

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
3. Original data forms
4. Electronic and printed 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 **not** 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: 455-006

Melissa Fuller – BHA #455
 642 Welham Road
 Barrie, Ontario
 L4N 9A1
 (705) 721-8451
 mfuller@azimuthenvironmental.com

Parkbridge Lifestyle Communities Inc.
 85 Theme Park Drive
 Wasaga Beach, Ontario
 L9Z 1X7
 (705) 429-8630
 rwagner@parkbridge.com

Site location: 161 Lakeshore Drive, Craigeith, Ontario

Date(s) of Butternut health assessment: August 23, 2017

Date BHA Report prepared: August 23, 2017

Map datum used: x NAD83 WGS84

Total number of trees assessed in this BHA Report: 15

The assessed trees were numbered on site using white paint. 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)	dbh ³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown ⁴ , 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	553781, 4930041	2	53	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)	dbh ³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown ⁴ , 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:
2	553790, 4930069	2	47	N	Unknown	
3	553863, 4929950	1	42	N	Unknown	
4	553934, 4929880	2	90	N	Unknown	
5	554029, 4929856	2	45	N	Unknown	
6	554037, 4929858	2	47	N	Unknown	
7	554049, 4929858	2	24	N	Unknown	
8	554071, 4929845	2	31	N	Unknown	
9	554089, 4929862	2	42	N	Unknown	
10	554105, 4929850	2	25	N	Unknown	
11	554109, 4929839	2	30	N	Unknown	
12	554169, 4929784	2	53	N	Unknown	
13	554196, 4929792	1	22	N	Unknown	
14	554097, 4929788	2	45	N	Unknown	
15	553712, 4929937	2	33	N	Unknown	

Table 2: Trees Determined by BHA to be Butternut Hybrids

Tree #	UTM coordinates	Method used (genetic testing or field identification):
	N/A	

Table 3: Summary of Assessment Results

Result:	Total #:	Important information for persons planning activities that may affect Butternut:
Category 1	2	<ul style="list-style-type: none"> 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 after 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, 2007</i>”.
Category 2	13	<ul style="list-style-type: none"> 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 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/regis/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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	0	<ul style="list-style-type: none"> 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:

-Trees 12 and 13 not on property and landowner will not develop within 25 metres of trees.

-Landowner may apply to have trees 5, 6, 14 removed in the future. Site plan may incorporate these trees for retention if possible.

- Trees 1-13 were previously assessed by Drew West (ID#172, in report #172-001). No changes have been made to the assessment of these trees. Tree 14 was reassessed in 2017 by Melissa Fuller. Tree 15 was newly assessed in 2017 by Melissa Fuller.

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.



Explanation of Butternut Categories under Ontario Regulation 242/08

On July 1 2013, Ontario Regulation 242/08, (the General Regulation under the Endangered Species Act, 2007) was amended to include a new subsection pertaining to Butternut (s. 23.7). This amendment resulted in revisions to the rules that Butternut Health Assessors (BHAs) must follow when conducting health assessments of Butternut trees.

The categories for classification of trees have broadened from the previous categories of 'retainable' and 'non-retainable' to include a third category for trees that may be useful in determining sources of resistance to Butternut Canker. The exemptions from ESA prohibitions that are provided by section 23.7 of the regulation are not applicable to Category 3 trees.

Butternut Categories, as defined in section 23.7 of Ontario Regulation 242/08:

Category 1: 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.

Category 2: 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 too advanced and retaining the tree could support the protection or recovery of butternut trees in the area in which the tree is located.

Category 3: the butternut tree may be useful in determining sources of resistance to butternut canker.

Summary of Categories:

Category 1: Non-retainable Butternut

Category 2: Retainable Butternut

Category 3: A Butternut is judged to be Category 3 if the Butternut exhibits resistance to Butternut Canker, based on observation that:

- (3)(a) It satisfies the criteria for Category 2,
- (3)(b) It has a breast height diameter of at least 20 cm, and
- (3)(c) It occurs within 40 m of at least one Butternut tree which is severely affected by Butternut Canker.

As scientific research provides greater understanding of resistance to Butternut Canker, other criteria for determining the categorization of a Butternut tree may be adopted. The BHA must ensure they are using the most up to date versions of the Butternut Assessment Guidelines and all Butternut health assessment materials. To receive updates from the Ministry, BHAs are required to keep their contact information up to date, as specified in the BHA Protocol.

For more information on the regulation changes pertaining to Butternut:

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

Contact: esapermits@ontario.ca

Butternut Trees on Your Property

INTRODUCTION

The Ministry of Natural Resources is streamlining and automating its approvals processes for natural resource-related activities – with the goal of providing individuals and businesses with faster and more efficient service delivery.

This fact sheet provides information about regulatory provisions under the Endangered Species Act (ESA) for activities that may impact butternut trees.

The ESA provides protection for endangered or threatened species in Ontario. Some activities that would otherwise contravene the ESA may be eligible to proceed without a permit from the Ministry of Natural Resources provided that regulatory conditions for the ongoing protection of species at risk and their habitats are met.

ACTIVITIES THAT MAY AFFECT BUTTERNUT

Anyone intending to cut down or harm butternut trees may be able to follow the rules set out in the regulation, depending on the health of the trees as determined by a qualified butternut health assessor and the number of trees impacted. In some cases, this will include a requirement for the person to register with the Ministry of

Natural Resources. A permit under the ESA is not required if the rules in regulation are followed for all eligible activities.

What is a “qualified butternut health assessor?”

A butternut health assessor is a person designated by the Ministry of Natural Resources for the purpose of assessing whether, and the extent to which, butternut trees are affected by a disease called butternut canker.

What are the categories for butternut trees?

A qualified butternut health assessor must inspect and report on the tree, and then assign it to one of three categories, based on the tree’s condition or value as a genetic resource. The categories are:

- Category 1: the tree is in an advanced state of disease from butternut canker and is considered “non-retainable.”
- Category 2: the tree does not have butternut canker, or the disease is not as advanced and the tree is considered “retainable.”
- Category 3: the tree may be useful in determining sources of resistance to butternut canker and is considered “archivable.” This regulation does not apply to Category 3 trees.

2 Butternut Trees on Your Property

What activities are eligible?

This section may apply to anyone who is proposing an activity that may have an impact on a butternut tree. The butternut must be assessed by a qualified butternut health assessor, and the regulation may apply depending on the number of trees proposed to be affected, and the category of the tree.

A person may be eligible if the activity affects Category 1 trees or 10 or fewer Category 2 trees.

A person is not eligible for the regulation and must obtain an ESA authorization if the activity affects a Category 3 tree, or more than 10 Category 2 trees.

What activities are not eligible?

- A person cannot affect more than 10 Category 2 trees identified in the butternut health assessors report.
- The regulation does not apply if a person has been previously exempted to remove 10 butternut trees, identified by a butternut health assessor as Category 2 trees and the location of the trees are in the same area or close proximity, the person is proposing to have an impact on additional butternut trees for the same or similar reasons.

What are the rules in regulation?

At least 30 days before any butternut is killed, harmed or taken:

- A designated butternut health assessor must;
- complete an assessment for each butternut tree in accordance with the “Butternut Assessment

Guidelines: Assessment of Butternut Tree Health for the Purposes of the Endangered Species Act, 2007” published by the Ministry of Natural Resources and designate it as Category 1, 2, or 3;

- provide a written report of the assessment in accordance with those guidelines.
- The person proposing to carry out the activity must send the report of the butternut health assessor to the appropriate MNR District Manager and allow MNR staff to access the site during that time, if requested.

After the 30 day period has passed, the person may carry out activities on any Category 1 trees identified in the report.

If 10 or fewer Category 2 trees are affected (and the activity is not otherwise ineligible), the person carrying out the activity must:

- Register using the [Notice of Butternut Impact](#) form on the Registry.
- Follow the rules in regulation including:
 - Plant replacement trees to benefit butternut using best management practices outlined in the regulation.
 - Conduct monitoring and tending of the seedlings that are planted.
 - Keep required records.

Please refer to **Legal/Technical Background** below for a summary of these conditions.

3 Butternut Trees on Your Property

LEGAL/TECHNICAL BACKGROUND

The following is a summary of the conditions in the regulation that must be fulfilled to allow eligible activities, and is for information purposes only. Please refer to [O.Reg. 242/08 section 23.7](#) at e-laws.gov.on.ca for the full legal text.

Summary of Conditions

Actions to Benefit Butternut:

The person must provide a benefit for butternut by carrying out these activities:

- follow planting ratios as described in the regulation for replacing the trees, based on the size of the tree(s) and whether the tree is being killed and taken or harmed;
- follow the rules in regulation regarding seed origin, timing of planting, soil characteristics, companion trees plantings and spacing requirements; and,
- replace planted butternut that die within two years of planting the seedling.

Monitoring and Tending:

The person must monitor and tend the planted butternut trees by following requirements described in the regulation:

- monitor planted trees once annually for two years between May 15 and September 20 to assess the health of each tree;
- tend each butternut tree planted once a week during the first growing season (May 15 – September 20) which includes maintenance of tree guards, vegetation control and watering; and,

- tend each butternut tree planted in the second growing season as required by completing vegetation control and watering.

Records:

The person must maintain a record of planting, monitoring and tending activities for every planted butternut tree and provide this record to MNR should it be requested. This record must include planting dates, dates and description of monitoring and tending activities and the health status of each tree, including any signs of butternut canker.

IMPORTANT LINKS

For more information about Ontario's species at risk, visit ontario.ca/speciesatrisk.

FOR MORE INFORMATION

1-855-613-4256

Email: mnr.rasc@ontario.ca

BHA Tree Analysis (version: December 2013)

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

BHA Report #	1	Assessment Date(s)	05-Jul-16				Total # Butternut Trees in BHA Report	14																		
BHA ID #	172	BHA Name	Drew West																							
Landowner / Client Name		Parkbridge Lifestyle Communities Inc.																								
Property Location		161 Lakeshore Drive, Craighleith, Ontario																								
input field data										automatic calculations from field data						Categories:										
Tree #	Live Crown %	Tree dbh (cm)	# bole cankers				# root flare (RF) cankers		Y or N <40 m from cankered tree?	Circ. (cm) = Pi x dbh	total bole canker width (sooty x 2.5 + open x 5)	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	LC% >= 50 & BC% = 0	LC% >70 & BRC% <20	LC% >70 & BC% <20	Preliminary tree call	FINAL TREE CALL a Cat 2, dbh>20cm <40m from a Cat 1						
			sooty (S) (will be assigned 2.5 cm per canker)		open (O) (will be assigned 5 cm per canker)		RF S	RF O													Circ (cm)	BC (cm)	RC (cm)	BC%	RC%	BRC%
			S <2 m	S >2 m	O <2 m	O >2 m																				
1	75	53	6	1	0	0	10	5	n	166.4	17.5	50.0	10.5	30.0	20.3	1	1	2	2	2						
2	90	47	2	2	0	1	1	0	n	147.6	15.0	2.5	10.2	1.7	5.9	1	2	2	2	2						
3	60	42	10	5	10	5	10	10	n	131.9	112.5	75.0	85.3	56.9	71.1	1	1	1	1	1						
4	90	90	0	0	0	0	0	0	n	282.6	0.0	0.0	0.0	0.0	0.0	2	2	2	2	2						
5	90	45	0	0	0	0	0	0	n	141.3	0.0	0.0	0.0	0.0	0.0	2	2	2	2	2						
6	90	47	0	0	0	0	0	0	n	147.6	0.0	0.0	0.0	0.0	0.0	2	2	2	2	2						
7	90	24	1	0	1	0	0	0	n	75.36	7.5	0.0	10.0	0.0	5.0	1	2	2	2	2						
8	90	31	1	0	0	0	3	0	n	97.34	2.5	7.5	2.6	7.7	5.1	1	2	2	2	2						
9	90	42	0	0	0	0	0	2	n	131.9	0.0	10.0	0.0	7.6	3.8	2	2	2	2	2						
10	70	25	0	0	0	0	0	0	n	78.5	0.0	0.0	0.0	0.0	0.0	2	1	1	2	2						
11	60	30	0	0	0	0	0	0	n	94.2	0.0	0.0	0.0	0.0	0.0	2	1	1	2	2						
12	70	53	0	0	0	0	0	0	n	166.4	0.0	0.0	0.0	0.0	0.0	2	1	1	2	2						
13	50	22	10	5	1	0	0	5	n	69.08	42.5	25.0	61.5	36.2	48.9	1	1	1	1	1						
14	70	45	0	0	0	0	0	0	n	141.3	0.0	0.0	0.0	0.0	0.0	2	1	1	2	2						
										0	0.0	0.0	#####	#####	#####	#####	###	###	###	##	#DIV/0!					

BHA Tree Analysis (version: December 2013)

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

BHA Report #	455-006	Assessment Date(s)	23-Aug-17	Total # Butternut Trees in BHA Report	2
BHA ID #	455	BHA Name	Melissa Fuller		
Landowner / Client Name		Parkbridge Lifestyle Communities Inc.			
Property Location		161 Lakeshore Drive, Craighleith, Ontario			

input field data										automatic calculations from field data						Categories:				
Tree #	Live Crown %	Tree dbh (cm)	# bole cankers				# root flare (RF) cankers		<40 m from cankered tree? (Y or N)	Circ. (cm) = Pi x dbh	total bole canker width (sooty x 2.5 + open x 5)	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	LC% >= 50 & BC% = 0	LC% >70 & BRC% <20	LC% >70 & BC% <20	Preliminary tree call	FINAL TREE CALL a Cat 2, dbh>20cm <40m from a Cat 1
			sooty (S) (will be assigned 2.5 cm per canker)		open (O) (will be assigned 5 cm per canker)		RF S	RF O												
			S <2 m	S >2 m	O <2 m	O >2 m														
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
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									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
									0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!	
14	70	46	0	0	0	0	0	0	n	144.4	0.0	0.0	0.0	0.0	0.0	2	1	1	2	2
15	90	33	5	1	0	0	1	2	n	103.6	15.0	12.5	14.5	12.1	13.3	1	2	2	2	2
										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!
										0	0.0	0.0	#####	#####	#####	####	###	###	##	#DIV/0!

Butternut Data Collection Form 1 - 2010 Edition

Surveyor ID or BHA # **172**

(PLEASE USE BLOCK LETTERS)

Date (dd/mm/yyyy) **05 - 07 - 2016**

Shaded fields are mandatory for Butternut Health Assessments

Surveyor Contact

First **DREW** Last **WEST**

Email **DREW@AZIMUTHEMUNICIPAL.COM**

Telephone **(705) 721-8451** Telephone Other () - () - () x**207**

Property Owner

First Last

(check if same as surveyor)

or Company **PARKBRIDGE LIFESTYLE COMMUNITIES**

Email **RWAGNER@PARKBRIDGE.COM INC.**

Telephone **(705) 429-8630** Telephone Other () - () - () x

Property Owner's Mailing address

Address **85 THEME PARK DRIVE** Postal Code **L9Z1X7** Prov. **ON**

City **WASAGA BEACH**

Tree Location (if different from mailing address)

Address/(911#) **161 LAKESHORE DRIVE**

Township **TOWN OF BLUE MOUNTAINS** Lot Con

City **CRAIGLEITH**

Directions

- Yes No Can Share Location Information with other Butternut Recovery Organizations?
- Yes No Site visits OK? (prior arrangements will always be made for a site visit)

Butternut Trees Tally by Diameter Class

(Do a dot tally in blank space; write total# in box for each)

Tree Condition	< 3 cm	3-15 cm	16-30cm	>30 cm
Vigorous: > 50% Live Crown Minor or no cankers			•• 3	••• 9
Poor Vigor: <50% Live Crown or >50% Live Crown + heavily cankered stem			• 1	• 1
Dead				

Overall Property Description (area(s) containing Butternut)

- Rolling Upland Bottomland
 - Valley Slope Variable
 - Tableland Unknown
- #### Vegetation Community/ies
- Open Fencerow
 - Shrubland Roadside
 - Deciduous Forest Quarry
 - Conifer Forest Urban Yard
 - Mixed Forest Urban Park

Other

Soil Drainage

- Well Drained
- Moderately Drained
- Poorly Drained
- Unknown

Soil Texture

- Clay Sand
- Clay Loam Variable
- Loam Unknown
- Loamy Sand

Soil Depth

- > 1metre
- 30 - 99cm
- < 30cm
- Variable
- Unknown

Historically, do some trees produce seeds? Y N Unknown

Estimated area containing butternut for properties > 1 acre (0.4 hectares): **5** Acres Hectares

Please enter matching numerical page link code on forms 1 and 2

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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 on Form 2 must be filled out for all trees when doing a Butternut Health Assessment.

Site Code(A,B,...Z, AA...) Surveyor ID or BHA # 172

Date (dd/mm/yyyy) 05 - 07 - 2016

Surveyor Last Name WEST

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone 17 Easting 553781 Northing 4930041

2 Crown Class 75 Live Crown % 15 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration 53 DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type D
 #Open 5 #Sooty 10
 # Callused Wounds 2 0 1

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
S M A P L E
B A S S W D

Tree has cankered root flares, lower canopy mostly dead.

Tree # Zone 17 Easting 553790 Northing 4930069

2 Crown Class 90 Live Crown % 12 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration 47 DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type D
 #Open 0 #Sooty 1
 # Callused Wounds 1 1 2

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
S M A P L E
W A S H

Tree # Zone 17 Easting 553863 Northing 4929950

2 Crown Class 60 Live Crown % 15 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration 42 DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type S
 #Open 10 #Sooty 10
 # Callused Wounds 2 5 5

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
W A S H
B A S S W D
S M A P L E

Heavily cankered tree, poor/declining health

Tree # Zone 17 Easting 553934 Northing 4929880

2 Crown Class 90 Live Crown % 12 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration 90 DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type D
 #Open 0 #Sooty 0
 # Callused Wounds 0 0 0

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
S M A P L E
B A S S W D

very mature tree, difficult to confirm if a Butternut/American Walnut

Tree # Zone 17 Easting 554029 Northing 4929856

2 Crown Class 90 Live Crown % 10 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration 45 DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type S
 #Open 0 #Sooty 0
 # Callused Wounds 0 0 0

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
S M A P L E
B A S S W D

No canker found, wild grape vines all over tree

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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 on Form 2 must be filled out for all trees when doing a Butternut Health Assessment.

Site Code(A,B,...Z, AA...) Surveyor ID or BHA # 172

Date (dd/mm/yyyy) 05 - 07 - 2016

Surveyor Last Name WEST

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone 17 Easting 554037 Northing 4929858

2 Crown Class 90 Live Crown % 10 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Male Flowers Female Flowers
 Branch Dieback Defoliation 47 DBH(cm) Planted Seed Set Unknown None

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 Root #Open #Sooty
 =<2m 0 0
 >2m 0 0

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
BUTTERN
WASH

No canker found, wild grape vines all over tree

Tree # Zone 17 Easting 554049 Northing 4929858

2 Crown Class 90 Live Crown % 12 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Male Flowers Female Flowers
 Branch Dieback Defoliation 24 DBH(cm) Planted Seed Set Unknown None

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 Root #Open #Sooty
 =<2m 0 0
 >2m 1 1

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
S MAPLE
BASSWD

minor canker on trunk

Tree # Zone 17 Easting 554071 Northing 4929845

2 Crown Class 90 Live Crown % 10 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Male Flowers Female Flowers
 Branch Dieback Defoliation 31 DBH(cm) Planted Seed Set Unknown None

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 Root #Open #Sooty
 =<2m 0 3
 >2m 0 0

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
WASH
S MAPLE

minor canker on root flares/trunk

Tree # Zone 17 Easting 554089 Northing 4929862

2 Crown Class 90 Live Crown % 8 Main Stem Length(m) Below crown Seed
 Twig Dieback 2 #Stems Butternut Origin Male Flowers Female Flowers
 Branch Dieback Defoliation 42 DBH(cm) Planted Seed Set Unknown None

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 Root #Open #Sooty
 =<2m 2 0
 >2m 0 0

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
WASH
S MAPLE

some canker on root flares.

Tree # Zone 17 Easting 554105 Northing 4929850

2 Crown Class 70 Live Crown % 8 Main Stem Length(m) Below crown Seed
 Twig Dieback 1 #Stems Butternut Origin Male Flowers Female Flowers
 Branch Dieback Defoliation 25 DBH(cm) Planted Seed Set Unknown None

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 Root #Open #Sooty
 =<2m 0 0
 >2m 0 0

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
BUTTERN
WASH

No canker found

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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 on Form 2 must be filled out for all trees when doing a Butternut Health Assessment.

Site Code(A,B,...Z, AA...) Surveyor ID or BHA # 1172

Date (dd/mm/yyyy) 05-07-2016

Surveyor Last Name WEST

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree #	Zone	Easting	Northing	Assess below live crown		Metres from badly cankered tree	Competing Species	
<u>11</u>	<u>17</u>	<u>554109</u>	<u>4929839</u>	<input type="checkbox"/> #Epic-Live	#Open #Sooty	<input type="checkbox"/> < 40 <input checked="" type="checkbox"/> > 40 <input type="checkbox"/> None Found	<u>BUTTERNUT</u>	<u>W BIRCH</u>
<u>2</u>	Crown Class <u>60</u>	Live Crown % <u>10</u>	Main Stem Length(m) <u> </u>	<input type="checkbox"/> #Epic-Dead	Root = <2m >2m		<u>W BIRCH</u>	<u>W ASH</u>
<input checked="" type="checkbox"/> Twig Dieback	<u>1</u> #Stems	DBH(cm) <u>30</u>	Butternut Origin <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Planted <input type="checkbox"/> Unknown	<input type="checkbox"/> Bark Type	# Callused Wounds			
<input checked="" type="checkbox"/> Branch Dieback			Signs <input type="checkbox"/> Male Flowers <input type="checkbox"/> Female Flowers <input type="checkbox"/> Seed Set <input checked="" type="checkbox"/> None					
<input checked="" type="checkbox"/> Defoliation								
<input type="checkbox"/> Discolouration								
<u>No canker found</u>								

Tree #	Zone	Easting	Northing	Assess below live crown		Metres from badly cankered tree	Competing Species	
<u>12</u>	<u>17</u>	<u>554169</u>	<u>4929784</u>	<input type="checkbox"/> #Epic-Live	#Open #Sooty	<input type="checkbox"/> < 40 <input checked="" type="checkbox"/> > 40 <input type="checkbox"/> None Found	<u>S MAPLE</u>	<u>W ASH</u>
<u>2</u>	Crown Class <u>70</u>	Live Crown % <u>15</u>	Main Stem Length(m) <u> </u>	<input type="checkbox"/> #Epic-Dead	Root = <2m >2m		<u>S MAPLE</u>	<u>W ASH</u>
<input checked="" type="checkbox"/> Twig Dieback	<u>1</u> #Stems	DBH(cm) <u>53</u>	Butternut Origin <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Planted <input type="checkbox"/> Unknown	<input type="checkbox"/> Bark Type	# Callused Wounds			
<input checked="" type="checkbox"/> Branch Dieback			Signs <input type="checkbox"/> Male Flowers <input type="checkbox"/> Female Flowers <input type="checkbox"/> Seed Set <input checked="" type="checkbox"/> None					
<input checked="" type="checkbox"/> Defoliation								
<input type="checkbox"/> Discolouration								
<u>No canker found</u>								

Tree #	Zone	Easting	Northing	Assess below live crown		Metres from badly cankered tree	Competing Species	
<u>13</u>	<u>17</u>	<u>554196</u>	<u>4929792</u>	<input type="checkbox"/> #Epic-Live	#Open #Sooty	<input type="checkbox"/> < 40 <input checked="" type="checkbox"/> > 40 <input type="checkbox"/> None Found	<u>A ELM</u>	<u>W ASH</u>
<u>2</u>	Crown Class <u>40</u>	Live Crown % <u>10</u>	Main Stem Length(m) <u> </u>	<input type="checkbox"/> #Epic-Dead	Root = <2m >2m		<u>A ELM</u>	<u>W ASH</u>
<input checked="" type="checkbox"/> Twig Dieback	<u>1</u> #Stems	DBH(cm) <u>22</u>	Butternut Origin <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Planted <input type="checkbox"/> Unknown	<input type="checkbox"/> Bark Type	# Callused Wounds			
<input checked="" type="checkbox"/> Branch Dieback			Signs <input type="checkbox"/> Male Flowers <input type="checkbox"/> Female Flowers <input type="checkbox"/> Seed Set <input checked="" type="checkbox"/> None					
<input checked="" type="checkbox"/> Defoliation								
<input type="checkbox"/> Discolouration								
<u>heavily cankered tree</u>								

Tree #	Zone	Easting	Northing	Assess below live crown		Metres from badly cankered tree	Competing Species	
<u>17</u>	<u>17</u>	<u>554097</u>	<u>4929788</u>	<input type="checkbox"/> #Epic-Live	#Open #Sooty	<input type="checkbox"/> < 40 <input checked="" type="checkbox"/> > 40 <input type="checkbox"/> None Found	<u>BASSWD</u>	<u>W ASH</u>
<u>2</u>	Crown Class <u>70</u>	Live Crown % <u>6</u>	Main Stem Length(m) <u> </u>	<input type="checkbox"/> #Epic-Dead	Root = <2m >2m		<u>BASSWD</u>	<u>W ASH</u>
<input checked="" type="checkbox"/> Twig Dieback	<u>1</u> #Stems	DBH(cm) <u>45</u>	Butternut Origin <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Planted <input type="checkbox"/> Unknown	<input type="checkbox"/> Bark Type	# Callused Wounds			
<input checked="" type="checkbox"/> Branch Dieback			Signs <input type="checkbox"/> Male Flowers <input type="checkbox"/> Female Flowers <input type="checkbox"/> Seed Set <input checked="" type="checkbox"/> None					
<input checked="" type="checkbox"/> Defoliation								
<input type="checkbox"/> Discolouration								
<u>No canker found, large open wound on trunk - not from canker.</u>								

Tree #	Zone	Easting	Northing	Assess below live crown		Metres from badly cankered tree	Competing Species	
<u> </u>	<u>1</u>	<u> </u>	<u> </u>	<input type="checkbox"/> #Epic-Live	#Open #Sooty	<input type="checkbox"/> < 40 <input type="checkbox"/> > 40 <input type="checkbox"/> None Found		
<u> </u>	Crown Class <u> </u>	Live Crown % <u> </u>	Main Stem Length(m) <u> </u>	<input type="checkbox"/> #Epic-Dead	Root = <2m >2m			
<input type="checkbox"/> Twig Dieback	<u> </u> #Stems	DBH(cm) <u> </u>	Butternut Origin <input type="checkbox"/> Natural <input type="checkbox"/> Planted <input type="checkbox"/> Unknown	<input type="checkbox"/> Bark Type	# Callused Wounds			
<input type="checkbox"/> Branch Dieback			Signs <input type="checkbox"/> Male Flowers <input type="checkbox"/> Female Flowers <input type="checkbox"/> Seed Set <input type="checkbox"/> None					
<input type="checkbox"/> Defoliation								
<input type="checkbox"/> Discolouration								

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Butternut Data Collection Form 1 - 2010 Edition

Surveyor ID or BHA # **455**

(PLEASE USE BLOCK LETTERS)

Date (dd/mm/yyyy) **23-08-2017**

Shaded fields are mandatory for Butternut Health Assessments

Surveyor Contact
 First **MELISSA** Last **FULLER**
 Email **MFULLER@AZIMUTHENVIRONMENTALCOM**
 Telephone **(705) 721-8451** Telephone Other () - () - () x ()

Property Owner
 (check if same as surveyor)
 First Last
 or Company **PARK BRIDGE LIFESTYLE COMMUNITIES**
 Email
 Telephone **(705) 429-8630** Telephone Other () - () - () x ()

Property Owner's Mailing address
 Address **85 THEME PARK DRIVE** Postal Code **L9Z 1X7** Prov. **ON**
 City **WASAGA BEACH**

Tree Location (if different from mailing address)
 Address/(911#) **161 LAKESHORE DRIVE**
 Township **TOWN OF BLUE MOUNTAINS** Lot Con
 City **CRAIGLEITH**

Directions

Yes No Can Share Location Information with other Butternut Recovery Organizations?
 Yes No Site visits OK? (prior arrangements will always be made for a site visit)

Butternut Trees Tally by Diameter Class
 (Do a dot tally in blank space; write total# in box for each)

Tree Condition	< 3 cm	3-15 cm	16-30cm	>30 cm
Vigorous: > 50% Live Crown Minor or no cankers				2
Poor Vigor: <50% Live Crown, or >50% Live Crown + heavily cankered stem				
Dead				

Overall Property Description (area(s) containing Butternut)

Rolling Upland Bottomland
 Valley Slope Variable
 Tableland Unknown

Vegetation Community/ies

Open Fencerow
 Shrubland Roadside
 Deciduous Forest Quarry
 Conifer Forest Urban Yard
 Mixed Forest Urban Park

Other

Soil Drainage

Well Drained
 Moderately Drained
 Poorly Drained
 Unknown

Soil Texture

Clay Sand
 Clay Loam Variable
 Loam Unknown
 Loamy Sand

Soil Depth

> 1metre
 30 - 99cm
 < 30cm
 Variable
 Unknown

Historically, do some trees produce seeds? Y N Unknown

Estimated area containing butternut for properties > 1 acre (0.4 hectares): **005** Acres Hectares

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Butternut Data Collection FORM 2 (2010 Edition)

(PLEASE USE BLOCK LETTERS)

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

Shaded fields are mandatory for Butternut Health Assessments

Site Code(A,B,...Z, AA...) **289** Surveyor ID or BHA # **455**

Date (dd/mm/yyyy) **23-08-2017**

Surveyor Last Name **FULLER**

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # **15** Zone **17** Easting **553712** Northing **4929937**

Crown Class **1** Live Crown % **90** Main Stem Length(m) Below crown **3** Seed Signs
 Twig Dieback **1** #Stems **1** Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration **33** DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead **R** Bark Type # Callused Wounds **3**
 #Open #Sooty
 Root =<2m **2 1**
 >2m **0 1**

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
T H U J A O C

New tree

Tree # **14** Zone **17** Easting **554097** Northing **4929788**

Crown Class **1** Live Crown % **70** Main Stem Length(m) Below crown **9** Seed Signs
 Twig Dieback **1** #Stems **1** Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration **46** DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead **R** Bark Type # Callused Wounds **2**
 #Open #Sooty
 Root =<2m **0 0**
 >2m **0 0**

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species
Q U E R R U B
A C E S A C C
F R A X A N E

see notes on all reassessed tree, one giant collar wound, hybrid?

Tree # **1** Zone **1** Easting **1** Northing **1**

Crown Class **1** Live Crown % **1** Main Stem Length(m) Below crown **1** Seed Signs
 Twig Dieback #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration **1** DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 #Open #Sooty
 Root =<2m
 >2m

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species

Tree # **1** Zone **1** Easting **1** Northing **1**

Crown Class **1** Live Crown % **1** Main Stem Length(m) Below crown **1** Seed Signs
 Twig Dieback #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration **1** DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 #Open #Sooty
 Root =<2m
 >2m

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species

Tree # **1** Zone **1** Easting **1** Northing **1**

Crown Class **1** Live Crown % **1** Main Stem Length(m) Below crown **1** Seed Signs
 Twig Dieback #Stems Butternut Origin Natural Planted Unknown None
 Branch Dieback Defoliation Discolouration **1** DBH(cm)

Assess below live crown
 #Epic-Live #Epic-Dead Bark Type # Callused Wounds
 #Open #Sooty
 Root =<2m
 >2m

Metres from badly cankered tree < 40 > 40 None Found
 Competing Species

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