





# Submitted to:

Canadian Rental Development Services Inc. 206-555 Legget Drive (Tower A) Ottawa, Ontario K2K 2X3

Tree Conservation Report Zoning By-Law Amendment 910 March Road Ottawa, Ontario

May 4, 2023

Project: 100011.014\_V02

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#### 1.0 INTRODUCTION

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by Canadian Rental Development Services Inc. to carry out a Tree Conservation Report (TCR) for the property located at 910 March Road, in Ottawa, Ontario, hereafter referred to as the "subject property". The site location is provided in Figure A.1 in Appendix A.

# 1.1 Purpose

The proponent is seeking a zoning by-law amendment for the property located at 910 March Road, in Ottawa, Ontario for future development. As a component of the zoning amendment application, the City of Ottawa is requesting a TCR for the collective property. In accordance with the City of Ottawa's Tree Protection (By-law No. 2020-340) a TCR is required to identify trees to be retained and protected under future development scenarios and, where feasible, identify opportunities to offset the loss of trees that cannot be retained or contribute to the City's forest cover targets.

The property has an approximate size of 2.71-hectares (ha). The proposed site development includes a mixed-use apartment building with road access via March Road. The existing site layout and proposed development is provided in Figure A.2 and Figure A.3, respectively, in Appendix A.

#### 1.2 Definitions

Terms and abbreviations used throughout the remainder of this report are summarized below.

*Diameter at Breast Height (DBH)*, is defined as the diameter of the tree trunk measured at a height of 1.2 metres above ground surface for trees of 10 centimeters in diameter and greater.

Critical Root Zone (CRZ), is defined as the ground area within a circumference around the tree trunk calculated as 10 centimeters from the trunk of the tree for every one centimeter of tree truck diameter at breast height.

Distinctive Tree, within the City of Ottawa, is defined as any tree with a DBH of 30 cm or greater within the inner urban area and with a DBH of 50 cm or greater within the suburban area and rural area. For the purposes of this report, a distinctive tree is considered to be a tree with a DBH of 50 cm or greater, as the subject property is located within the suburban boundary.



#### 2.0 METHODOLOGY

#### 2.1 Desktop Review

To complete the TCR, digital colour air photos of the site available from GeoOttawa were reviewed from 1976 to 2021 to identify natural features, including historical trees, present on-site and in the vicinity of the site.

Based on a review of historical air photos, the general surrounding area has seen an increase in residential and commercial development between 1999 – 2011, whereas the site has not undergone any significant change since at least 2007. Development on-site has been present since 1976, with the site at present day configuration since 2021. No alterations to land use were noted during review.

# 2.2 Field Investigations

In addition to the completion of a desktop review of historical air photos, a site visit was conducted on January 18, 2023, from 08:00 to 12:00, to document and identify all trees on-site with a DBH greater than 10 cm. The site investigation utilized transects bisecting the property to document the health of each tree greater than 10 cm in DBH, the trees location and the tree species.

To determine the presence or absence of species at risk on-site and adjacent to site, butternut were searched for during the transect surveys.

Site conditions during the site investigation were as follows: -2°C, 100% cloud cover, Beaufort 3 and light flurries.

Site photographs taken during the field investigations are provided in Appendix B.



#### 3.0 RESULTS

# 3.1 Existing Conditions

Development on-site currently consists of an abandoned log building, storage containers and temporary site buildings. Other existing features on the property include road access to 910 March Road, existing driveways for site access, and gravel areas for parking. Existing development, including the existing structures and associated parking areas, occupies a combined approximate area of 1.05 ha. Impermeable surfaces account for 39% of the total property area.

Outside of the existing development, the subject site consists of the riparian areas of the Shirley's Brook tributaries that flow along the north and east property boundaries. A stormwater outfall and associated watercourse is present off-site, immediately adjacent to the south. Numerous trees are present on the property, primarily along the property lines. A summary of all trees on-site is provided in Section 3.2 below.

The land use in the vicinity of the site is characterized by agriculture, commercial and residential land uses. Natural environmental features in the vicinity of the project, as summarized in Table 3.1 below, include surface water features. Surface water features on-site include the stormwater outfall, associated watercourse and Shirley's Brook tributaries.

Based on NHIC observation data, the following Species at Risk (SAR) have been observed within 1 km of the subject property: barn swallow (avian SAR), eastern small-foot myotis, little brown myotis, tri-colored bat (mammalian SARs), Blanding's turtle (reptilian SAR) and butternut (tree SAR). No SAR species were identified on-site or in the area immediately adjacent to the property during the site investigation. However, based conservatively on the NHIC observation data, the KNUEA EMP (DST, 2015; Novatech, 2016), and observation data from the McKinley EIS (2020), the subject site contains regulated Category 2 and Category 3 habitat for Blanding's turtle. Butternut trees were specifically targeted for presence/absence during the survey, however no butternut were observed on-site or within the study area.

There are no other natural environmental features in the vicinity of the project, as summarized in Table 3.1 below.

Table 3.1 Summary of Natural Features Present On-site or Adjacent to Site

Natural Feature	Present On-site or Adjacent
Surface water or wetlands present	Present
Steep slopes, valleys or escarpments	None
Urban Natural Features or Natural Environment Areas	None
Significant Woodlands	None
Greenspace Linkages	None



High Quality Specimen Trees	None
Rare plant communities or unique environmental features	None
Presence of Species at Risk	Present – suitable Blanding's turtle habitat within watercourse
Significant Wildlife Habitat	Present – On-site watercourse may support fish habitat

# 3.2 Tree Inventory Summary

A tree inventory was conducted on January 18, 2023. Trees on-site were identified, enumerated and assessed for visual signs of distress and disease. Table C.1 in Appendix C provides a summary of all tree specimens on-site whose DBH was greater than 10 cm. CRZ values for trees with DBH greater than 10 cm are also present in Table C.1 in Appendix C. CRZ were not calculated for dead trees. The square root of the sum of squares method was used to calculate the DBH of trees with multiple stems. All trees with a DBH greater than 10 cm and their CRZ are illustrated on Figure A.4, in Appendix A.

Per the City of Ottawa's Tree Protection (By-law No. 2020-340), 16 trees on the subject site, were identified as a distinctive tree (DBH > 50 cm). Table 3.2 below details the results. For the purpose of this report, dead standing trees were not included in the distinctive tree list, even if the DBH was greater than 50 cm.

Table 3.2 Summary of Distinctive Trees Present On-Site or Adjacent

Tree #	Species	DBH (cm)	Condition
2	Manitoba Maple	50	Healthy
7	Willow sp.	58	Healthy
12	Manitoba Maple	64	Healthy
20	Willow sp.	151	Healthy
28	Willow sp.	55	Healthy
81	Willow sp.	54	Healthy
98	Crabapple	59	Good
113	Black Cherry	54	Healthy
114	Black Cherry	57	Healthy
132	Black Cherry	57	Healthy
133	Manitoba maple	74	Healthy

None of the trees identified on-site are listed under the provincial Endangered Species Act.

In general, the tree community assemblage can be described as containing a few mature and semi-mature trees. Dominant tree species on-site were represented by Manitoba maple (*Acer negundo*) in areas of disturbance and willow species (*Salix* sp.) along the watercourses. Most of



the observed ash species identified on-site were of poor health or dead, likely due to the presence of emerald ash borer. Many of the ash species were observed to have epicormic shoots (young shoots growing from near the base of the tree) indicative of stress and poor health conditions. The majority of other tree species were observed to be in good or healthy conditions.



# 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on a review of the information summarized in Section 3.2, Table C.1 in Appendix C and the proposed development concept illustrated on Figure A.3, the following conclusions are provided:

- Out of 143 trees identified on-site with a DBH greater or equal to 10 cm, 132 were identified as retainable and 11 trees as non-retainable;
- 16 distinctive trees, meeting the City of Ottawa's Tree Protection (By-law No. 2020-340), requirements of DBH > 50 cm, were identified on-site, 1 of which was identified as not retainable under the current development plan;
- Trees on-site are of a typical upland or early successional species;
- 107 trees are in good/healthy condition and 36 trees are in poor or dead condition;
- 27 of the trees present on-site were observed to provide potential wildlife habitat (snag, active nest), 1 of which is identified as not retainable under the current development plan;
- No Butternut trees were identified on-site or in the area immediately adjacent to site;
- None of the 143 trees present on-site are protected under the Endangered Species Act, Ontario 2007;
- None of the trees on-site were identified to represent High Quality Specimen Tree; and
- All trees identified to be retained or with a Critical Root Zone Conflict will have their existing elevations around the critical root zone maintained:

#### 4.1 Tree Conservation Recommendations

As discussed above, none of the trees on-site represent exceptional tree specimens, rare communities, nor do they provide any conservation value or great ecological benefit. Based on the proposed development plan it is assumed that 143 of the identified trees on the subject property are retainable. Future development plans should give consideration to maintaining the distinctive trees identified in this report, in addition to other healthier more mature trees.

Future development that requires vegetation clearing should be offset through landscape planting. Consideration should be given to landscape planting with native tree species indicative of the Great Lakes – St. Lawrence Forest Region, such as white cedar, white spruce, red maple and red oak.

# 4.2 Recommended Mitigation Measures

The following mitigation measures and best practice recommendations are provided by GEMTEC in order to minimize and eliminate negative impacts to trees identified in Appendix C as retainable during potential future construction. Construction contractors shall apply the following measures outlined below to prevent damage to trees identified to be retained in the redevelopment plan for the site:



- All trees identified to be retained should be clearly marked and the CRZ delineated with fencing to prevent encroachment and damage during construction. General prohibitions of activities within the fencing include:
  - No placement of construction material (including fill and equipment);
  - No construction activities (i.e. grading, machine operation, etc.) to avoid soil compaction and direct injury to the tree or its root system; and
  - No refueling or disposal of liquids.
  - Do not attach any signs, notices or posters to any tree identified to be retained;
- Tree protection should follow the tree protection specification provided by the City of Ottawa (2019). The Specification is provided in Appendix D;
- As per the City of Ottawa's Tree Protection (By-law No. 2020-340), a tree compensation plan may be brought forth by the City of Ottawa, by means of offsetting overall tree and vegetation removal;
- If existing pavement surface around trees to be retained is going to be removed than temporary fencing should be installed to delineate the CRZ of each tree;
- If trees to be removed overlap with the CRZ of trees to be retained, cut roots at the edge
  of the retained CRZ and grind down stumps after tree removal, do not pull out stumps. If
  roots must be cut, roots 20 cm or larger should be cut at right angles with clean, sharp,
  horticultural tools, without tearing, crushing, or pulling;
- All tree service activities (i.e. removal, branch / root pruning, etc.) will be completed by or under the direction of an ISA certified arborist;
- Do not damage the root system, trunk, or branches or any tree identified to be retained;
- Ensure that exhaust fumes from all equipment are directed away from tree canopy; and
- For the protection of migratory birds and SAR bat species, tree removal shall occur outside of March 15 November 30 of any given year, to avoid the key breeding bird period as identified by Environment Canada and the bat active season as identified by the Ministry of Environment, Conservation and Parks (MECP). Adhering to the timing window will also avoid contravention of the Migratory Bird Convention Act and the Endangered Species Act. If vegetation clearing activities must take place outside of the aforementioned timing window than a nest and roost survey shall be conducted by a qualified professional.



#### 5.0 CLOSURE

This letter and the work referred to within it have been undertaken by GEMTEC Consulting Engineers and Scientists Ltd. (GEMTEC), and was prepared for Canadian Rental Development Services Inc. and is intended for the exclusive use of Canadian Rental Development Services Inc. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC and Canadian Rental Development Services Inc. Nothing in this report is intended to provide a legal opinion.

The investigation undertaken by GEMTEC with respect to this report and any conclusions or recommendations made in this report reflect the best judgements of GEMTEC based on the site conditions observed during the investigations undertaken at the date(s) identified in the report and on the information available at the time the report was prepared.

This letter has been prepared for the application notes and it is based in part, on visual observations made at the site, all as described in the report. Unless otherwise states, the findings contained in this report cannot be extrapolates or extended to previous or future site conditions or for portions of the site that were unavailable for direct investigation.

Should new information become available during future work, or other studies, GEMTEC should be requested to review the information and, if necessary, re-assess the conclusions present herein.

We trust this report provides sufficient information for your present purposes. If you have any questions concerning this report, please do not hesitate to contact our office.

Sincerely,

Emily Young, B.Sc.

Junior Biologist

Drew Paulusse, B.Sc.

Senior Biologist



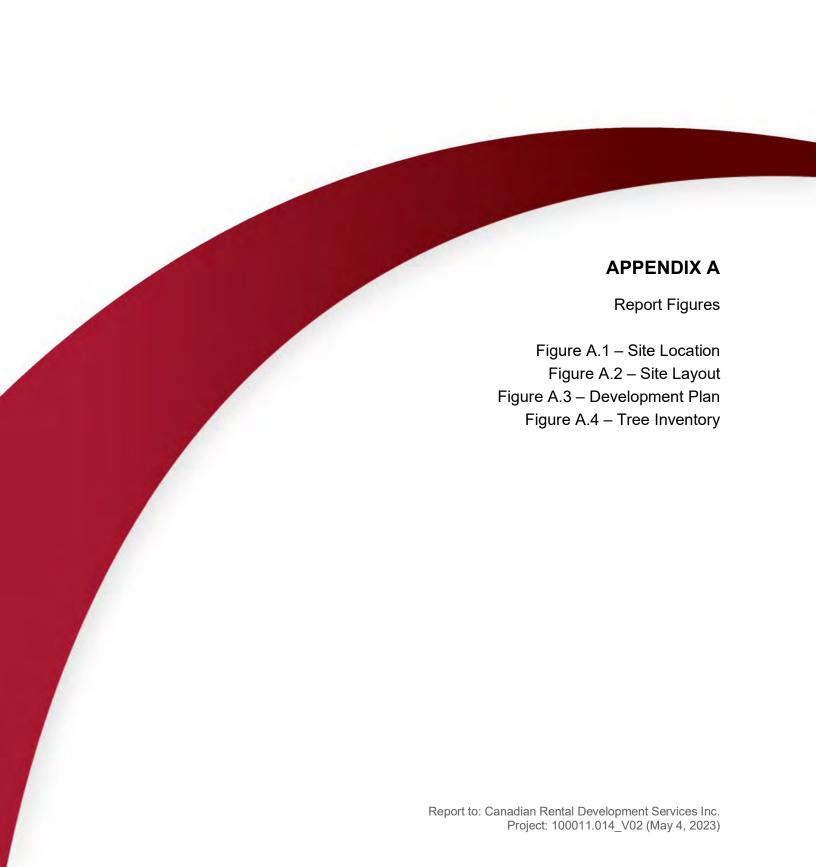
# 6.0 REFERENCES

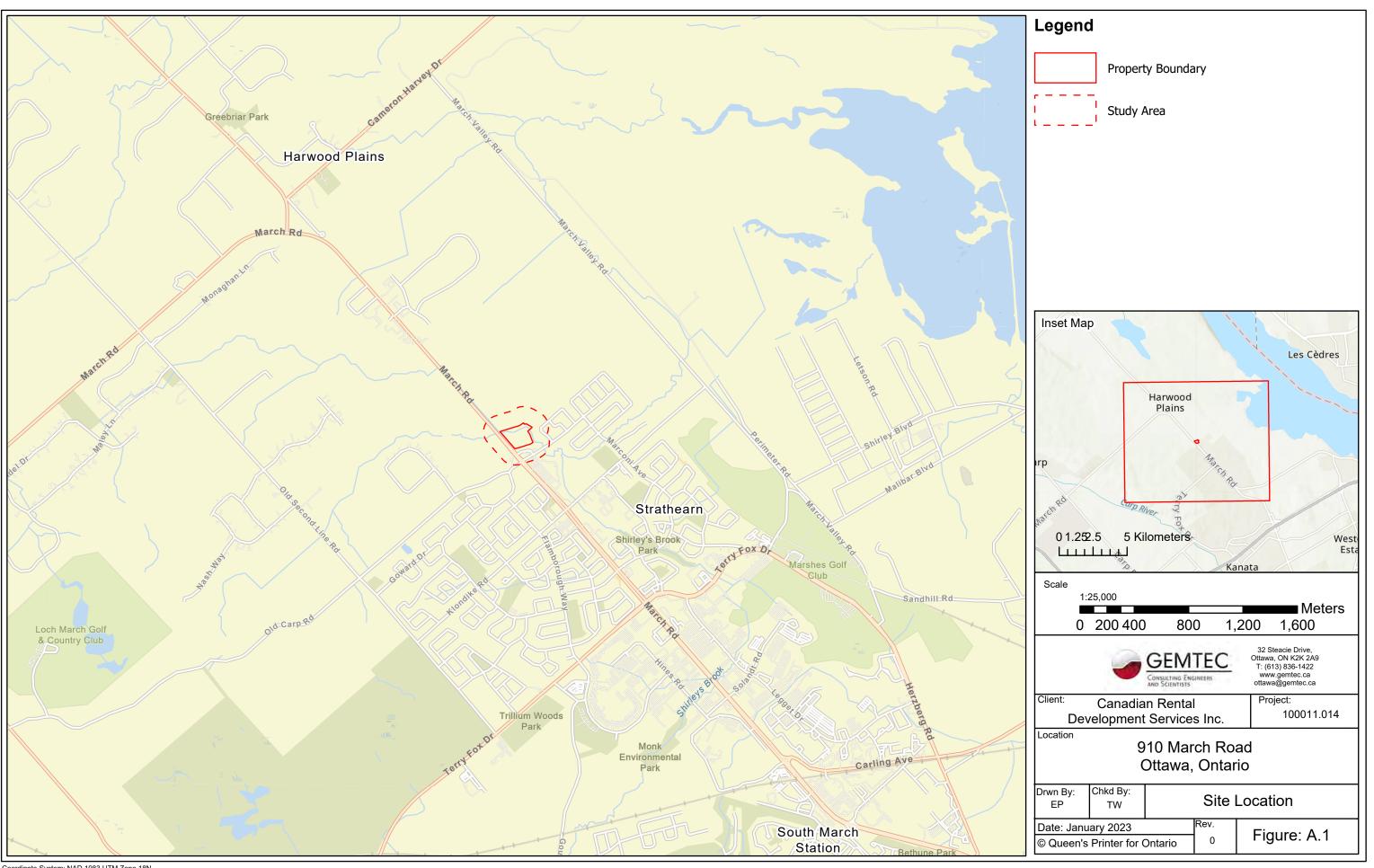
Ontario Ministry of Natural Resources and Forestry (OMNRF). 2019. Natural Heritage Information Centre. Make a Map: Natural Heritage Areas.

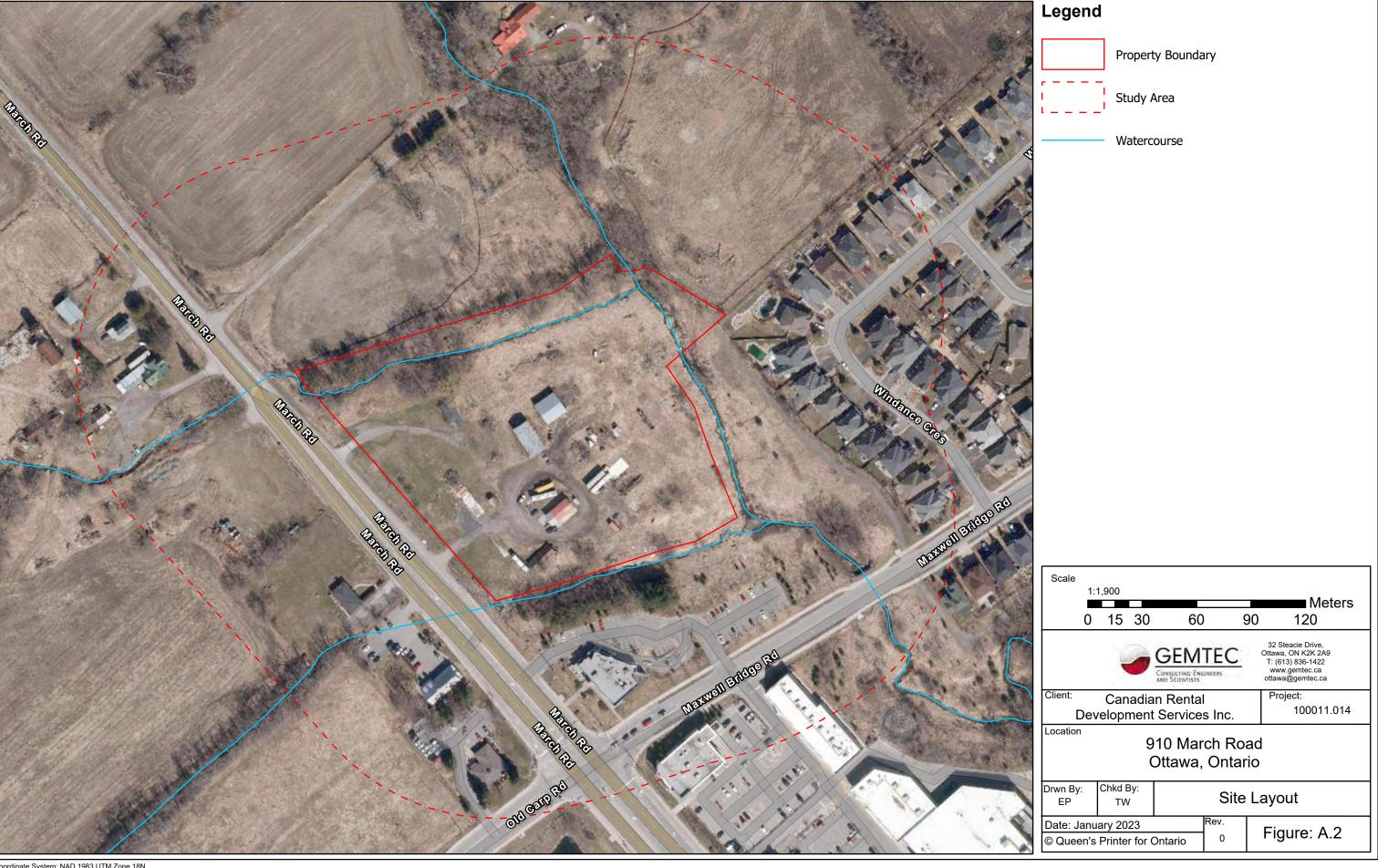
Ottawa, City of (Ottawa). 2022, City of Ottawa Official Plan.

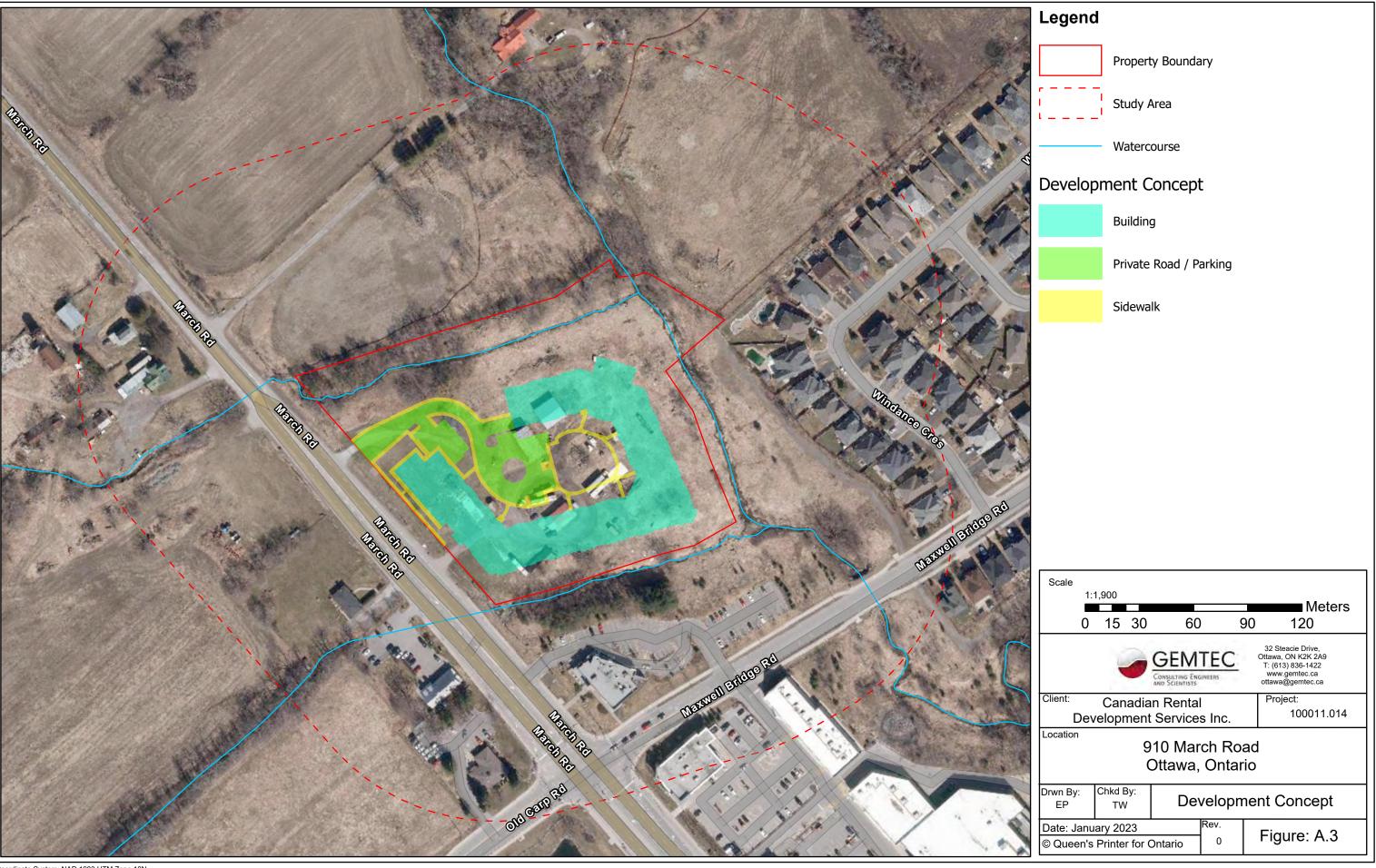
Ottawa, City of (Ottawa), By-law No. 2020-340, Tree Protection (Updated: January, 2021).

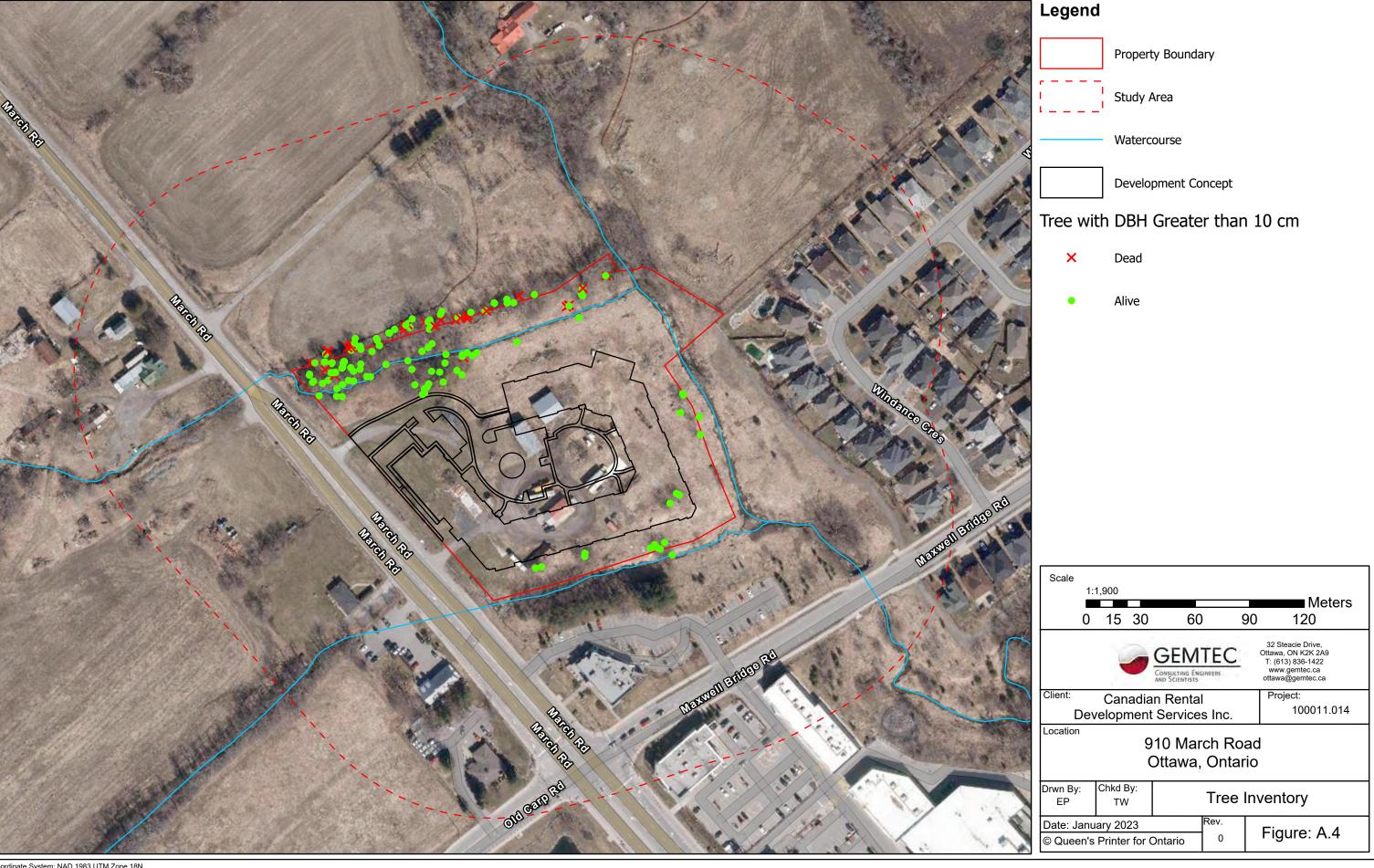


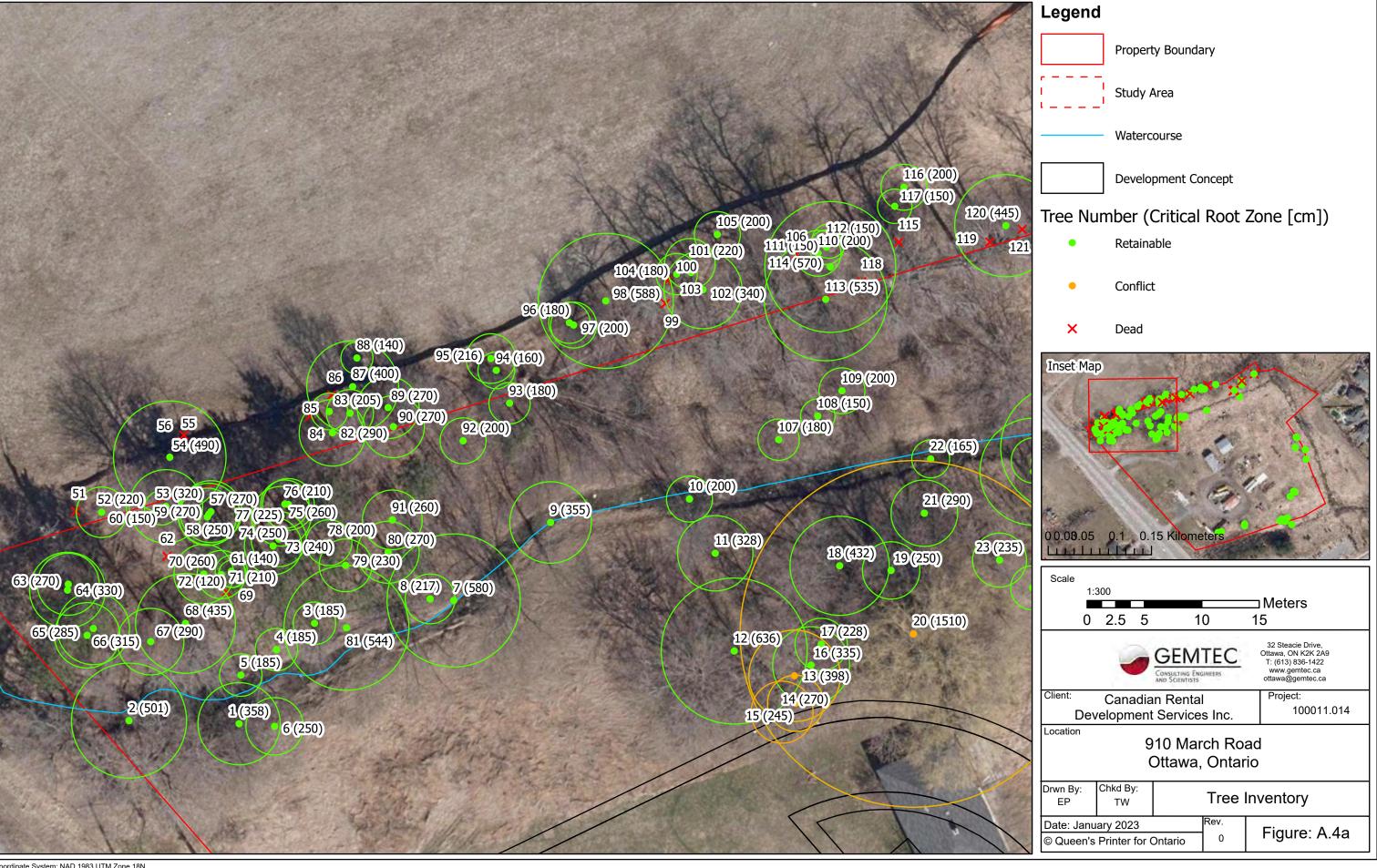


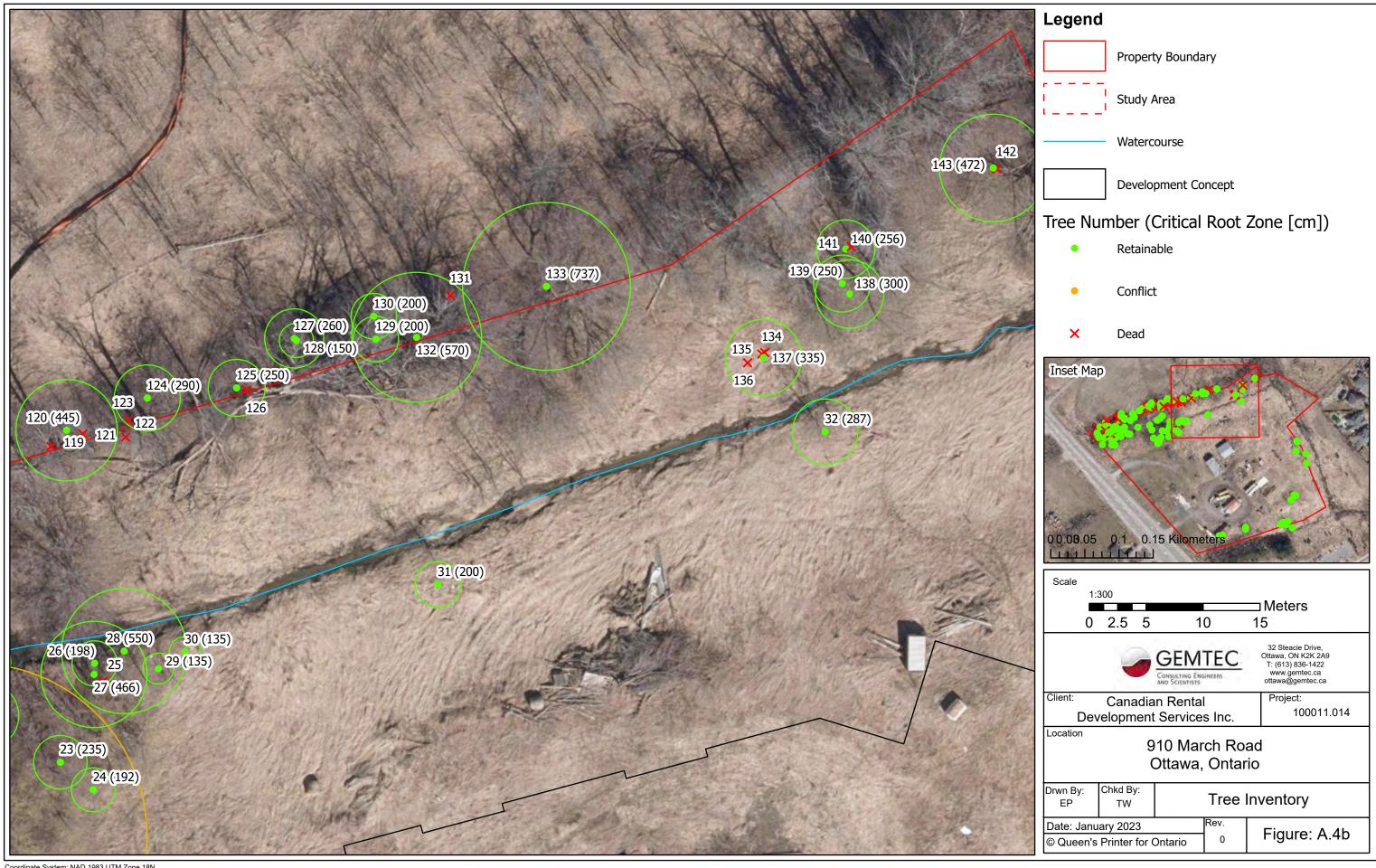


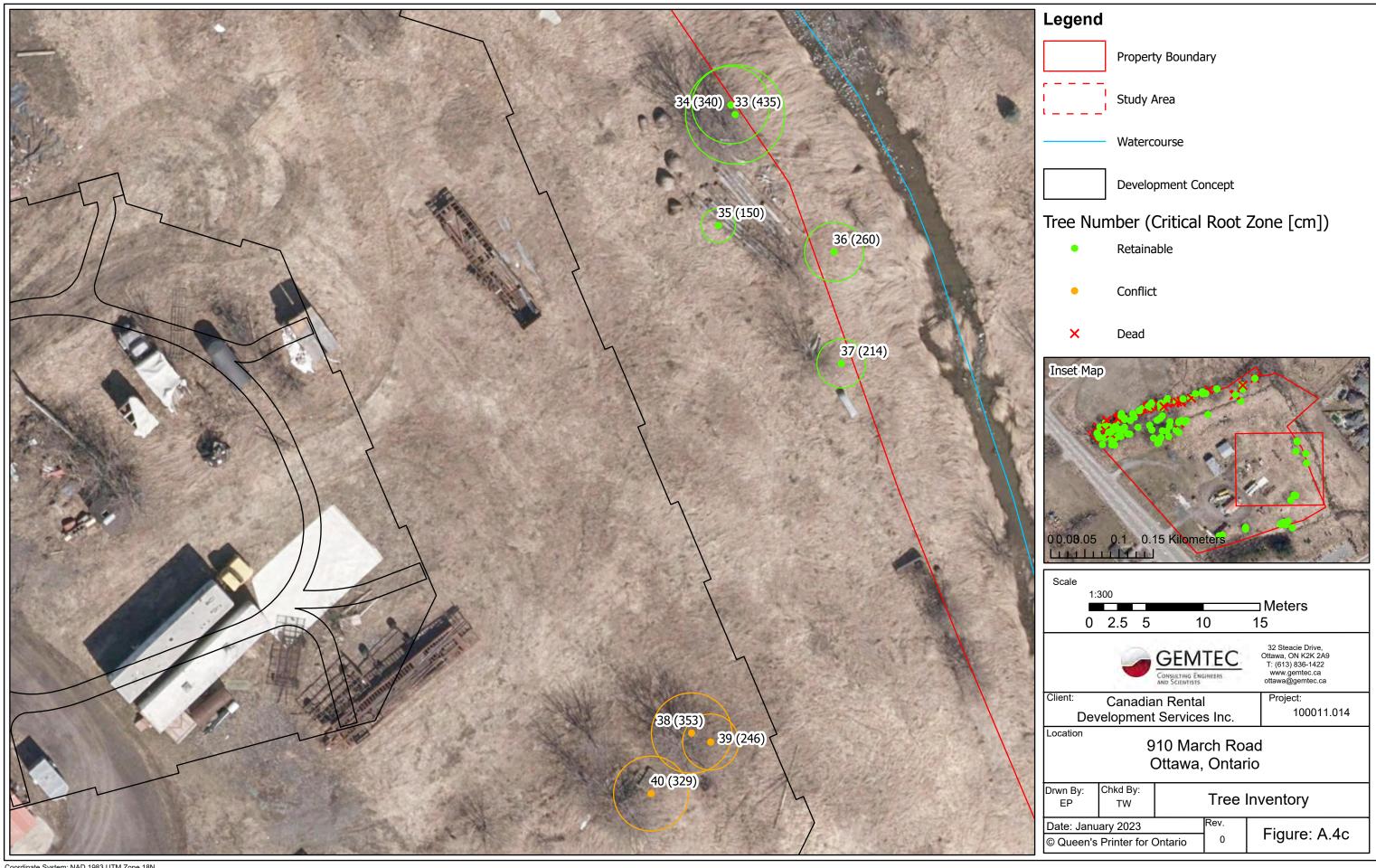




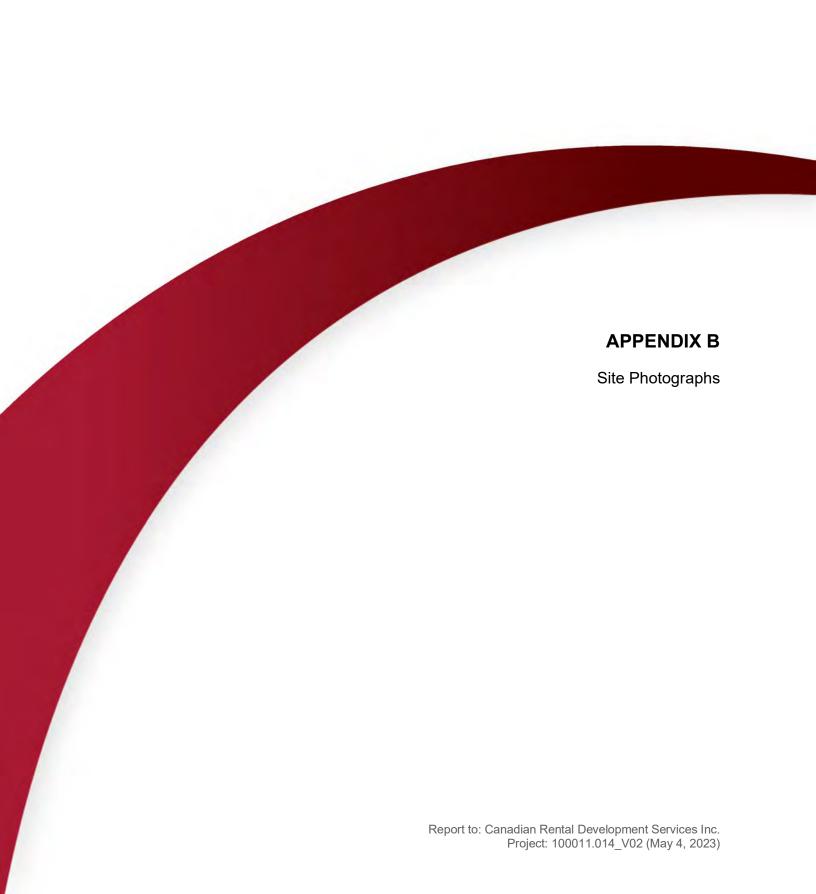














Site Photograph 1 – Tributary 2



Site Photograph 3 – Tributary 2 Riparian



Site Photograph 2 - Tributary 2



Site Photograph 4 – Tributary 2 Riparian



Project

Tree Conservation Report 910 March Road Ottawa, Ontario APPENDIX B

File No.

100011.014

Site Photographs



Site Photograph 5 – Tributary 3



Site Photograph 7 – Tributary 3 Riparian



Site Photograph 6 – Tributary 3



Site Photograph 8 – Riparian Confluence for Tributary 2 and 3



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Tree Conservation Report 910 March Road Ottawa, Ontario

#### APPENDIX B

File No.

100011.014

Site Photographs



Site Photograph 9 – Inlet for Tributary 4



Site Photograph 11 – Previous Development Onsite



Site Photograph 10 – Barn Swallow Habitat Compensation



Site Photograph 12 – Previous Development Onsite



Project

Tree Conservation Report 910 March Road Ottawa, Ontario APPENDIX B

File No.

100011.014

Site Photographs

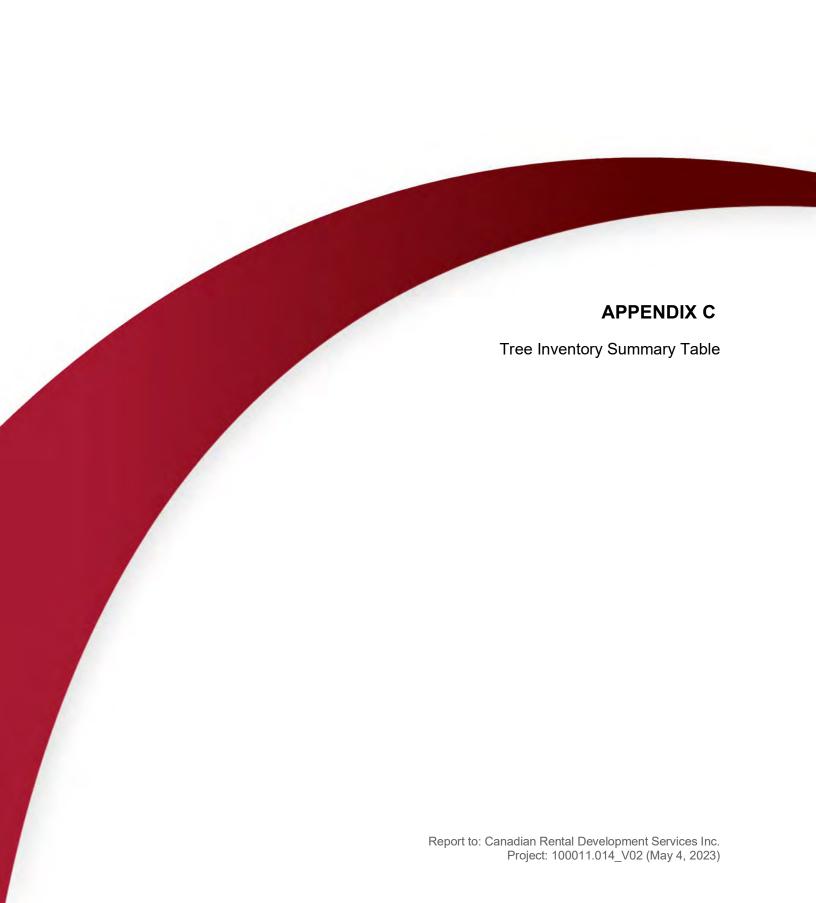


TABLE C.1
TREE INVENTORY

Tree Number	Common Name	Scientific Name	Diameter (cm DBH)	Critical Root Zone (cm)	Condition	Retainable or Conflict	Signficant Tree (> 50 cm)	Wildlife Tree
1	Manitoba maple	Acer negundo	36	358	Healthy	Retainable	No	No
2	Manitoba maple	Acer negundo	50	501	Healthy	Retainable	Yes	Yes
3	Black Ash	Fraxinus nigra	19	185	Poor	Retainable	No	No
4	Black Ash	Fraxinus nigra	19	185	Poor	Retainable	No	No
5	Willow	Salix sp.	19	185	Good	Retainable	No	No
6	Willow	Salix sp.	25	250	Healthy	Retainable	No	No
7	Willow	Salix sp.	58	580	Healthy	Retainable	Yes	No
8	Black Ash	Fraxinus nigra	22	217	Poor	Retainable	No	No
9	Willow	Salix sp.	36	355	Healthy	Retainable	No	No
10	Willow	Salix sp.	20	200	Healthy	Retainable	No	No
11	Green Ash	Fraxinus pennsylvanica	33	328	Poor	Retainable	No	No
12	Manitoba maple	Acer negundo	64	636	Healthy	Retainable	Yes	No
13	Manitoba maple	Acer negundo	40	398	Healthy	Conflict	No	No
14	Manitoba maple	Acer negundo	27	270	Healthy	Conflict	No	No
15	Manitoba maple	Acer negundo	25	245	Healthy	Conflict	No	No
16	Manitoba maple	Acer negundo	34	335	Healthy	Retainable	No	No
17	Manitoba maple	Acer negundo	23	228	Healthy	Retainable	No	No
18	Manitoba maple	Acer negundo	43	432	Healthy	Retainable	No	No
19	Manitoba maple	Acer negundo	25	250	Healthy	Retainable	No	No
20	Willow	Salix sp.	151	1510	Healthy	Conflict	Yes	Yes
21	Manitoba maple	Acer negundo	29	290	Healthy	Retainable	No	No
22	Manitoba maple	Acer negundo	17	165	Healthy	Retainable	No	No
23	Manitoba maple	Acer negundo	24	235	Healthy	Retainable	No	No
24	Manitoba maple	Acer negundo	19	192	Healthy	Retainable	No	No
25	Willow	Salix sp.	37	102	Dead	Retainable	No	Yes
26	Manitoba maple	Acer negundo	20	198	Healthy	Retainable	No	No
27	Willow	Salix sp.	47	466	Good	Retainable	No	Yes
28	Willow	Salix sp.	55	550	Good	Retainable	Yes	Yes
29	Green Ash	Fraxinus pennsylvanica	14	135	Poor	Retainable	No	No
30	Green Ash	Fraxinus pennsylvanica	14	135	Poor	Retainable	No	No
31	Willow	Salix sp.	20	200	Healthy	Retainable	No	No
32	Willow	Salix sp.	29	287	Healthy	Retainable	No	No
33	Manitoba maple	Acer negundo	43	435	Healthy	Retainable	No	No
34	•			340	•			
	Manitoba maple	Acer negundo	34 15		Healthy	Retainable	No	No
35	Eastern cottonwood	Populus deltoides		150	Healthy	Retainable	No	No
36	Manitoba maple	Acer negundo	26	260	Healthy	Retainable	No	No
37	Manitoba maple	Acer negundo	21	214	Healthy	Retainable	No	Yes
38	Manitoba maple	Acer negundo	35	353	Healthy	Conflict	No	No
39	Manitoba maple	Acer negundo	25	246	Healthy	Conflict	No	No
40	Manitoba maple	Acer negundo	33	329	Healthy	Conflict	No	No
41	Manitoba maple	Acer negundo	20	200	Healthy	Retainable	No	No
42	Manitoba maple	Acer negundo	15	150	Healthy	Retainable	No	No
43	Manitoba maple	Acer negundo	21	212	Healthy	Retainable	No	No
44	Manitoba maple	Acer negundo	15	150	Healthy	Retainable	No	No
45	Manitoba maple	Acer negundo	31	311	Healthy	Retainable	No	No
46	Manitoba maple	Acer negundo	30	303	Healthy	Retainable	No	No
47	Manitoba maple	Acer negundo	42	418	Healthy	Conflict	No	No
48	Manitoba maple	Acer negundo	37	369	Healthy	Conflict	No	No
49	Manitoba maple	Acer negundo	32	324	Healthy	Conflict	No	No
50	Manitoba maple	Acer negundo	23	230	Healthy	Conflict	No	No
51	American Elm	Ulmus americana	52		Dead	Retainable	Yes	Yes



# TABLE C.1 TREE INVENTORY

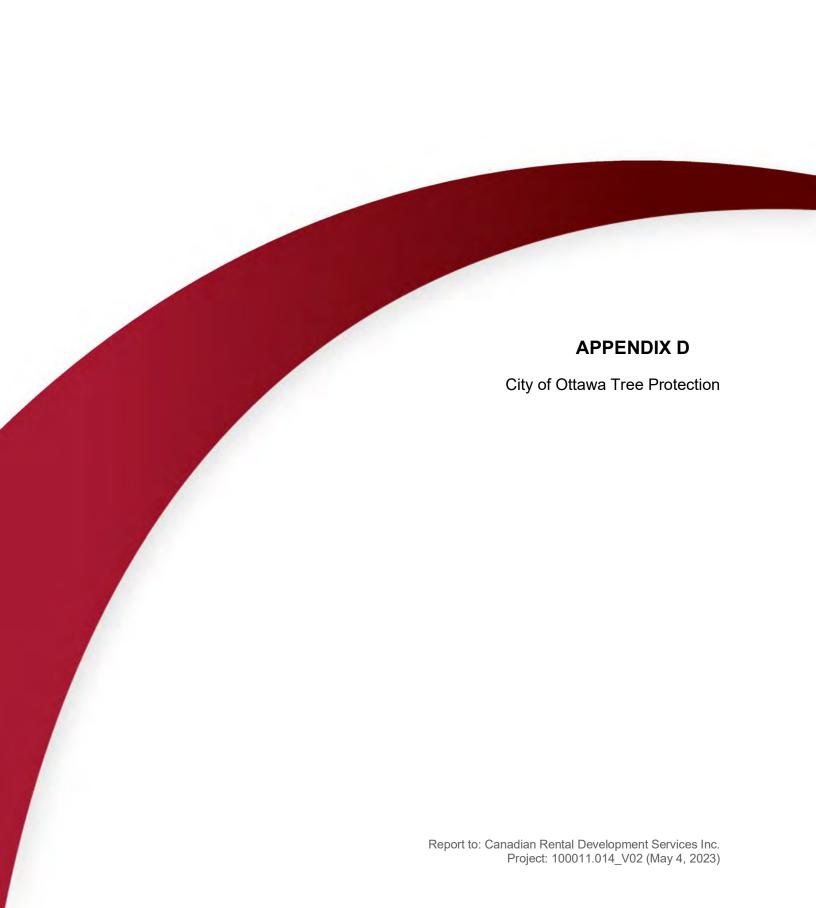
S3   Sugar maple   Acer asccharum   32   320   Healthy   Refamable   No   No   No   S5   White Ash   Fraxmus americana   16   Dead   Refamable   No   No   No   No   No   No   No   N	52	Green Ash	Fraxinus pennsylvanica	22	220	Poor	Retainable	No	No
State   Cherry   Printer servicine   49   40   40   40   40   40   40   40	53	Sugar maple		32	320	Healthy	Retainable	No	No
55   White Ash   Frazinus americana   16   Dead   Retainable   No   No   No   S7   Red Pine   Prinus resinosa   27   270   Healthy   Retainable   No   No   No   S8   Red Pine   Prinus resinosa   27   270   Healthy   Retainable   No   No   No   S8   Red Pine   Prinus resinosa   27   270   Healthy   Retainable   No   No   No   S8   Red Pine   Prinus resinosa   27   270   Healthy   Retainable   No   No   No   No   No   Red Pine   Prinus resinosa   27   270   Healthy   Retainable   No   No   No   No   Red Pine   Prinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Prinus resinosa   27   270   Prinus   P			Prunus serotina	49	490	Good	Retainable	No	No
55   White Ash   Frazius americans   16   Dead   Retainable   No   No   No   S8   Red Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   14   140   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   28   Red Pine   Pinus resinosa   29   20   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   29   20   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   29   20   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   29   20   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   29   20   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   20   20   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   21   21   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   27   27   28   Pinus   Retainable   No   No   No   Red Pine   Pinus resinosa   28   28   28   Pinus			Fraxinus americana			Dead	Retainable		No
57   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   59   Red Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   60   Crabappile   Matus 5p.   15   150   Healthy   Retainable   No   No   No   61   Rock Elm   Umus thomasii   14   140   Healthy   Retainable   No   No   Yes   15   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   Yes   15   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   No   No   No   No   N		White Ash	Fraxinus americana	16		Dead	Retainable		No
Se		Red Pine	Pinus resinosa		270	Healthy	Retainable	No	No
60   Crabapple   Malus sp.   15   150   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   14   140   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   14   140   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   14   160   Healthy   Retainable   No   No   No   Rock Elm   Ulmus thomasii   12   17   Retainable   No   No   No   Rock Elm   Ulmus thomasii   12   17   Retainable   No   No   No   Rock Elm   Ulmus thomasii   12   17   Retainable   No   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasii   12   12   12   12   12   12   12						•			
61   Rock Elm   Ulmus thomasii   14   140   Healthy   Retainable   No   No   No   Rock Elm   Praxis americana   22   Dead   Retainable   No   No   No   No   Rock Elm   Praxis americana   27   270   Healthy   Retainable   No   No   No   Rock Elm   Praxis resinosa   27   270   Healthy   Retainable   No   No   No   Rock Elm   Praxis resinosa   29   285   Healthy   Retainable   No   No   No   Rock Elm   Praxis resinosa   29   285   Healthy   Retainable   No   No   No   Rock Elm   Praxis americana   32   315   Healthy   Retainable   No   No   No   Rock Elm   Praxis americana   44   435   Poor   Rotalnable   No   No   Rock Elm   Praxis americana   44   435   Poor   Rotalnable   No   No   Rock Elm   Praxis americana   26   260   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   26   260   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   24   240   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   25   250   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   26   260   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   250   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   27   270   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   27   270   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   26   260   Hea	59	Red Pine	Pinus resinosa	27	270	Healthy	Retainable	No	No
61   Rock Elm   Ulmus thomasii   14   140   Healthy   Retainable   No   No   No   Rock Elm   Praxis americana   22   Dead   Retainable   No   No   No   No   Rock Elm   Praxis americana   27   270   Healthy   Retainable   No   No   No   Rock Elm   Praxis resinosa   27   270   Healthy   Retainable   No   No   No   Rock Elm   Praxis resinosa   29   285   Healthy   Retainable   No   No   No   Rock Elm   Praxis resinosa   29   285   Healthy   Retainable   No   No   No   Rock Elm   Praxis americana   32   315   Healthy   Retainable   No   No   No   Rock Elm   Praxis americana   44   435   Poor   Rotalnable   No   No   Rock Elm   Praxis americana   44   435   Poor   Rotalnable   No   No   Rock Elm   Praxis americana   26   260   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   26   260   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   24   240   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   25   250   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   26   260   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   250   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   23   255   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   27   270   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   27   270   Healthy   Retainable   No   No   Rock Elm   Praxis resinosa   26   260   Hea	60	Crabapple	Malus sp.	15	150	Healthy	Retainable	No	No
62   White Ash   Frazinus americane   22   Dead   Retainable   No   Yes			•			•			No
63   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   Red Pine   Pinus resinosa   29   285   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   285   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   24   240   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   24   240   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   24   240   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   250   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   230   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   230   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   28   29   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Heal						•			
64 Rod Pine   Pinus resinosa   33   330   Healthy   Retainable   No   No   No   66   Rod Pine   Pinus resinosa   29   285   Healthy   Retainable   No   No   No   66   Tamarack   Lafix floricina   32   315   Healthy   Retainable   No   No   No   No   Rod   Retainable   Retainable   Rod   Retainable   Rod   Retainable   Rod   Retainable   Rod   Retainable   Retainable   Rod   Retainable					270				
66   Red Pine   Pinus resinosa   29   285   Healthy   Retainable   No   No   No   67   Tamarack   Lark Itaricina   29   290   Healthy   Retainable   No   No   No   68   White Ash   Fraxinus americana   44   435   Poor   Retainable   No   No   No   Yes   68   Green Ash   Fraxinus pennsylvanica   17   Dead   Retainable   No   No   No   Rod Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   24   240   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   23   230   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   23   230   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Rod Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Rod Pine   Pin			Pinus resinosa						
66   Tamarack   Larix laricina   32   315   Healthy   Retainable   No   No   67   Tamarack   Larix laricina   29   290   Healthy   Retainable   No   No   No   68   White Ash   Fraxinus americana   44   435   Poor   Retainable   No   No   No   70   Red Pine   Fraxinus americana   44   435   Poor   Retainable   No   No   No   70   Red Pine   Fraxinus americana   26   260   Healthy   Retainable   No   No   No   71   Rad Pine   Fraxinus essensa   26   260   Healthy   Retainable   No   No   No   72   Rock Elm   Ulmus thomasis   12   120   Healthy   Retainable   No   No   No   73   Red Pine   Fraxinus essensa   24   240   Healthy   Retainable   No   No   No   74   Red Pine   Fraxinus essensa   25   250   Healthy   Retainable   No   No   No   74   Red Pine   Fraxinus essensa   25   250   Healthy   Retainable   No   No   No   75   Red Pine   Fraxinus essensa   26   260   Healthy   Retainable   No   No   No   76   Red Pine   Fraxinus essensa   21   210   Healthy   Retainable   No   No   No   77   Red Pine   Fraxinus essensa   23   225   Healthy   Retainable   No   No   No   78   Red Pine   Fraxinus essensa   20   220   Healthy   Retainable   No   No   No   78   Red Pine   Fraxinus essensa   20   220   Healthy   Retainable   No   No   No   79   Red Pine   Fraxinus essensa   27   270   Healthy   Retainable   No   No   No   80   Red Pine   Fraxinus essensa   27   270   Healthy   Retainable   No   No   No   81   Willow   Salix sp.   54   544   Healthy   Retainable   No   No   82   Red Pine   Fraxinus ersensa   29   290   Healthy   Retainable   No   No   No   83   Black Cherry   Fraxinus americana   21   Dead   Retainable   No   No   No   84   Wiltow   Fraxinus americana   21   Dead   Retainable   No   No   No   86   White Ash   Fraxinus americana   23   Dead   Retainable   No   No   No   87   Red Pine   Fraxinus americana   23   Dead   Retainable   No   No   No   88   Heavthorns   Crateguis sp.   27   270   Healthy   Retainable   No   No   No   89   Heavthorns   Crateguis sp.   27   270   Healthy   Retainable   No   No						•			
67   Tamarack   Larix laricina   29   290   Healthy   Retainable   No   No   68   Green Ash   Fraxinus americane   44   435   Poor   Retainable   No   No   No   No   Red   Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   No   No   No   No   N						,			
68         White Ash         Fraxinus americana         44         435         Poor Retainable         No         Yes           69         Green Ash         Fraxinus pennsylvanica         26         260         Healthy         Retainable         No         No <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td>						•			
69   Green Ash   Fraxinus pennsylvanica   17   Dead   Retainable   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   No   71   Red Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   24   240   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   24   240   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   25   250   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   26   260   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   21   210   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   225   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   230   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   23   230   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   27   270   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   Red Pine   Pinus resinosa   29   290   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   21   205   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   21   205   Healthy   Retainable   No   No   No   No   Red Pine   Pinus resinosa   21   220   Healthy   Retainable   No   No						•			
70         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No           71         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No         No           72         Rock Elm         Ulmus thomasii         12         120         Healthy         Retainable         No         No           74         Red Pine         Pinus resinosa         25         250         Healthy         Retainable         No         No           75         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No         No           76         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No         No           77         Red Pine         Pinus resinosa         23         225         Healthy         Retainable         No         No           79         Red Pine         Pinus resinosa         23         230         Healthy         Retainable         No         No           80         Red Pine         Pinus resinosa         23         230         Healthy         Retainable<									
71         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No         No           72         Rock Elm         Ulmus thomasii         12         120         Healthy         Retainable         No         No           73         Red Pine         Pinus resinosa         24         240         Healthy         Retainable         No         No           74         Red Pine         Pinus resinosa         25         250         Healthy         Retainable         No         No           75         Red Pine         Pinus resinosa         26         286         Healthy         Retainable         No         No         No           76         Red Pine         Pinus resinosa         23         225         Healthy         Retainable         No         No         No           78         Red Pine         Pinus resinosa         23         230         Healthy         Retainable         No         No         No           80         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No           81         Williow         Salix sp.         54         544         He			, ,		260				
72         Rock Elm         Ulmus thomasii         12         120         Healthy         Retainable         No         No           73         Red Pine         Pinus resinosa         24         240         Healthy         Retainable         No         No           74         Red Pine         Pinus resinosa         25         250         Healthy         Retainable         No         No           75         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No         No           76         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No         No         No           78         Red Pine         Pinus resinosa         20         200         Healthy         Retainable         No         No         No           79         Red Pine         Pinus resinosa         23         230         Healthy         Retainable         No         No         No           80         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No         No         No         No         No         No         No	71	Red Pine	Pinus resinosa			•	Retainable		No
73         Red Pine         Pinus resinosa         24         240         Healthy         Retainable         No         No           74         Red Pine         Pinus resinosa         25         250         Healthy         Retainable         No         No           75         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No           76         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No         No           77         Red Pine         Pinus resinosa         23         225         Healthy         Retainable         No         No           80         Red Pine         Pinus resinosa         23         230         Healthy         Retainable         No         No           80         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No           81         Willow         Salix sp.         54         544         Healthy         Retainable         No         No           82         Red Pine         Pinus resinosa         29         290         Healthy         Retainable         No		Rock Elm	Ulmus thomasii	12	120	•	Retainable	No	No
74         Red Pine         Pinus resinosa         25         250         Healthy         Retainable         No         No           75         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No           76         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No         No           77         Red Pine         Pinus resinosa         23         225         Healthy         Retainable         No         No           79         Red Pine         Pinus resinosa         23         230         Healthy         Retainable         No         No           80         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No           81         Willow         Salix sp.         54         544         Healthy         Retainable         No         No         No           82         Red Pine         Pinus resinosa         29         290         Healthy         Retainable         No         No         No         No         No         Ro         8         Subtinus Asia         Fraxinus americana         21			Pinus resinosa			•			
75         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No           76         Red Pine         Pinus resinosa         21         210         Healthy         Retainable         No			Pinus resinosa		250	•	Retainable	No	No
77         Red Pine         Pinus resinosa         23         225         Healthy         Retainable         No         No           78         Red Pine         Pinus resinosa         20         200         Healthy         Retainable         No						•			
77         Red Pine         Pinus resinosa         23         225         Healthy         Retainable         No         No           78         Red Pine         Pinus resinosa         20         200         Healthy         Retainable         No	76	Red Pine	Pinus resinosa	21	210	Healthy	Retainable	No	No
78         Red Pine         Pinus resinosa         20         200         Healthy         Retainable         No         No           79         Red Pine         Pinus resinosa         23         230         Healthy         Retainable         No         No           80         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No           81         Willow         Salix sp.         54         544         Healthy         Retainable         No         No           82         Red Pine         Pinus resinosa         29         290         Healthy         Retainable         No         No           83         Black Cherry         Prunus serotina         21         205         Healthy         Retainable         No         No           84         White Ash         Fraxinus americana         21         Dead         Retainable         No         No         Yes           85         White Ash         Fraxinus americana         23         Dead         Retainable         No         No         Yes           87         Sugar Maple         Acer saccharum         40         400         Healthy         Retainable <t< td=""><td></td><td>Red Pine</td><td>Pinus resinosa</td><td>23</td><td>225</td><td>•</td><td>Retainable</td><td></td><td>No</td></t<>		Red Pine	Pinus resinosa	23	225	•	Retainable		No
80         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No           81         Willow         Salix sp.         54         544         Healthy         Retainable         Yes         No           82         Red Pine         Pinus resinosa         29         290         Healthy         Retainable         No         No         No           83         Black Cherry         Prunus serotina         21         205         Healthy         Retainable         No         No         No         No           84         White Ash         Fraxinus americana         21         Dead         Retainable         No         No         No         No         86         White Ash         Fraxinus americana         23         Dead         Retainable         No         No         No         No         86         White Ash         Fraxinus americana         23         Dead         Retainable         No         N	78	Red Pine	Pinus resinosa	20	200	Healthy	Retainable	No	No
81         Willow         Salix sp.         54         544         Healthy         Retainable         Yes         No           82         Red Pine         Pinus resinosa         29         290         Healthy         Retainable         No         No           83         Black Cherry         Prunus serotina         21         205         Healthy         Retainable         No         No           84         White Ash         Fraxinus americana         21         Dead         Retainable         No         No           85         White Ash         Fraxinus americana         16         160         Dead         Retainable         No         No           86         White Ash         Fraxinus americana         23         Dead         Retainable         No         No         Yes           87         Sugar Maple         Acer saccharum         40         400         Healthy         Retainable         No         No         No           88         Rock Elm         Ulmus thomasii         14         140         Healthy         Retainable         No         No         No           90         Red Pine         Pinus resinosa         27         270         Healthy         Reta	79	Red Pine	Pinus resinosa	23	230	Healthy	Retainable	No	No
82         Red Pine         Pinus resinosa         29         290         Healthy         Retainable         No         No           83         Black Cherry         Prunus serotina         21         205         Healthy         Retainable         No         No           84         White Ash         Fraxinus americana         21         Dead         Retainable         No         Yes           85         White Ash         Fraxinus americana         16         160         Dead         Retainable         No         No         No           86         White Ash         Fraxinus americana         23         Dead         Retainable         No         No         Yes           87         Sugar Maple         Acer saccharum         40         400         Healthy         Retainable         No         No         No           88         Rock Elm         Ulmus thomasii         14         140         Healthy         Retainable         No         No         No           89         Hawthorns         Crataegus sp.         27         270         Healthy         Retainable         No         No         No         No         No         No         No         No         No	80	Red Pine	Pinus resinosa	27	270	Healthy	Retainable	No	No
83         Black Cherry         Prunus serotina         21         205         Healthy         Retainable         No         No           84         White Ash         Fraxinus americana         21         Dead         Retainable         No         Yes           85         White Ash         Fraxinus americana         16         160         Dead         Retainable         No         No           86         White Ash         Fraxinus americana         23         Dead         Retainable         No         No           87         Sugar Maple         Acer saccharum         40         400         Healthy         Retainable         No         No           88         Rock Elm         Ulmus thomasii         14         140         Healthy         Retainable         No         No           89         Hawthorns         Crataegus sp.         27         270         Healthy         Retainable         No         No         No           90         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No         No           92         Red Pine         Pinus resinosa         20         200         Healthy         Retainable	81	Willow	Salix sp.	54	544	Healthy	Retainable	Yes	No
84         White Ash         Fraxinus americana         21         Dead         Retainable         No         Yes           85         White Ash         Fraxinus americana         16         160         Dead         Retainable         No         No           86         White Ash         Fraxinus americana         23         Dead         Retainable         No         No           87         Sugar Maple         Acer saccharum         40         400         Healthy         Retainable         No         No           88         Rock Elm         Ulmus thomasii         14         140         Healthy         Retainable         No         No           89         Hawthorns         Crataegus sp.         27         270         Healthy         Retainable         No         No           90         Red Pine         Pinus resinosa         27         270         Healthy         Retainable         No         No           91         Red Pine         Pinus resinosa         26         260         Healthy         Retainable         No         No           92         Red Pine         Pinus resinosa         18         180         Healthy         Retainable         No         No <td>82</td> <td>Red Pine</td> <td>Pinus resinosa</td> <td>29</td> <td>290</td> <td>Healthy</td> <td>Retainable</td> <td>No</td> <td>No</td>	82	Red Pine	Pinus resinosa	29	290	Healthy	Retainable	No	No
85White AshFraxinus americana16160DeadRetainableNoNo86White AshFraxinus americana23DeadRetainableNoYes87Sugar MapleAcer saccharum40400HealthyRetainableNoNo88Rock ElmUlmus thomasii14140HealthyRetainableNoNo89HawthornsCrataegus sp.27270HealthyRetainableNoNo90Red PinePinus resinosa27270HealthyRetainableNoNo91Red PinePinus resinosa26260HealthyRetainableNoNo92Red PinePinus resinosa20200HealthyRetainableNoNo93Red PinePinus resinosa18180HealthyRetainableNoNo94Sugar MapleAcer saccharum16160GoodRetainableNoNo95Black CherryPrunus serotina22216HealthyRetainableNoNo96Sugar MapleAcer saccharum18180HealthyRetainableNoNo97Sugar MapleAcer saccharum20200HealthyRetainableNoNo98CrabappleMalus sp.59588GoodRetainableNoYes100White AshFraxinus americana33D	83	Black Cherry	Prunus serotina	21	205	Healthy	Retainable	No	No
86White AshFraxinus americana23DeadRetainableNoYes87Sugar MapleAcer saccharum40400HealthyRetainableNoNo88Rock ElmUlmus thomasii14140HealthyRetainableNoNo89HawthornsCrataegus sp.27270HealthyRetainableNoNo90Red PinePinus resinosa27270HealthyRetainableNoNo91Red PinePinus resinosa26260HealthyRetainableNoNo92Red PinePinus resinosa20200HealthyRetainableNoNo93Red PinePinus resinosa18180HealthyRetainableNoNo94Sugar MapleAcer saccharum16160GoodRetainableNoNo95Black CherryPrunus serotina22216HealthyRetainableNoNo96Sugar MapleAcer saccharum18180HealthyRetainableNoNo97Sugar MapleAcer saccharum20200HealthyRetainableNoNo98CrabappleMalus sp.59588GoodRetainableNoYes99White AshFraxinus americana33DeadRetainableNoYes101Sugar MapleAcer saccharum22220He	84	White Ash	Fraxinus americana	21		Dead	Retainable	No	Yes
87 Sugar Maple Acer saccharum 40 400 Healthy Retainable No No No 88 Rock Elm Ulmus thomasii 14 140 Healthy Retainable No No No 89 Hawthorns Crataegus sp. 27 270 Healthy Retainable No No No 90 Red Pine Pinus resinosa 27 270 Healthy Retainable No No No 91 Red Pine Pinus resinosa 26 260 Healthy Retainable No No No 92 Red Pine Pinus resinosa 26 260 Healthy Retainable No No No 93 Red Pine Pinus resinosa 20 200 Healthy Retainable No No No 94 Sugar Maple Acer saccharum 16 160 Good Retainable No No 95 Black Cherry Prunus serotina 22 216 Healthy Retainable No No 96 Sugar Maple Acer saccharum 18 180 Healthy Retainable No No 97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No No 98 Crabapple Acer saccharum 20 200 Healthy Retainable No No No 98 Crabapple Malus sp. 59 588 Good Retainable No No No 100 No 10	85	White Ash	Fraxinus americana	16	160	Dead	Retainable	No	No
Red Rock Elm Ulmus thomasii 14 140 Healthy Retainable No No No Red Pine Pinus resinosa 27 270 Healthy Retainable No No No Pinus Red Pine Pinus resinosa 26 260 Healthy Retainable No No No Pinus Red Pine Pinus resinosa 26 260 Healthy Retainable No No No Pinus Red Pine Pinus resinosa 20 200 Healthy Retainable No No No Pinus Red Pine Pinus resinosa 20 200 Healthy Retainable No No No Pinus Red Pine Pinus resinosa 18 180 Healthy Retainable No No No Pinus Pinus Red Pine Pinus resinosa 18 180 Healthy Retainable No No Pinus Pinus Red Pine Pinus Red Pinus Pinus Red Pine Pinus Red Pine Pinus Red Pine Pinus Red Pinus	86	White Ash	Fraxinus americana	23		Dead	Retainable	No	Yes
89HawthornsCrataegus sp.27270HealthyRetainableNoNo90Red PinePinus resinosa27270HealthyRetainableNoNo91Red PinePinus resinosa26260HealthyRetainableNoNo92Red PinePinus resinosa20200HealthyRetainableNoNo93Red PinePinus resinosa18180HealthyRetainableNoNo94Sugar MapleAcer saccharum16160GoodRetainableNoNo95Black CherryPrunus serotina22216HealthyRetainableNoNo96Sugar MapleAcer saccharum18180HealthyRetainableNoNo97Sugar MapleAcer saccharum20200HealthyRetainableNoNo98CrabappleMalus sp.59588GoodRetainableYesYes99White AshFraxinus americana33DeadRetainableNoYes100White AshFraxinus americana29DeadRetainableNoYes101Sugar MapleAcer saccharum22220HealthyRetainableNoNo102Bur OakQuercus macrocarpa34340HealthyRetainableNoNo	87	Sugar Maple	Acer saccharum	40	400	Healthy	Retainable	No	No
90 Red Pine Pinus resinosa 27 270 Healthy Retainable No No No 91 Red Pine Pinus resinosa 26 260 Healthy Retainable No No No 92 Red Pine Pinus resinosa 20 200 Healthy Retainable No No No 93 Red Pine Pinus resinosa 18 180 Healthy Retainable No No No 94 Sugar Maple Acer saccharum 16 160 Good Retainable No No No 95 Black Cherry Prunus serotina 22 216 Healthy Retainable No No No 96 Sugar Maple Acer saccharum 18 180 Healthy Retainable No No No 97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No No 98 Crabapple Malus sp. 59 588 Good Retainable No No No 98 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No Yes 101 Sugar Maple Acer saccharum 29 Healthy Retainable No Yes 101 Sugar Maple Acer saccharum 29 Healthy Retainable No Yes 101 Sugar Maple Acer saccharum 29 Dead Retainable No No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No No	88	Rock Elm	Ulmus thomasii	14	140	Healthy	Retainable	No	No
91 Red Pine Pinus resinosa 26 260 Healthy Retainable No No No 92 Red Pine Pinus resinosa 20 200 Healthy Retainable No No No 93 Red Pine Pinus resinosa 18 180 Healthy Retainable No No No 94 Sugar Maple Acer saccharum 16 160 Good Retainable No No No 95 Black Cherry Prunus serotina 22 216 Healthy Retainable No No No 96 Sugar Maple Acer saccharum 18 180 Healthy Retainable No No No 97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No No 98 Crabapple Malus sp. 59 588 Good Retainable No No No 98 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No No Yes 101 Sugar Maple Acer saccharum 20 Healthy Retainable No No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No No	89	Hawthorns	Crataegus sp.	27	270	Healthy	Retainable	No	No
92Red PinePinus resinosa20200HealthyRetainableNoNo93Red PinePinus resinosa18180HealthyRetainableNoNo94Sugar MapleAcer saccharum16160GoodRetainableNoNo95Black CherryPrunus serotina22216HealthyRetainableNoNo96Sugar MapleAcer saccharum18180HealthyRetainableNoNo97Sugar MapleAcer saccharum20200HealthyRetainableNoNo98CrabappleMalus sp.59588GoodRetainableYesYes99White AshFraxinus americana33DeadRetainableNoYes100White AshFraxinus americana29DeadRetainableNoYes101Sugar MapleAcer saccharum22220HealthyRetainableNoNo102Bur OakQuercus macrocarpa34340HealthyRetainableNoNo	90	Red Pine	Pinus resinosa	27	270	Healthy	Retainable	No	No
93Red PinePinus resinosa18180HealthyRetainableNoNo94Sugar MapleAcer saccharum16160GoodRetainableNoNo95Black CherryPrunus serotina22216HealthyRetainableNoNo96Sugar MapleAcer saccharum18180HealthyRetainableNoNo97Sugar MapleAcer saccharum20200HealthyRetainableNoNo98CrabappleMalus sp.59588GoodRetainableYesYes99White AshFraxinus americana33DeadRetainableNoYes100White AshFraxinus americana29DeadRetainableNoYes101Sugar MapleAcer saccharum22220HealthyRetainableNoNo102Bur OakQuercus macrocarpa34340HealthyRetainableNoNo	91	Red Pine	Pinus resinosa	26	260	Healthy	Retainable	No	No
94 Sugar Maple Acer saccharum 16 160 Good Retainable No No No 95 Black Cherry Prunus serotina 22 216 Healthy Retainable No No No 96 Sugar Maple Acer saccharum 18 180 Healthy Retainable No No No 97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No No 98 Crabapple Malus sp. 59 588 Good Retainable Yes Yes 99 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No No	92	Red Pine	Pinus resinosa	20	200	Healthy	Retainable	No	No
95 Black Cherry Prunus serotina 22 216 Healthy Retainable No No No 96 Sugar Maple Acer saccharum 18 180 Healthy Retainable No No No 97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No No 98 Crabapple Malus sp. 59 588 Good Retainable Yes Yes 99 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No No	93	Red Pine	Pinus resinosa	18	180	Healthy	Retainable	No	No
96 Sugar Maple Acer saccharum 18 180 Healthy Retainable No No 97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No 98 Crabapple Malus sp. 59 588 Good Retainable Yes Yes 99 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No		Sugar Maple	Acer saccharum		160	Good	Retainable	No	No
97 Sugar Maple Acer saccharum 20 200 Healthy Retainable No No 98 Crabapple Malus sp. 59 588 Good Retainable Yes Yes 99 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No	95	Black Cherry	Prunus serotina	22	216	Healthy	Retainable	No	No
98 Crabapple Malus sp. 59 588 Good Retainable Yes Yes 99 White Ash Fraxinus americana 33 Dead Retainable No Yes 100 White Ash Fraxinus americana 29 Dead Retainable No Yes 101 Sugar Maple Acer saccharum 22 220 Healthy Retainable No No 102 Bur Oak Quercus macrocarpa 34 340 Healthy Retainable No No		Sugar Maple	Acer saccharum				Retainable		
99White AshFraxinus americana33DeadRetainableNoYes100White AshFraxinus americana29DeadRetainableNoYes101Sugar MapleAcer saccharum22220HealthyRetainableNoNo102Bur OakQuercus macrocarpa34340HealthyRetainableNoNo	97	Sugar Maple	Acer saccharum			Healthy	Retainable	No	No
100White AshFraxinus americana29DeadRetainableNoYes101Sugar MapleAcer saccharum22220HealthyRetainableNoNo102Bur OakQuercus macrocarpa34340HealthyRetainableNoNo		Crabapple	Malus sp.		588	Good	Retainable	Yes	
101Sugar MapleAcer saccharum22220HealthyRetainableNoNo102Bur OakQuercus macrocarpa34340HealthyRetainableNoNo	99	White Ash	Fraxinus americana			Dead	Retainable	No	Yes
102 Bur Oak <i>Quercus macrocarpa</i> 34 340 Healthy Retainable No No	100	White Ash	Fraxinus americana			Dead	Retainable	No	
	101	Sugar Maple	Acer saccharum		220	Healthy	Retainable	No	No
102 White Ash Fravious amaziness 20 Dood Detainable		Bur Oak	Quercus macrocarpa		340		Retainable		
100 White Asit Fraxillus americana 30 Dead Retainable NO Yes	103	White Ash	Fraxinus americana	30		Dead	Retainable	No	Yes
104 Black Cherry <i>Prunus serotina</i> 18 180 Healthy Retainable No No	104	Black Cherry	Prunus serotina	18	180	Healthy	Retainable	No	No



TABLE C.1
TREE INVENTORY

105	Sugar Maple	Acer saccharum	20	200	Healthy	Retainable	No	No
106	White Ash	Fraxinus americana	70	200	Dead	Retainable	Yes	Yes
107	Manitoba maple	Acer negundo	18	180	Healthy	Retainable	No	No
107	Manitoba maple	Acer negundo	15	150	Healthy	Retainable	No	No
109	Willow	Salix sp.	20	200	Healthy	Retainable	No	Yes
1109		Acer saccharum	20	200	Healthy	Retainable	No	No
111	Sugar maple	Acer saccharum  Acer saccharum	15	150		Retainable	No	No
	Sugar maple				Healthy	Retainable		
112	Manitoba maple	Acer negundo	15	150	Healthy		No	No
113	Black Cherry	Prunus serotina	54	535	Healthy	Retainable	Yes	No
114	Black Cherry	Prunus serotina	57	570	Healthy	Retainable	Yes	No
115	White Ash	Fraxinus americana	58		Dead	Retainable	Yes	No
116	Sugar Maple	Acer saccharum	20	200	Healthy	Retainable	No	No
117	Sugar Maple	Acer saccharum	15	150	Healthy	Retainable	No	No
118	White Ash	Fraxinus americana	51		Dead	Retainable	Yes	No
119	American Elm	Ulmus thomasii	47		Dead	Retainable	No	Yes
120	Black Cherry	Prunus serotina	45	445	Healthy	Retainable	No	No
121	American Elm	Ulmus americana	25		Dead	Retainable	No	Yes
122	White Ash	Fraxinus americana	33		Dead	Retainable	No	Yes
123	White Ash	Fraxinus americana	41		Dead	Retainable	No	Yes
124	Crabapple	Malus sp.	29	290	Healthy	Retainable	No	No
125	Black Cherry	Prunus serotina	25	250	Healthy	Retainable	No	No
126	White Ash	Fraxinus americana	88		Dead	Retainable	Yes	Yes
127	Black Cherry	Prunus serotina	26	260	Healthy	Retainable	No	No
128	Black Cherry	Prunus serotina	15	150	Healthy	Retainable	No	No
129	White Ash	Fraxinus americana	20	200	Poor	Retainable	No	No
130	White Ash	Fraxinus americana	20	200	Poor	Retainable	No	No
131	White Ash	Fraxinus americana	25		Dead	Retainable	No	Yes
132	Black Cherry	Prunus serotina	57	570	Healthy	Retainable	Yes	No
133	Manitoba maple	Acer negundo	74	737	Healthy	Retainable	Yes	No
134	White Ash	Fraxinus americana	25		Dead	Retainable	No	Yes
135	White Ash	Fraxinus americana	30		Dead	Retainable	No	Yes
136	White Ash	Fraxinus americana	25		Dead	Retainable	No	Yes
137	Willow	Salix sp.	34	335	Healthy	Retainable	No	No
138	Willow	Salix sp.	30	300	Healthy	Retainable	No	No
139	Willow	Salix sp.	25	250	Healthy	Retainable	No	No
140	Willow	Salix sp.	26	256	Healthy	Retainable	No	No
141	White Ash	Fraxinus americana	30		Dead	Retainable	No	No
142	White Ash	Fraxinus americana	35		Dead	Retainable	No	No
143	Manitoba maple	Acer negundo	47	472	Good	Retainable	No	Yes







civil

geotechnical

environmental

field services

materials testing

civil

géotechnique

environnementale

surveillance de chantier

service de laboratoire des matériaux

