

Instructions to Butternut Health Experts (BHEs):

Please enter the 6-character BHE Report number: [BRA-697](#) _____

BHE Report numbering format:

BHE Report numbers are to be assigned by the BHE using the first 3 letters of BHE's last name, followed by BHE's own 3-digit report numbering system. If the BHE's last name has fewer than 3 letters, use the full last name and numbers for the remaining characters.

Cover letter to client:

Insert your cover letter to your client here and include the below list of enclosures.

Birks Natural Heritage Consultants, Inc.
23 Herrell Avenue
Barrie, Ontario
L4N 6T5

John Welton
Sunvale Homes
16 Swain Crescent
Collingwood, Ontario
L9Y 5T3

Dear Mr. Welton,

Thank you for allowing Birks Natural Heritage Consultants, Inc. to complete the Butternut Health Assessment (BHA) for the property identified as Part of Lot 40, Concession 8 in the Town of Collingwood. The assessment and supporting documentation has been provided within this report.

If you have any questions, please do not hesitate to contact us by phone or email.

Yours truly,
Birks Natural Heritage Consultants, Inc.

Stephanie Brady, HBES
Ecologist
BHA #697

Enclosures:

1. Information from the Ministry of the Environment, Conservation and Parks about Butternut and the *Endangered Species Act, 2007*
2. Butternut Health Expert's Report, including the completed Butternut Data Collection Form

Species at Risk Branch
40 St. Clair Avenue West
14th Floor
Toronto ON M4V 1M2

Direction des espèces en péril
40, avenue St. Clair Ouest
14^e étage
Toronto ON M4V 1M2

Information for the Property Owner (or person(s) who requested the enclosed Butternut Health Expert's Report):

The enclosed Butternut Health Expert's Report (BHE Report) documents the results of the Butternut health assessment that was conducted by the Butternut Health Expert (BHE) 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 impacted by a proposed activity that are not identified in the enclosed BHE Report, they too must be assessed by a BHE before commencing any actions that may impact those Butternut trees or their habitat.

Butternut (*Juglans cinerea*) is listed as an endangered species in Schedule 2 of Ontario Regulation (O. Reg.) 230/08 "the Species at Risk in Ontario List". As an endangered species, the *Endangered Species Act, 2007* (ESA) prohibits adversely impacting Butternut and its habitat. A permit or agreement under the ESA is required before engaging in an activity that is otherwise prohibited under the ESA. The activity may be eligible for the Butternut conditional exemption in Part V of O. Reg. 830/21, provided the requirements of the regulation are met.

If the proposed activity is eligible for the conditional exemption in Part V of O. Reg. 830/21, the next step is to submit the BHE Report and the Butternut Data Collection Form enclosed in this package to the Ministry of the Environment, Conservation and Parks (MECP).

If the enclosed BHE Report does not identify which Butternut tree(s) are proposed to be killed, harmed or taken and the reasons for doing so (e.g., if "unknown" is indicated in Table 1) or if the information in the last two columns of Table 1 has changed since the date this BHE Report was produced, **do not edit the BHE Report to update this information**. Instead, the report must be submitted together with 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 BHE Report to MECP.

The BHE Report must be submitted to MECP at least 30 days before registering an activity in respect of the Butternut conditional exemption. MECP may need to examine the Butternut trees subject to the report during this 30-day period. **Adversely impacting Butternut trees during this 30-day period or before registration is completed is prohibited by the ESA**. Further, the conditional exemption for Butternut does not apply unless the requirements of Part V of O. Reg. 830/21 are being followed.

If the proposed activity is eligible for the Butternut conditional exemption, you may register the proposed activity using the “**Notice of Butternut Impact**” form after the 30-day period has elapsed.

If the proposed activity is not eligible for a regulatory exemption, please contact MECP to determine whether the proposed activity would require a permit or agreement under the ESA in order to proceed.

Please retain this information and a copy of the BHE Report for your records, along with any other documentation you may receive from MECP should an examination of the trees occur.

This information should not be relied upon to determine legal obligations. To determine your legal obligations, consult the *Endangered Species Act, 2007* and the relevant regulations made thereunder. These may be found at www.ontario.ca/laws. If legal advice is required, consult a legal professional. In the event of an error on this template or a conflict between this template and any applicable law, the law prevails.

If you have any questions, please contact MECP at SAROntario@ontario.ca.

Butternut Health Expert's Report (BHE Report)

BHE Report Number: [BRA-697](#)

Butternut Health Expert Contact Information

Name of Butternut Health Expert

Last Name

[BRADY](#)

First Name

[STEPHANIE](#)

Mailing Address

Unit Number

Street Number

[23](#)

Street Name

[HERRELL AVENUE](#)

PO Box

City/Town

[BARRIE](#)

Province

[ONTARIO](#)

Postal Code

[L4N 6T5](#)

Telephone Number

[705-305-9102](#)

Email Address

sbrady@birksnhc.ca

Summary of qualifications as a Butternut Health Expert

a) expertise in relation to butternut

[Stephanie has received her BHA/BHE certification in 2019 and has since undertaken an number of health assessment of Butternut trees in Ontario, as part of Environmental Impact Studies. Stephanie has demonstrated experience in recognizing signs of canker in addition to general arboriculture knowledge.](#)

b) expertise, education, training and experience necessary to assess the health of butternut trees

[See above.](#)

Property Owner Contact Information

Name of Property Owner (or representative)

Last Name

[Welton](#)

First Name

[John](#)

Mailing Address

Unit Number

Street Number

[17](#)

Street Name

[Swain Crescent](#)

PO Box

Lot Number

Concession

Township

Rural Route

City/Town

[Collingwood](#)

Province

[Ontario](#)

Postal Code

[L9Y 5T3](#)

Telephone Number

[416-346-0883](#)

Email Address

johnswelton@sunvalehomes.com

Site Location

Unit Number

Street Number

Street Name

PO Box

Lot Number

[40](#)

Concession

[8](#)

Township

Rural Route

City/Town

[Collingwood](#)

Province

Postal Code

Additional Site Location Information

[From Poplar Avenue, north on Portland Street, east on Kirby Avenue. Site accessed via municipal right-of-way. Property is predominately agriculture in nature, with winter wheat being cropped. A ravine is present, bordering the agricultural field, where a total of 10 Butternut trees have been documented and assessed.](#)

Date(s) of Butternut health assessment

Start Date (yyyy/mm/dd) 2025/07/09

End Date (yyyy/mm/dd) 2025/07/09

Date BHE Report prepared (yyyy/mm/dd) 2025/07/09

Map datum used: ☒ NAD83 ☐ WGS84

Total number of trees assessed in this BHE Report 10

The assessed trees were numbered on site using White Paint

The numbers at the site correspond to the tree identification numbers referenced in this report.

This BHE Report includes the following tables:

- Table 1: Butternut trees assessed by the BHE
- Table 2: Trees determined by the BHE to be Butternut hybrids
- Table 3: Summary of Butternut health assessment results

Table 1: Butternut trees assessed by the BHE

Tree ID #	UTM coordinates	Accuracy (+/-)	Category ¹ (1, 2 or 3)	Tree stem diameter ² (cm)	Is tree stem shorter than 1.37 m? (Yes/No)	Cultivated? (Yes/No)	Proposed to be: (killed, harmed, taken, or unknown ³)	If tree is proposed to be killed, harmed or taken, indicate reason tree is to be killed, harmed or taken, if known
01	17T 563530 4925886	3 m	1	11	No	No	unknown	
02	17T 563544 4925886	3 m	3	35	No	No	unknown	
03	17T 563551 4925891	3 m	3	30	No	No	unknown	
04	17T 563565 4925895	3 m	3	59	No	No	unknown	
05	17T 563574 4925895	3 m	2	71	No	No	unknown	
06	17T 563638 4925930	3 m	1	44	No	No	unknown	
07	17T 563585 4925904	3 m	2	54	No	No	unknown	
08	17T 563650 4925932	3 m	1	23	No	No	unknown	
09	17T 563648 49259311	3 m	3	23	No	No	unknown	
10	17T 563682 4926009	3 m	1	11	No	No	unknown	

¹ Details regarding the extent to which the tree is affected by Butternut Canker is presented in the Butternut Data Collection Form that accompanies this BHE Report.

² Diameter of the tree stem rounded to nearest cm, measured in accordance with the Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the *Endangered Species Act, 2007*

³ In this column, “unknown” indicates that at the time of assessment and reporting, there are no proposals to kill, harm or take this tree that are known to the BHE.

Table 2: Trees determined by the BHE to be Butternut hybrids

Tree ID #	UTM coordinates	Method used (genetic testing or field identification)	Additional Comments on Method Used

Table 3: Summary of Butternut health assessment results

Result	Total number of trees in this category	Information for persons planning activities that may impact Butternut
Category 1	4	Category 1 Butternut tree — the Butternut tree is affected by Butternut Canker to such an advanced degree that retaining the tree would not support the protection or recovery of Butternut trees in the area in which the tree is located.
		If the proposed activity will kill, harm or take one or more Butternut trees of any category (including Category 1), the BHE Report must be submitted to MECP at SARontario@ontario.ca.
Category 2	2	Category 2 Butternut tree — the Butternut tree is not affected by Butternut Canker or the Butternut tree is affected by Butternut Canker but the degree to which it is affected is not as advanced as a Category 1 Butternut tree and retaining the tree could support the protection or recovery of Butternut trees in the area in which the tree is located.
		Activities that may kill, harm or take up to a maximum of fifteen (15) Category 2 trees may be eligible for the conditional exemption in Part V of Ontario Regulation 830/21. Refer to the regulation for eligibility conditions and requirements that must be fulfilled.
		If the proposed activity will kill, harm or take more than fifteen (15) Category 2 trees, contact MECP for information on how to seek an ESA authorization (e.g., a permit).

Result	Total number of trees in this category	Information for persons planning activities that may impact Butternut
Category 3	4	- Category 3 Butternut tree — the Butternut tree may be useful in determining sources of resistance to Butternut Canker. - Activities that may kill, harm or take up to a maximum of five (5) Category 3 trees may be eligible for the conditional exemption in Part V of Ontario Regulation 830/21. Refer to the regulation for eligibility conditions and requirements that must be fulfilled. - If the proposed activity will kill, harm or take more than five (5) Category 3 trees, contact MECP for information on how to seek an ESA authorization (e.g., a permit).
Cultivated		An activity that will kill, harm or take a cultivated Butternut tree that was required to be planted to fulfil a condition of an ESA permit or agreement, or a conditional exemption, is not eligible for the exemption for cultivated trees that is provided by subsection 25 (5) of O. Reg. 830/21. Refer to the regulation for eligibility conditions.
Hybrid		Hybrid Butternut trees are not protected under the ESA but impacts to these trees may be subject to local municipal by-laws and other legislation.

Additional Information on Cultivated Tree Determination

Please note:

- A BHE Report that is submitted to MECP must include the completed Butternut Data Collection Form. As appropriate, please also ensure additional relevant documentation to support the assessment (e.g., completed Data Sheets for Field Identification of Butternut Hybrids, evidence that the Butternut was cultivated) and all relevant maps and photographs are provided.
- During the 30-day period that follows the submission of this BHE Report to MECP, no Butternut trees (of any category) may be killed, harmed or taken. MECP may need to examine the Butternut trees subject to the report during this 30-day period.

Butternut Health Expert's Comments

[Please see attached photographic appendix.](#)

Butternut (*Juglans cinerea*) is listed as an endangered species in Schedule 2 of Ontario Regulation 230/08 “the Species at Risk in Ontario List”. As an endangered species, the *Endangered Species Act, 2007* (ESA) prohibits adversely impacting Butternut and its habitat. A permit or agreement under the ESA is required before engaging in an activity that is otherwise prohibited under the ESA. The activity may be eligible for the Butternut conditional exemption in Part V of Ontario Regulation 830/21, provided the requirements of the regulation are met. For more information please refer to the following links:

[Endangered Species Act, 2007](#)

[Ontario Regulation 830/21 \(Exemptions – Species Subject to Species Conservation Charges\)](#)

[Ontario Regulation 230/08 \(Species at Risk in Ontario List\)](#)

[Ontario Regulation 242/08 \(General Regulation\)](#)

[Information about ESA permits and authorizations](#)

[Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the Endangered Species Act, 2007](#)

A Butternut Health Expert’s Report (BHE Report) completed by a “Butternut Health Expert” (BHE) as defined in section 21 of Ontario Regulation 830/21 is typically required as part of an application to the Ministry of the Environment, Conservation and Parks (MECP) for a permit or agreement under the ESA and is required in respect of the conditions of the Butternut conditional exemption in Part V of O. Reg. 830/21. **This Butternut Data Collection Form must be completed by the BHE and included in their BHE Report.**

This form should not be relied upon to determine your legal obligations. To determine your legal obligations, consult the *Endangered Species Act, 2007* and the relevant regulations made thereunder. These may be found at www.ontario.ca/laws. If legal advice is required, consult a legal professional. In the event of an error on this form or a conflict between this form and any applicable law, the law prevails.

Notice of Collection and Use

Personal information on this form is collected under the authority of Section 53 of the ESA and section 38 of the *Freedom of Information and Protection of Privacy Act*. Forms that have been submitted to MECP may be used by MECP staff to contact the property owner (or person acting on their behalf) to request permission to access the assessed trees for the purpose of examining the trees or to contact the BHE who prepared the BHE Report. Questions about the use of your personal information should be directed to the Species at Risk Branch, Ministry of the Environment, Conservation and Parks, 300 Water Street, Peterborough Ontario, K9J 3C7 at speciesatriskregistry@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Butternut Health Expert’s Report Number*	Start Date of Butternut Health Assessment (yyyy/mm/dd)*	End Date of Butternut Health Assessment (yyyy/mm/dd)*
697	2025/07/09	2025/07/09

Butternut Health Expert (BHE) Contact Information

Last Name*	First Name*	
Brady	Stephanie	
Telephone Number*	Alternate Telephone Number	Email Address*
705-305-9102		sbrady@birksnhc.ca

Summary of Qualifications as a Butternut Health Expert*

Stephanie has received her BHA/BHE certification in 2019 and has since undertaken an number of health assessment of Butternut trees in Ontario, as part of Environmental Impact Studies. Stephanie has demonstrated experience in recognizing signs of canker in addition to general arboriculture knowledge.

Property Owner Contact Information

Last Name*		First Name*	
Welton		John	
Company Name			
Sunvale Homes			
Mailing Address*			
Unit Number	Street Number	Street Name	PO Box
	17	Swain Crescent	
Lot Number	Concession	Township	Rural Route
City/Town	Province	Postal Code	
Collingwood	Ontario	L9Y 5T3	
Telephone Number *	Alternate Telephone Number	Email Address	
416-346-0883		johnzwelton@sunvaleshomes.com	

Butternut Tree(s) Location Information

Address*	☐ Select if location of Butternut is the same as the property owner's mailing address		
Unit Number	Street Number	Street Name	PO Box
Lot Number	Concession	Township	Rural Route
40	8		
City/Town	Province	Postal Code	
Collingwood	Ontario		

General description of area containing Butternut (select one)

☐ Natural ☐ Rural ☒ Urban - Suburban ☐ Industry / Resource Extraction Area

Soil drainage (select one)

☒ Well Drained ☐ Moderately Drained ☐ Poorly Drained ☐ Unknown

Have any of the Butternut at this site produced seeds?

☒ Yes ☐ No ☐ Unknown

General Comments

Property is predominately agriculture in nature, with winter wheat being cropped. A ravine is present, bordering the agricultural field, where a total of 10 Butternut trees have been documented and assessed.

Butternut Tree Data 1

Tree Identification Number* <u>01</u>		Date of Assessment (yyyy/mm/dd)* <u>2025/07/09</u>	
UTM Zone* <u>17</u>		Northings* <u>4925886</u>	Easting* <u>563530</u>
Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid			
Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No			
Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems			
Live Crown %* <u>80</u>		Tree Stem Diameter (cm)* <u>11</u>	
Number of sooty cankers*		At or below 2m (the lower stem) <u>4</u>	Above 2m <u>2</u>
Number of open cankers*		At or below 2m (the lower stem) <u>5</u>	Above 2m <u>0</u>
			At the root (root flares) <u>1</u>
			At the root (root flares) <u>0</u>
Metres from badly cankered tree* ☐ 40 metres or less ☒ Greater than 40 metres ☐ None found			
Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun			
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown			
Signs of Stress ☐ Twig dieback ☒ Branch dieback ☐ Defoliation ☒ Discolouration			
Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown			
Below Crown		Number of stems <u>1</u>	
		Main stem length (m) below crown <u>3</u>	
		Number of epic-live <u>0</u>	
		Number of epic-dead <u>0</u>	
		Number of callused wounds <u>0</u>	
Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges			
Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown			
Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian			
Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest			
If Savannah-Woodland or Forest selected, select one option from both groups:			
☒ Deciduous ☐ Coniferous ☐ Mixed			
☐ Climax ☐ Regenerating			
Does this tree occupy edge habitat? ☒ Yes ☐ No			
If "Yes", select which edge habitat:			
☐ Road ☐ Trail ☐ Utility corridor			
☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody			
Competing Species 1. <u>ACERN</u> 2. <u>RHAMUCA</u> 3. <u>RIPARVI</u>			

Comments about this tree
[See attached photographic appendix.](#)

Butternut Tree Data 2

Tree Identification Number* 02 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925886 Easting* 563544

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☐ Single Stem ☒ Multiple Stems

Live Crown %* 90 Tree Stem Diameter (cm)* 35

Number of sooty cankers* At or below 2m (the lower stem) 4 Above 2m 0 At the root (root flares) 2

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 0

Metres from badly cankered tree* ☒ 40 metres or less ☐ Greater than 40 metres ☐ None found

Crown Class ☒ Dominant, full sun ☐ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☐ Defoliation ☒ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 2 Main stem length (m) below crown 16

Number of epic-live Number of epic-dead 0 Number of callused wounds 1

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☐ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERN 2. TATARIC 3. RIPARVI

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 3

Tree Identification Number* 03 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925891 Easting* 563551

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 90 Tree Stem Diameter (cm)* 30

Number of sooty cankers* At or below 2m (the lower stem) 4 Above 2m 2 At the root (root flares) 2

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 1

Metres from badly cankered tree* ☒ 40 metres or less ☐ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☐ Branch dieback ☐ Defoliation ☒ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 6
Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 1

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. CRATAEG 2. ACERN 3. _____

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 4

Tree Identification Number* 04 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925895 Easting* 563565

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 80 Tree Stem Diameter (cm)* 59

Number of sooty cankers* At or below 2m (the lower stem) 4 Above 2m 1 At the root (root flares) 2

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 0

Metres from badly cankered tree* ☒ 40 metres or less ☐ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☐ Defoliation ☒ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 5

Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 0

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☐ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. RIPARVI 2. ACERN 3. _____

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 5

Tree Identification Number* 05 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925895 Easting* 563574

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 90 Tree Stem Diameter (cm)* 71

Number of sooty cankers* At or below 2m (the lower stem) 8 Above 2m 7 At the root (root flares) 5

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 1

Metres from badly cankered tree* ☐ 40 metres or less ☒ Greater than 40 metres ☐ None found

Crown Class ☒ Dominant, full sun ☐ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☐ Defoliation ☒ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 10

Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 0

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERN 2. _____ 3. _____

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 6

Tree Identification Number* 06 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925930 Easting* 563638

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 70 Tree Stem Diameter (cm)* 44

Number of sooty cankers* At or below 2m (the lower stem) 10 Above 2m 3 At the root (root flares) 4

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 1 At the root (root flares) 2

Metres from badly cankered tree* ☐ 40 metres or less ☒ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☐ Defoliation ☐ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 15

Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 0

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERN 2. FRAXAM 3. _____

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 7

Tree Identification Number* 07 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925904 Easting* 563585

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 80 Tree Stem Diameter (cm)* 54

Number of sooty cankers* At or below 2m (the lower stem) 3 Above 2m 0 At the root (root flares) 1

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 1

Metres from badly cankered tree* ☐ 40 metres or less ☒ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☐ Defoliation ☒ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 8
Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 0

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERN 2. ULMUSAM 3. SALIX

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 8

Tree Identification Number* 08 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925932 Easting* 563650

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 70 Tree Stem Diameter (cm)* 24

Number of sooty cankers* At or below 2m (the lower stem) 3 Above 2m 6 At the root (root flares) 2

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 1

Metres from badly cankered tree* ☒ 40 metres or less ☐ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☒ Defoliation ☐ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☒ Seed set ☐ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 12

Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 8

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERN 2. FRAXAM 3. _____

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 9

Tree Identification Number* 09 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4925931 Easting* 563648

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 80 Tree Stem Diameter (cm)* 23

Number of sooty cankers* At or below 2m (the lower stem) 3 Above 2m 0 At the root (root flares) 2

Number of open cankers* At or below 2m (the lower stem) 0 Above 2m 0 At the root (root flares) 1

Metres from badly cankered tree* ☒ 40 metres or less ☐ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☐ Branch dieback ☐ Defoliation ☒ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 3

Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 3

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERN 2. _____ 3. _____

Comments about this tree

[See attached photographic appendix.](#)

Butternut Tree Data 10

Tree Identification Number* 10 Date of Assessment (yyyy/mm/dd)* 2025/07/09 ☒ Select if Date is same as tree above

UTM Zone* 17 Northing* 4926009 Easting* 563682

Is this tree a Butternut tree or a putative hybrid? * ☒ Butternut ☐ Putative Hybrid

Is the stem of this tree shorter than 1.37 m? * ☐ Yes ☒ No

Is this a single or multi-stemmed tree? * ☒ Single Stem ☐ Multiple Stems

Live Crown %* 60 Tree Stem Diameter (cm)* 11

Number of sooty cankers* At or below 2m (the lower stem) 9 Above 2m 1 At the root (root flares) 2

Number of open cankers* At or below 2m (the lower stem) 2 Above 2m 1 At the root (root flares) 1

Metres from badly cankered tree* ☐ 40 metres or less ☒ Greater than 40 metres ☐ None found

Crown Class ☐ Dominant, full sun ☒ Co-dominant, two sides in the sun
☐ Intermediate, sun only from above ☐ Suppressed, shaded crown

Signs of Stress ☒ Twig dieback ☒ Branch dieback ☐ Defoliation ☐ Discolouration

Seed Signs ☐ Mature stamens or pollen ☐ Receptive pistils ☐ Seed set ☒ None ☐ Unknown

Below Crown Number of stems 1 Main stem length (m) below crown 2

Number of epic-live 0 Number of epic-dead 0 Number of callused wounds 0

Bark type: ☐ Deep furrows/Narrow ridges ☒ Shallow furrows/Wide ridges

Tree Origin ☒ Naturally-occurring ☐ Planted (cultivated) ☐ Unknown

Is this tree located in an area that is upland, wetland, or riparian? ☒ Upland ☐ Wetland ☐ Riparian

Vegetation Community ☐ Open ☐ Shrub thicket ☐ Savannah - Woodland ☒ Forest

If Savannah-Woodland or Forest selected, select one option from both groups:

☒ Deciduous ☐ Coniferous ☐ Mixed

☐ Climax ☐ Regenerating

Does this tree occupy edge habitat? ☒ Yes ☐ No

If "Yes", select which edge habitat:

☐ Road ☐ Trail ☐ Utility corridor

☐ Fencerow ☒ Forest/woodlot edge ☐ Watercourse/waterbody

Competing Species 1. ACERS 2. ACERN 3. _____

Comments about this tree

[See attached photographic appendix.](#)

BHE Report Number 697									Start Date of Butternut Health Assessment (yyyy/mm/dd) 2025/07/09					End Date of Butternut Health Assessment (yyyy/mm/dd) 2025/07/09						
Total Number Butternut Trees in BHE Report 10									Butternut Health Expert's Name Brady, Stephanie											
Property Owner/Client Name Welton, John										Property Address 40 8 Collingwood Ontario										
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
Tree #	Live Crown %	Tree stem diameter (cm)	# bole cankers (BC)				# root flare cankers (RF)		40 m or less from cankered tree? (Y or N)	Circ. (cm) = Pi * tree stem diameter	Total BC Width (cm) = (D * 2.5) + (E * 2.5) + (F * 5) + (G * 5)	Total RF Width (cm) = (H * 2.5) + (I * 5)	Total BC Width % of Circ. = L / K * 100	Total RF Width % of Circ. = M / K * 100	Total BC + RF Width % of 2 * Circ. = (N + O) / 2	Tree Categories: 1, 2, or 3				
			Sooty (S) (will be assigned 2.5 cm per canker) Open (O) (will be assigned 5 cm per canker)													= Cat 2 if B >= 50 and N=0 else = Cat 1	= Cat 2 if B > 70 and P < 20 else = Cat 1	= Cat 2 if B > 70 and N < 20 else = Cat 1	Preliminary tree call = Cat 2 if Q= Cat 2 or R= Cat 2 or S= Cat 2 else = Cat 1	Final tree call = Cat 3 if T= Cat 2 and C > 19 and J='Y' else T
			S <= 2m	S > 2m	O <= 2m	O > 2m	S	O												
1	80	11	4	2	5	0	1	0	N	34.54	40.0	2.5	115.81	7.24	61.52	1	1	1	1	1
2	90	35	4	0	0	0	2	0	Y	109.9	10.0	5.0	9.1	4.55	6.83	1	2	2	2	3
3	90	30	4	2	0	0	2	1	Y	94.2	15.0	10.0	15.92	10.62	13.27	1	2	2	2	3
4	80	59	4	1	0	0	2	0	Y	185.26	12.5	5.0	6.75	2.7	4.72	1	2	2	2	3
5	90	71	8	7	0	0	5	1	N	222.94	37.5	17.5	16.82	7.85	12.34	1	2	2	2	2
6	70	44	10	3	0	1	4	2	N	138.16	37.5	20.0	27.14	14.48	20.81	1	1	1	1	1
7	80	54	3	0	0	0	1	1	N	169.56	7.5	7.5	4.42	4.42	4.42	1	2	2	2	2
8	70	24	3	6	0	0	2	1	Y	75.36	22.5	10.0	29.86	13.27	21.57	1	1	1	1	1
9	80	23	3	0	0	0	2	1	Y	72.22	7.5	10.0	10.38	13.85	12.12	1	2	2	2	3
10	60	11	9	1	2	1	2	1	N	34.54	40.0	10.0	115.81	28.95	72.38	1	1	1	1	1



Butternut Tree #01 Main Stem



Butternut Tree #01 Canopy





Butternut Tree #02 Main Stem



Butternut Tree #02 Canopy





Butternut Tree #03 Main Stem



Butternut Tree #03 Canopy





Butternut Tree #04 Main Stem



Butternut Tree #04 Canopy





Butternut Tree #05 Main Stem



Butternut Tree #05 Canopy





Butternut Tree #06 Main Stem



Butternut Tree #06 Canopy





Butternut Tree #07 Main Stem



Butternut Tree #07 Canopy





Butternut Tree #08 Main Stem



Butternut Tree #08 Canopy





Butternut Tree #09 Main Stem



Butternut Tree #09 Canopy



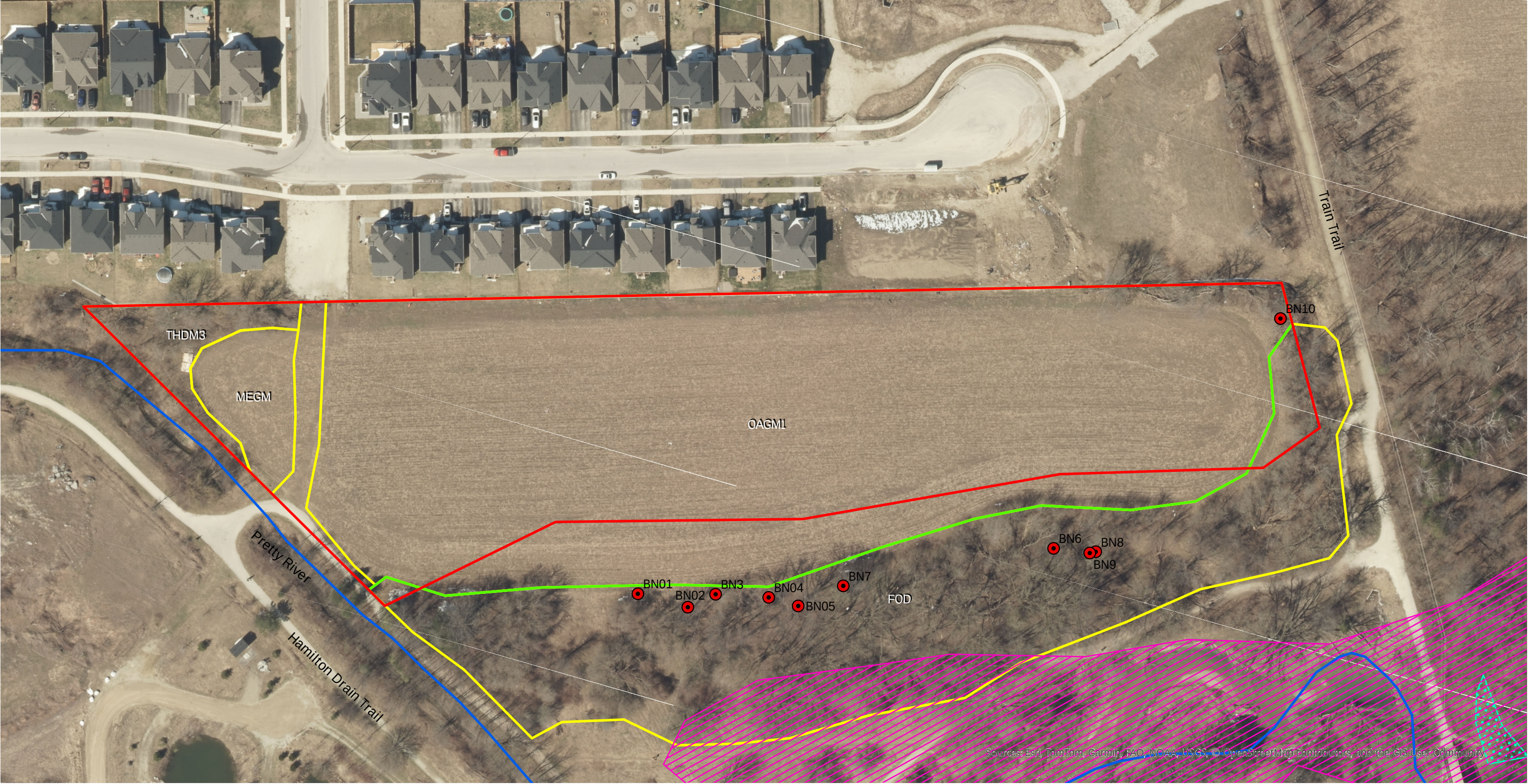


Butternut Tree #10 Main Stem



Butternut Tree #10 Canopy





Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Pretty River Reserve
Town of Collingwood

Property Limit
 Watercourse (Ontario GeoHub)

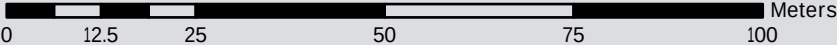
Butternut Location (Endangered)
 Woodland Limit (Birks NHC)

ELC Vegetation Communities
FOD Deciduous Forest
THDM3 Dry-Fresh Deciduous Hedgerow Thicket
MEGM Graminoid Meadow
OAGM1 Annual Row Crops

Figure 2:
Existing Conditions



MAP DRAWING INFORMATION:
DATA PROVIDED BY: ESRI CANADA
MAP CREATED BY: SB
MAP CHECKED BY: BB
MAP PROJECTION: NAD 1983 UTM ZONE 17N



FILE LOCATION:
Path: C:\Users\S. Brady\BirksNHC\Birks NHC Team for all - Documents\Project Folders\04 - SBrady Projects\ArcGIS - Projects here\Projects - here\04-016-2024 Pretty River Estates
PROJECT: 04-016-2024 STATUS: DRAFT DATE: 07/09/2025