x	canker width (sooty x	total RF canker width (sooty x 2.5 + open x 5)	bole canker % of circ.	RF canker % of circ.	total bole & root canker % of 2xCirc	1: non-retainable, 2: retainable, 3: archivable				
Tree #	Live Crown %	Tree dbh (cm)	(will be (wassigned assigned cr		(wil assig cm	ll be			cankered tree? (`							LC% >/= 50 &	LC% >70 & BRC	LC% >70 & BC	ary tree call	FINAL TREE CALL a Cat 2, dbh>20c
			s v ∈	s 2 * E	o ∜	O >2 m	RF S	RF O	mouj u	Circ (cm)	BC (cm)	RC (cm)	вс%	RC%	BRC%	BC% = 0	% <20	% <20	Preliminary tr	m <40m from a Cat 1
1	100	59	0	0	13	0	0	0	n	185.3	65.0	0.0	35.1	0.0	17.5	1	2	1	2	2
2	100	15	0	0	8	3	0	0		47.1	55.0	0.0	116.8	0.0	58.4	1	1	1	1	1
3	100	8	0	0	6	5	0	0		25.12	55.0	0.0	218.9	0.0	109.5	1	1	1	1	1
4	100	29	0	0	1	0	0	0	n	91.06	5.0	0.0			2.7	1	2	2	2	2
5	100	18	0	0	1	0	0	3		56.52	5.0	15.0	8.8	26.5	17.7	1	2	2	2	2
6	100	2	0	0	0	0	0	0		6.28	0.0	0.0	0.0	0.0	0.0		2	2	2	2
7	100	3	0	0	0	0	0	0		9.42	0.0	0.0					2	2	2	2
8										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!
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10										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!

0cm 3cm D4	44 D-4- O-III		040 E I''	15cm		
Surveyor ID Surveyor ID	ternut Data Collection F		<u>טיט במוזוסח</u> Date (dd/mm			
Shaded fields are mandatory for			25-0	1 - 2019		
First O.L. L.	Last	I. I.I.I				
Surveyor Contact Email	FUE	SUE	100			
			<u> </u>			
Telephone (6 1 3) 8 5 8 - 3	Telephone Other (x		
Property Owner First ATT	Last	a c D o	VAALL			
(check if same	ORM DEVELO	PME	NTS			
as surveyor) Email						
Telephone (Telephone Other (6 1 3)	225-077	0 x 239		
Property Owner's Mailing address Address		Les [] [.1	Post	tal Code Prov.		
City OF ALLA	REPOINTD	A H	-300 K	255 x 3 0 2		
Tree Location (if different from mailing addres	201					
Address/(911#) 2 / / 2 / / / / / / / / / / / / / / /		Handania de la Companya de la Compan				
Township			 	ot Con		
Directions City OTTAWA						
Directions						
	Information with other Butternut R ior arrangments will always be ma					
	ees Tally by Diameter Class		Overall Property			
	blank space; write total# in box		(area(s) containi ☐ Rolling Upland	i ng Butternut) ☐ Bottomland		
Tree Condition < 3 cm	3-15 cm 16-30cm	> 411 cm	☐ Valley Slope	☐ Variable ☐ Unknown		
Vigorous: > 50% Live Crown Minor or no cankers			☐ Tableland Vegetation Co			
Poor Vigor: <50% Live Crown			☐ Open ☐ Shrubland	☐ Fencerow ☐ Roadside		
or >50% Live Crown + heavily cankered stem			☐ DeciduousForest ☐ Quary			
Dead			☐ ConiferForest☐ MixedForest	☐ UrbanYard ☐ UrbanPark		
Historically, do some trees prod	luce seeds? 🗆 Y 🔲 N [Unkown	Other	- Glbain aik		
Estimated area containing butternut						
for properties > 1 acre (0.4 hectares):						
	Acres Hectares		Soil Drainage	Soil Depth		
	Acres		Soil Drainage ☐ Well Drained ☐ Moderately Draine	☐ > 1metre		
	Acres		☐ Well Drained☐ Moderately Draine☐ Poorly Drained	☐ > 1metre		
	Acres		☐ Well Drained☐ Moderately Draine	□ > 1metre □ 30 - 99cm □ < 30cm □ Variable		
	Acres		☐ Well Drained ☐ Moderately Draine ☐ Poorly Drained ☐ Unknown Soil Texture ☐ Clay ☐	d □ > 1metre □ 30 - 99cm □ < 30cm □ Variable Sand □ Unknown		
	Acres Hectares			□ > 1metre □ 30 - 99cm □ < 30cm □ Variable		
Please enter matching numerical page lim		Please retu		d □ > 1metre □ 30 - 99cm □ < 30cm □ Variable □ Unknown Variable Unknown		
Para link // Lal -		Forest Gen Suite 233,		d		

Butternut Data Collection FORM 2 (2010 Edition)

(PLEASE USE BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

	Shaded fields are mandatory for Butternut Health Assessments	must be filled out for a	all trees when doing a			
	Site Code(A,B,Z, AA) Surveyor ID or BHA #	Butternut Health Assessment. Date (dd/mm/yyyy)				
	Surveyor Last Name	25-0	0/-20/9			
	Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing					
	Tree # Zone Easting Northing 1 1 4 4 0 2 5 7 5 0 2 3 3 Assess below	live crown	Metres from badly cankered tree			
	Crown Live Main Stem Length(m) #Epic-Live	#Open #Sooty	Competing Species None Found			
2	Class Crown % Below crown Seed #Epic-Dead Twig Dieback #Stems Origin Male Flowers Bark Type	Root 0 0				
	Branch Dieback Female Flowers Female Flowers Female Flowers Female Flowers	=<2m / 3 0				
	☐ Discolouration ☐ Discolouration ☐ Discolouration ☐ Discolouration ☐ Unknown ☐ None ☐ Wounds	>2m 0 0				
_	Extensive center in crown . Offare a Hydro bos	hadred an	ay at Ecrow			
	Tree # Zone Easting Northing Assess below	livo crown	Metres from badly cankered tree			
	#Epic-Live	#Open #Sooty	☐ < 40 ☐ > 40 ☐ None Found			
1	Crown Class / O O Live Main Stem Length(m) Below crown Seed #Epic-Dead	Root 0 0	Competing Species			
Ì	□ Twig Dieback 3 #Stems □ Branch Dieback 3 #Stems □ Rock Signs Male Flowers Bark Type □ Natural Female Flowers Female Flowers Female Flowers Female Flowers Type □ Natural Female Flowers Female F	=<2m 8 0				
	□ Defoliation □ Discolouration □ Discol	>2m 3 0				
	2 stems dead + broken					
	Tree # Zone Easting Northing	7	Metres from badly cankered tree			
	3 18 4 4 0 28 6 5 0 2 3 3 3 0 Assess below #Epic-Live	live crown	□ < 40 □ > 40 □ None Found			
1	Crown Class Crown % Live Dead #Epic-Dead #Epic-Dead	#Open #Sooty	Competing Species			
1	□ Twig Dieback	=<2m 6 0				
	Defoliation Natural Natural Seed Set Wounds	>2m 5 0				
	Unknown I None					
-	1 stem dead					
	Tree # Zone	live crown	Metres from badly cankered tree			
	Crown Live Main Stem Length(m) #Epic-Live	#Open #Sooty	Competing Species			
2	Class Crown % Below crown Seed #Epic-Dead Twig Dieback 2 #Stems Origin Male Flowers Bark Type	Root 0 0				
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Please enter matching page link code on forms 1 and 2

(Contact Information follows all applicable privacy policies and guidelines)

Please return forms to: Forest Gene Conservation Association Suite 233, 266 Charlotte St. Peterborough, ON, K9J 2V4 www.fgca.net





Butternut Data Collection FORM 2 (2010 Edition)

(PLEASE USE BLOCK LETTERS)

Shaded fields are mandatory for Butternut Health Assessments

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a Butternut Health Assessment

,	Site Code(A,B,Z, AA)	Surveyor ID OO 2	Date (dd/n	nm/yyyy)
· -	Surveyor Last Name		25-	0/-20/9
	Tree ID Numbering: 1,2,3,Starting from 1 f	for each site Northing		
2	G	Main Stem Length(m) Below crown Seed Sutternut Signs Origin Male Flowers	#Epic-Live #Open #Sooty #Epic-Dead Root O O #Ark Type =<2m O O #Callused Wounds >2m O O	Metres from badly cankered tree 40 >40 None Found Competing Species
_				
2	Class Crown % S	Main Stem Length(m) Below crown Seed utternut Signs Origin Male Flowers	Assess below live crown #Epic-Live #Epic-Dead Root #Collused Wounds Park Type Park	Metres from badly cankered tree < 40 > 40 Competing Species
× -	Tree # Zone Easting	Northing		
	Crown Class Crown % Branch Dieback #Stems Defoliation DBH(cm)	Main Stem Length(m) Below crown Seed	#Epic-Live #Open #Sooty #Epic-Dead Root	Metres from badly cankered tree < 40 > 40 None Found Competing Species
_				
	Class Crown % B Twig Dieback #Stems Defoliation Defoliation Defoliation Defoliation Defoliation Defoliation Defoliation Defoliation Defoliation	Main Stem Length(m) Below crown Seed	Assess below live crown #Epic-Live #Open #Sooty #Epic-Dead Root	Metres from badly cankered tree < 40 > 40 None Found Competing Species
	Class Crown % Branch Dieback #Stems Defoliation DBH(cm)	Main Stem Length(m) Below crown Seed	Assess below live crown #Epic-Live #Epic-Dead Root Bark Type # Callused Wounds Assess below live crown #Open #Sooty Root	Metres from badly cankered tree

Please enter matching page link code on forms 1 and 2

Page Link 44 52

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APPENDIX D

Confirmation of Butternut Registration





CONFIRMATION OF REGISTRATION

Form Name: Notice of Butternut Impact

Date Registration Filed: 09/24/2019

Confirmation ID: M-103-5328392570

Version Number: 001

Update Date:

UNIFORM DEVELOPMENTS

117 Centrepointe DR , SUITE, 300 Ottawa, ON K2G5X3

Dear Sir/Madam,

You have registered under section 23.7 of Ontario Regulation Reg. 242/08 of the Endangered Species Act, 2007 and your Notice of Butternut Impact Form has been received by the Ministry of Natural Resources and Forestry for activities impacting Butternut located at:

2112 Bel Air DR Ottawa, ON K2C0W9

This confirmation applies to the 4 Category 2 (retainable) butternut trees identified in the information provided to the Ministry through the Registry and as referenced in the Butternut Health Assessor's Report # 002005.

Please note, you may only kill, harm or take those Category 2 (retainable) butternut trees from the above-referenced report that you have identified in the information provided to the Ministry through the Registry with the following tree number (s): 4; 6; 7; 9.

A copy of this Confirmation of Registration must be kept on the site where the impacts to Butternut are occurring and you are required to show this Confirmation of Registration upon the request of the Ministry. Please refer to Ontario Regulation 242/08 for requirements that apply to your activity.

Any questions related to this registration and/or the Natural Resources Registry should be directed to:

Registry and Approval Services Centre Ministry of Natural Resources and Forestry 300 Water Street Peterborough, ON, K9J8M5 Toll-free: 1-855-613-4256

Toll-free: 1-855-613-4256 E-mail: mnr.rasc@ontario.ca