



Guelph Innovation District (Blocks 1 and 2), Guelph

Tree Inventory and Preservation Plan

Prepared for:

Fusion Homes
500 Hanlon Creek Blvd.
Guelph, ON
N1C 0A1

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NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

Guelph Innovation District (Blocks 1 and 2), Guelph

Tree Inventory and Preservation Plan

Project Team

Nathan Miller	Senior Biologist, Project Manager
Tara Brenton	Senior Biologist/Certified Arborist, Component Advisor
Madison Postma	Registered Professional Forester, Component Manager
Kaitlin Filippov	GIS Specialist

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Madison Postma, M.F.C., R.P.F.
Registered Professional Forester

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1.0 Introduction

Natural Resource Solutions Inc. (NRSI) was retained by Fusion Homes (“the Client”) to complete a Tree Inventory and Preservation Plan (TIPP) in support of a Draft Plan of Subdivision for a proposed residential development within the Guelph Innovation District (GID) Blocks 1 and 2 in Guelph, Ontario. The GID Blocks 1 and 2 (hereafter referred to as the ‘subject property’) are bound by the Eramosa River in the north and east, Stone Road to the south, and Victoria Road to the west (Map 1).

The subject property is comprised of a diverse mix of natural and cultural communities. It was previously owned by the University of Guelph which had planted thousands of trees (mostly hybrid poplars, willows, and conifers) as part of their study program. These trees have since been removed by the University, which has created a number of open country habitats and mown lawn surrounding the former agriscience buildings. Ongoing maintenance has been required to prevent the cut poplar trees and willows from re-establishing on this site.

This TIPP was prepared in accordance with the City of Guelph Official Plan (2024), City of Guelph Tree Technical Manual (2025), and the City of Guelph Private Tree Protection By-law (2025) – 21059. The City of Guelph Official Plan (2024) Section 4.1.6 indicates that a TIPP is required for all new development and site alterations affecting individual trees. A Vegetation Compensation Plan, in accordance with the policies of Section 4.1.6.1, shall also be required for the replacement of all healthy, non-invasive trees measuring over 10cm Diameter at Breast Height (DBH) that are proposed to be removed. The Private Tree Protection By-law (2025) states that if an owner wishes to destroy or injure a non-exempt regulated tree, then the owner shall submit the information required in Part 6 of the by-law, which may include a TIPP.

Within the By-law, a regulated tree is defined as:

- a) *a Tree of at least 10 cm DBH located on any Private Lot larger than 0.2 hectares (0.5 acres); and*
- b) *a Tree of at least 30 cm DBH located on any Private Lot.*

The Tree Technical Manual (2025) was developed by the City of Guelph to support and supplement existing policies by outlining best practices for tree management, presenting standards for tree-related plans and reports, and promoting the maintenance and enhancement of Guelph’s tree canopy. This report and associated Vegetation Compensation Plan were

developed in consultation with the Tree Technical Manual (2025) and other aforementioned policies.

This report provides the findings of the tree inventory, analysis of the proposed development plans against existing health and structural integrity of trees, protection measures for trees to be retained, and recommended compensation and mitigation measures. The tree data and mapping (Map 2a-2d) has been compared to the grading plans prepared by MTE (December 2025). These maps show the tree inventory data against the proposed development plans to determine whether existing trees may be impacted. Avoidance, mitigation, and protection measures for trees were examined to determine which trees would be impacted and which could be retained. The tree removal analysis in this report is based on an estimated development area and will require updates during the Detailed Design phase, including additional inventorying of trees to the north and south of the proposed Stormwater Management Facility 2 (SWMF2) area that were not captured during the initial inventories.

2.0 Tree Inventory and Methodology

An inventory and assessment of all trees $\geq 10\text{cm}$ in DBH within the property, as well as those along the subject property boundary with the potential to be impacted by construction, was completed by NRSI Certified Arborists and Registered Professional Foresters (RPF) on November 13 and 14 2023, December 6 2023, January 3 2024, December 6 2024, July 10 2025, and October 28 2025. Individual trees that were $\geq 10\text{cm}$ in DBH were tagged with a pre-numbered aluminum forestry tag and the locations of trees inventoried were surveyed using a mapping-grade U-Blox Dual Band GNSS Receiver GPS unit as shown on Map 1 and Maps 2a-2d. For off-property and inaccessible trees, the DBH was estimated and the trees were assigned a unique alphanumeric identifier. A complete list of the trees that were assessed and their overall health and potential for structural failure is included in Appendix I.

The following information was recorded for inventoried trees:

- Location;
- Tag number/alphanumeric identifier;
- Species (common and scientific name);
- DBH (cm) of the three largest trunks;
- Number of stems;
- Crown radius (metres);
- General health (excellent, good, fair, poor, very poor, snag);
- Potential for structural failure (improbable, possible, probable, imminent);
- General comments (i.e., disease, aesthetic quality, development constraints, prune to reduce structural failure, sensitivity to development, wildlife use (e.g. woodpecker nests), etc.).

The overall health of each tree and potential for structural failure was assessed based on the criteria outlined in Appendix II (Dunster 2009, Dunster *et al.* 2013). In carrying out these assessments, NRSI has exercised a reasonable standard of care, skill and diligence as would be customarily and normally provided in carrying out these assessments. The assessments have been made using accepted arboricultural techniques. These include a visual examination of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the current or planned proximity of property and people. None of the trees examined were

dissected, cored, probed or climbed and detailed root examinations involving excavation were not undertaken. The conditions for this assessment, including restrictions, professional responsibility and third-party liability can be found in Appendix III.

3.0 Summary of Tree Inventory Findings

In total, 877 trees were inventoried, comprising 41 species. Of the trees inventoried and assessed, 539 (61%) are native and 338 (39%) are non-native. A complete list of trees inventoried is provided in Appendix I, and tree locations within the subject property are shown on Maps 1 and 2a-2d.

Appendix IV provides a list of tree species inventoried within the subject property, whether they are native or non-native, their overall health, as well as their potential for structural failure. A majority of the trees inventoried were in fair or good health with a potential for structural failure rating of improbable. A supplementary tree inventory will be required during the Detailed Design phase to assess trees located to the north and south of the proposed SWMF2 area.

4.0 Preliminary Tree Retention Analysis

This preliminary analysis of tree removal and retention is based on the detailed grading plans and anticipated limits of impact (MTE 2025). Updates to the TIPP will be required at the Detailed Design phase, including a supplementary inventory of trees located to the north and south of the proposed SWMF2 area that were not captured during the initial tree inventories. The preliminary tree removal and retention assessment was based on the following considerations;

1. Trees identified as having imminent or probable potential for structural failure and/or are in poor to very poor health and/or are dead within the project limits may be identified for removal where they may pose a safety risk to the adjacent development.
2. Trees that require removal based on the proposed preliminary development plan. This was determined by comparing the trees and their potential root systems to the location of components of the draft plan of development as shown on plans prepared by MHBC (2025) (Maps 2a-2d).

Of the 877 inventoried trees, 700 are recommended for removal. Many of these trees are in direct conflict with the proposed development, or are situated in close proximity to the grading limit and would incur severe root damage as a result of grading.

Table 1 provides a breakdown of the recommended actions. Appendix I includes a list of trees inventoried, their overall health and potential for structural failure, recommended action (retain, remove, etc.) and rationale for removal. Retention and removals are shown on Map 2a-2d, along with their crown radius and tree protection zone (TPZ) distance.

The following categories were included in the analysis:

- **Retain;**
- **Retain – Impact** - these trees have been recommended for retention despite the expectation that a portion of the root system could be affected by the proposed construction activities. This recommendation has been made with the intent of retaining as many existing trees as possible, and anticipating that the affected trees will tolerate the proposed impacts;
- **Remove;**

- **Remove - Retain Stump** – these trees are recommended for removal; however, are either located within a natural feature buffer, outside the development area but may be a hazard to the proposed pedestrian trail, or adjacent to a tree to be retained. Retention of the stumps will ensure that the root systems and trunks of the adjacent vegetation are not impacted and soil disturbance is minimized.

Table 1: Preliminary Retention and Removal Analysis

Proposed Action	Total
Remove	695
Remove – Retain Stump	5
Total Number of Trees to be Removed	700
Retain	174
Retain - Impact	3
Total Number of Trees to be Retained	177
Total Number of Trees Inventoried	877

If any part of the trunk of a tree is located on multiple properties, all owners of those properties must be consulted prior to any impacts to those trees. Twenty-eight trees proposed for removal are located along the property boundary or off-site (i.e. located partly or entirely on the City road right-of-ways). Written permission from the landowners to remove these trees will be required by the City of Guelph to approve this plan. NRSI is not aware of receipt of approval for these removals at this time, and our recommendation for removal should not be inferred to reflect any approval from any parties. Informed consent should also be acquired from the property owner prior to any root pruning or major canopy pruning.

5.0 Tree Compensation Plan

Section 4.1.6.1 of the City of Guelph Official Plan (2024) requires that “*a Vegetation Compensation Plan for replacement of trees shall be prepared and implemented to the satisfaction of the City in accordance with the City’s Tree Technical Manual*” [Section 11]. As per the Private Tree Protection by-law (2025) – 21059, the Vegetation Compensation Plan must “*clearly identify how the calculation for the appropriate Replacement Trees and/or Replacement Tree Fee, as applicable, have been calculated in accordance with the Tree Technical Manual*.”

For individual trees, the City of Guelph Tree Technical Manual (2025) uses the Ratio Method to determine compensation, whereby “*the total DBH of trees requiring compensation shall be replaced by one (1) Replacement Tree caliper tree for every 15cm of DBH of trees injured or removed*.” Where a tree had multiple stems, the measurement of the largest stem was used to determine the number of Replacement Trees required. Section 5.2 of the Private Tree Preservation by-law (2025) – 21059 exempts trees from requiring removal permits and compensation if they are:

- *Dead* [Section 5.2.a];
- *High Risk, as certified by an Arborist or a Forester* [Section 5.2.b];
- *A specimen of Rhamnus cathartica (Common buckthorn), Rhamnus frangula (European or Glossy buckthorn), Alnus glutinosa (Black alder), Elaeagnus umbellata (Autumn olive) or Morus alba (White mulberry)* [Section 5.2.f].

Trees proposed for removal that are dead, high risk (i.e. have a probable or imminent potential for structural failure, and/or are infected by a lethal pathogen, and/or are in very poor health), or invasive as identified above, are exempt pursuant to Section 5.2 of the City’s tree by-law and do not require compensation. Table 2 summarizes the total number of trees proposed for removal and the proposed compensation plan. The standard size of replacement trees is 60mm (6cm) caliper for deciduous trees and 250cm tall for coniferous trees, which are considered to be equivalent for the purposes of the Ratio Method. A complete list of inventoried trees, including a determination of whether trees require compensation, is provided in Appendix I.

Table 2: Vegetation Compensation Plan

Compensation Plan	Total
Total number of trees proposed for removal	700
Number of trees exempt from compensation (in poor health, dead, probable or imminent potential for structural failure, invasive) proposed for removal	228
Trees requiring compensation	472
Summed DBH (cm) of trees requiring compensation	12,035
Number of 6cm caliper Replacement Trees required*	802

*the Tree Technical Manual (2025) allows for the establishment of any combination of differently-sized Replacement Trees provided their combined total caliper achieves 4,812cm (800 Replacement Trees required x 6cm caliper Replacement Tree)

It is recommended that compensation requirements for the subject property are addressed through on-site restoration efforts. Detailed restoration and enhancement plans, along with updated compensation calculations, will be prepared during the Detailed Design phase of the project. As outlined in Section 6 of the EIS (NRSI 2025), woodland and wetland buffers are to be restored and planted with a diverse mix of native, non-invasive species appropriate to the local site conditions. These buffers should be established and maintained to support the development of self-sustaining native vegetative community. Where available planting space is limited, a cash-in-lieu fee should be paid to the City of Guelph.

Replacement plantings will consist of species native to the area (Wellington County/City of Guelph) or surrounding area where established adjacent to any natural areas, and will not include any species that are listed as invasive. The use of non-native species, that are more tolerant to urban conditions, such as drought, salt and compaction, may be suitable in planting areas within the urban landscape, where situated away from any natural areas and their buffers. The use of hardy species will ensure successful early establishment and minimize the potential for invasive species proliferation. The following will be considered during development of the compensation planting design:

- Use of native tree species, known from the area, that complement the surrounding natural features;
- Tree and shrub species to be situated in close proximity to roads and sidewalks should be salt and drought tolerant. Recommended street trees can be found in Schedule D of the Tree Technical Manual (2025);

- Include a diversity of trees from several genera to increase disease and pest tolerance and discourage monocultures (no more than 30% from a single genus, 10% from a single species);
- Deciduous trees are preferable, and coniferous trees shall not account for more than 25% of proposed trees;
- Include a watering and monitoring plan for 2 years following planting;
- Avoidance of Ash (*Fraxinus*) species due to high risk of Emerald Ash Borer (*Agrilus planipennis*);
- Plantings to be installed during appropriate planting season (early spring or fall);
- Plantings to be replaced if they die within the 2-year monitoring plan;
- Spacing of plant material should account for the mature size and height;
- Special attention should be paid to location and height of trees in proximity to any utilities, including proximity of tree root zones to subsurface utilities; and,
- Appropriate soil volumes should be accounted for, and load-bearing soil cells, or suitable alternatives, should be considered for increase survivorship and tree health.

6.0 Protection Measures and Recommended Mitigation

During the construction process, efforts will be made to protect the health and root systems of trees that have been assessed for retention in the plan that is based on the Detailed Design and detailed grading plans. The Client, or their designate (e.g. construction inspector or site manager), must ensure that all employees and contractors are informed of the meaning and importance of tree protection measures and the ways in which trees to be retained are identified.

6.1 Prior to Construction

Tree Protection Fencing (TPF) should be situated where trees are adjacent to the limit of disturbance/grading. A combined Erosion and Sediment Control (ESC) fence (i.e. silt fence) and TPF is recommended where trees (and retained natural areas) are situated adjacent to the limit of disturbance. TPF may take the form of 1200mm high paige-wire fencing secured to iron T-bar posts at 2400mm on centre, in accordance with the Tree Technical Manual (section 4.3 and Tree Protection Zone Fence Detail UF1.1). Signage, as per the City of Guelph Tree Protection Zone Information Signage (UF1.2), indicating the purpose of protection fencing will be attached to the paige-wire fencing every 20m. Recommended fencing locations are shown on Map 2a-2d; however, may be adjusted in the field to focus on areas where the TPF/ESC fence is adjacent to more vegetated areas and retained trees.

A phased approach to tree removals and fence installation is recommended for the subject property. Trees proposed for removal along the limit of the natural features should be marked by a Certified Arborist or RPF, as per this report. These removals should be completed under the supervision of a qualified tree professional to ensure no adjacent trees and/or their roots are injured. TPF/ESC fencing should then be installed along the limit of development immediately after these tree removals are complete and be inspected by a Certified Arborist, RPF or qualified other to ensure installed appropriately.

TPF/ESC fencing should be erected, secure, and complete with signage posted (as identified on Map 2a-2d) prior to the removal of any trees outside of the natural areas or their limits, or any demolition, construction, or other works. Written verification is to be submitted to the City that all of the recommended tree protection measures have been inspected and approved by a Certified Arborist, RPF or qualified other, and installed in accordance with the TIPP.

6.1.1 Timing Windows

Migratory Birds Convention Act

The removal of trees has the potential to disrupt nesting birds. The *Migratory Birds Convention Act* (MBCA) directs that all tree removals occur outside of the core nesting period for migratory birds as established by the Canadian Wildlife Service (CWS) (Government of Canada 1994, Government of Canada 2022b). This period extends from April 1 – August 31. All developers/consultants/contractors, etc. are legally obligated to carry out due diligence to protect migratory birds from harm during all construction projects. Despite this, certain circumstances may require tree and vegetation removals occur within the nesting period, such as those in which tree removals and construction is associated with the provision of public safety.

Bat Roosting Habitat

The destruction of Species at Risk (SAR) bats and their habitat is prohibited under the ESA, 2007. Since tree and shrub removal has the potential to directly impact candidate bat roosting habitat, it is recommended that this activity occur outside of the active roosting season (March 15 – November 30), to avoid direct impacts to individuals of the species and associated contravention of the Act. Candidate bat roosting trees are shown on Map 1 and Map 2a-2d. Further details regarding the presence of SAR bats and associated habitats can be found in NRSI's EIS (NRSI 2025).

6.2 During Construction

A Certified Arborist, Registered Professional Forester or qualified other is to be on-site during any preliminary excavation and vegetation removal adjacent to the TPF/ESC to ensure that trees identified for retention are not removed or damaged. It will be especially important for the qualified staff to be on-site during any removals that are adjacent to the trees identified to be retained and the protected natural features. The Certified Arborist, Registered Professional Forester or qualified other should be on-site to ensure that the TPF/ESC is functioning as intended and that tree and vegetation removal is in accordance with this TIPP and the timing windows described above. Inspection of the TPF/ESC and monitoring of critical stages of construction works should be conducted on a regular basis (i.e., bi-monthly or as indicated by the City of Guelph) or depending on frequency of works adjacent to fencing.

The recommended TPF/ESC is to be maintained by the Client or its agents during the entire construction period to ensure that trees being retained (including their root systems) are

protected. Minor construction damage (e.g., damage to limbs or roots) to trees to be retained must be pruned using proper arboricultural techniques. Root pruning, if necessary, should be completed by a qualified individual using an appropriate implement to make proper pruning cuts and encourage callous root growth following proper arboricultural techniques. Should any of the trees intended to be retained be seriously damaged or die as a result of construction activities, the Client staff should be consulted to determine a plan of action, such as treatment or compensation. Watering and pruning of newly planted trees and shrubs will be carried out by the owner/contractor as required during the warranty period (approximately 2 years).

Areas protected by TPF/ESC shall remain undisturbed and shall not be used for temporary storage, placement or excavation of fill or top soil, the storage of construction materials or equipment, or the storage of debris.

6.3 Post-Construction

It is recommended that the TPF/ESC be removed upon completion of construction activities and adjacent areas are stabilized with a suitable vegetative cover to the satisfaction of the Environmental Inspector or qualified biologist. Removal of TPF/ESC and revegetation will permit increased root development for the remaining trees. A Certified Arborist, Registered Professional Forester or qualified other, must inspect all retained trees and their rooting area, and recommend remediation work if conditions require it. A post-construction remediation plan may be required if damage to retained trees is noted. Following remediation activities, if needed, a final assessment should be done to ensure all protocols were met.

7.0 Summary

NRSI was retained by Fusion Homes to complete a TIPP for the GID Blocks 1 and 2, located in Guelph, Ontario.

NRSI Certified Arborists and Registered Professional Foresters conducted an inventory and assessment of trees with the potential to be impacted by the proposed development. Of the 877 trees inventoried, 700 trees will require removal based on the current draft plan concept (MHBC 2025). The tree removal analysis presented in this report is based on the current development footprint, and an updated TIPP will be required during the Detailed Design phase, along with a revised compensation plan. This update will also include a supplementary tree inventory of trees located to the north and south of the proposed SWMF2 area that were not captured during the initial inventories.

It is recommended that all proposed tree removals occur in consideration of general timing windows for migratory birds (April 1 through August 31) and the bat active season (March 15 – November 30) (i.e., no vegetation removal between March 15 and November 30). As such, it is recommended that tree removals are completed before March 14 or after December 1 to avoid potential contraventions of the ESA.

It is required that written permission from impacted adjacent landowners be sought out and granted in advance of any boundary tree injuries or removals. TPF/ESC fencing is to be installed prior to any on-site work, in order to provide adequate protection for retained trees and their root systems (as per Map 2a-2d). Prior to the installation of the TPF/ESC fencing, trees proposed for removal within and along the limit the natural features or buffers should be marked by a Certified Arborist or RPF and removed under the supervision of a qualified tree professional to ensure no adjacent trees and/or their roots are injured. TPF/ESC fencing should be installed along the limit of development immediately after these tree removals are complete and be inspected by a Certified Arborist, RPF or qualified other to ensure installed appropriately.

TPF/ESC fencing is to be installed prior to any construction work in order to provide adequate protection for retained trees and their root systems, and is to be monitored and maintained by the Developer or their agent throughout the construction phase of the project. All TPF is to conform to the specifications of the Tree Technical Manual (Section 4.3 and Tree Protection Zone Fence Detail UF1.1). Fencing is to be removed once construction is complete and exposed soils are stabilized.

An estimated 802 replacement trees will be required as compensation for these removals, in accordance with the City of Guelph Tree Technical Manual (2025) and City of Guelph Private Tree Protection By-law (2025) – 21059. Where available planting space is limited, a cash-in-lieu fee should be paid to the City of Guelph.

8.0 References

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Appendix I

Tree Inventory Data

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tre Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
1	White Ash	<i>Fraxinus americana</i>	Native	1	47					5.0	3.6	Possible	Poor	Subject Property	Remove	Development	No	Canopy is dead; sucker from trunk.
2	White Ash	<i>Fraxinus americana</i>	Native	1	50.50					3.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Sucker from trunk; few dead branches.
3	White Ash	<i>Fraxinus americana</i>	Native	1	57					3.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots; some dead branches.
4	White Ash	<i>Fraxinus americana</i>	Native	1	43.5					5.0	3.0	Possible	Poor	Subject Property	Remove	Development	No	Dead upper canopy; suckering from upper branches; pruned to accommodate power line.
5	White Ash	<i>Fraxinus americana</i>	Native	1	42					5.0	0	Possible	Dead	Subject Property	Remove	Development	No	Pealed bark; no live buds; evidence of EAB.
6	White Ash	<i>Fraxinus americana</i>	Native	1	34					5.0	3	Possible	Very Poor	Subject Property	Remove	Development	No	Dead canopy; peak peer; epicormic branching at base.
7	White Ash	<i>Fraxinus americana</i>	Native	1	48.5					4.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots; few dead branches.
8	White Ash	<i>Fraxinus americana</i>	Native	1	49					5.0	3	Possible	Fair	Subject Property	Remove	Development	Yes	Upper canopy has live buds but poor yearly growth; suckering from branches.
9	White Ash	<i>Fraxinus americana</i>	Native	1	39.5					3.0	3	Possible	Very Poor	Subject Property	Remove	Development	No	Some live buds; trunk bark peeling off completely; EAB evidence; epicormic and basal shoots.
10	Norway Maple	<i>Acer platanoides</i>	Non-native	1	37					6.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Moderately lean south; corrected for in canopy.
11	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16.5					5.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown due to crowding; few dead branches; tar spots on leaves.
12	Norway Maple	<i>Acer platanoides</i>	Non-native	1	30.5					5.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Healed branch tear off; canopy competition.
13	Norway Maple	<i>Acer platanoides</i>	Non-native	1	18					5.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown due to crowding; few dead branches; tar spots on leaves.
14	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown due to crowding; few dead branches; tar spots on leaves.
15	Norway Maple	<i>Acer platanoides</i>	Non-native	1	26					4.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Canopy competition.
16	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Suppressed canopy.
17	Norway Maple	<i>Acer platanoides</i>	Non-native	1	24					6.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Healed wound towards base of trunk; large wound/ burl at mid trunk showing dead wood; minimal leaves on branches.
18	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17.5					5.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Canopy competition; small buds; tension bark on canopy; tension bark on trunk.
19	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16.5					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Twisted trunk; epicormic shoots; crowded crown.
20	Norway Maple	<i>Acer platanoides</i>	Non-native	1	25					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Slight lean south; suppressed canopy.
21	Norway Maple	<i>Acer platanoides</i>	Non-native	1	12					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Suppressed crown; twisted trunk.
22	Norway Maple	<i>Acer platanoides</i>	Non-native	1	18.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Slight lean south; tension wood present.
23	Norway Maple	<i>Acer platanoides</i>	Non-native	1	43					11.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown due to suppression; few dead branches; tar spots on leaves.
24	Norway Maple	<i>Acer platanoides</i>	Non-native	1	23.5					5.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Corrected lean; compression wood present.
25	Norway Maple	<i>Acer platanoides</i>	Non-native	1	11					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Canopy competition.
26	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Slight lean south; suppressed canopy; tension wood present.
27	Norway Maple	<i>Acer platanoides</i>	Non-native	1	25.5					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Healed tear up trunk; few larger dead branches; epicormic shoots; tar spots on leaves.
28	Norway Maple	<i>Acer platanoides</i>	Non-native	1	14					2.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Slight lean south; tension wood present.
29	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Curved trunk leaning due to suppression; tar spots on leaves.
30	Norway Maple	<i>Acer platanoides</i>	Non-native	1	28.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
31	Norway Maple	<i>Acer platanoides</i>	Non-native	1	11.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots; small buds.
32	Norway Maple	<i>Acer platanoides</i>	Non-native	1	20.5					5.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Minor lean north; asymmetrical crown.
33	Norway Maple	<i>Acer platanoides</i>	Non-native	1	27					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Small crown due to suppression; slight asymmetrical crown; few epicormic shoots.
34	Norway Maple	<i>Acer platanoides</i>	Non-native	1	27					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Canopy competition.
35	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots along trunk; suppressed canopy.
36	Norway Maple	<i>Acer platanoides</i>	Non-native	1	14					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Small crown very leaning; burl up trunk.
37	Norway Maple	<i>Acer platanoides</i>	Non-native	1	40					6.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Overhanging branches on north.
38	Norway Maple	<i>Acer platanoides</i>	Non-native	1	43					10.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning toward laneway; crown completely asymmetrical; tar spots on leaves; few dead branches; epicormic shoots.
39	Norway Maple	<i>Acer platanoides</i>	Non-native	1	30.5					4.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Curved trunk growth; asymmetrical canopy.
40	Norway Maple	<i>Acer platanoides</i>	Non-native	1	22					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Main limbs intertwined with other tree branches; asymmetrical crown; tar spots on leaves.
41	Norway Maple	<i>Acer platanoides</i>	Non-native	1	13					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Healed open crack on lower trunk; over extended branches on north side.
42	Norway Maple	<i>Acer platanoides</i>	Non-native	1	32					6.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Lower branch dieback and tear off; asymmetrical canopy.
43	Norway Maple	<i>Acer platanoides</i>	Non-native	1	43					10.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown leaning towards laneway; branches overlapping with other trees.
44	Eastern White Cedar	<i>Acer platanoides</i>	Non-native	1	47					6.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Moderately interior branch dieback.
45	Eastern White Cedar	<i>Acer platanoides</i>	Non-native	2	37.5	10				6.0	3.0	Improbable	Poor	Subject Property	Remove	Development	No	Healed trunk crack 2cm up 1m in length; broken top.
46	Eastern White Cedar	<i>Acer platanoides</i>	Non-native	1	22.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Twisted trunk; asymmetrical crown.
47	Eastern White Cedar	<i>Acer platanoides</i>	Non-native	1	27					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Twisted trunk; asymmetrical crown; leaning.
48	Eastern White Cedar	<i>Acer platanoides</i>	Non-native	1	32					4.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Curved upper trunk; compression and tension bark.
49	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	24	22	15	13	16	3.5	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Slight asymmetrical canopy; multi stem.
50	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	20	16	13			4.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Protruding branches; poor attachment.
51	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	16					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Crowded by other trees; self pruning.
52	Norway Maple	<i>Acer platanoides</i>	Non-native	2	18.5	16				2.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Evidence of large leader failure; branches growing from failures doing well.
53	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	25					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Sweep trunk; healthy canopy.
54	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	16	10				3.0	1.8	Improbable	Poor	Subject Property	Remove	Development	No	Poor canopy structure; suppressed crown.
55	White Ash	<i>Fraxinus americana</i>	Native	1	48.5					4.0	3.0	Possible	Very Poor	Subject Property	Remove	Development	No	Still has live buds; large branch failures; peeling bark; EAB evidence.
56	Norway Maple	<i>Acer platanoides</i>	Non-native	1	35					4.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Corrected trunk lean.
57	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	5	23.5	18	18	14	14	3.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Some poor attachment of main stems on trunk; self pruning.
58	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	21.5	16				2.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Leaning trunk; leaning.
59	Norway Maple	<i>Acer platanoides</i>	Non-native	1	10.2					5.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning trunk; asymmetrical crown; few tar spots on leaves.
60	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning trunk; asymmetrical crown; few tar spots on leaves.
61	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	21					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning trunk; asymmetrical crown due to competition; some self pruning.
62	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	13	12	11			4.0	2.4	Improbable	Poor	Subject Property	Remove	Development	No	Poor attachment of stems; numerous dead branches; only one branch with live needles; leaning.
63	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	23	21				2.0	3.0	Improbable	Poor	Subject Property	Remove	Development	No	Poor canopy health.
64	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	23.5	21				2.0	3.0	Improbable	Poor	Subject Property	Remove	Development	No	Poor canopy health.
65	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	18					2.0	1.8	Improbable	Poor	Subject Property	Remove	Development	No	Heavy lean south; poor canopy health.
66	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	4	14.5	14	11	10		1.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Very suppressed crown.
67	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	4	21	14	13	13		3.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Correct canopy trunk sweeps; canopy suppressed.
68	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	16.5	10				1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Self pruning.
69	Manitoba Maple	<i>Acer negundo</i>	Native	4	36	30	26			10.0	6.12	Possible	Fair	Subject Property	Remove	Development	Yes	Poor attachment of main stems; all leaning aggressively toward laneway almost laying down; few dead branches.
70	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	4	23.5	19	19	19		3.0	4.2	Improbable	Good	Subject Property	Remove	Development	Yes	Included bark.
71	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	19.5	18	15			2.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Slight lean east.
72	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	16	14				2.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Dead leaning branches; self pruning.
73	Manitoba Maple	<i>Acer negundo</i>	Native	4	31.5	28	16	15		4.5	4.8	Improbable	Good	Subject Property	Remove	Development	Yes	Hard lean west.
74	Manitoba Maple	<i>Acer negundo</i>	Native	1	35					6.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Lean east.
75	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair crown structure.
76	Black Pine	<i>Pinus nigra</i>	Non-native	1	42					3.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Normal lower branch dieback.
77	Norway Maple	<i>Acer platanoides</i>	Non-native	1	14.5					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Slight lean; branch attachment.
78	Norway Maple																	

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tre Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
82	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Large trunk leaning on lower stem
83	White Ash	<i>Fraxinus americana</i>	Native	1	45					4.5	3.0	Possible	Poor	Subject Property	Remove	Development	No	Poor yearly growth/loose bark
85	White Ash	<i>Fraxinus americana</i>	Native	1	33.5					4.0	2.4	Probable	Very Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; dead branches.
86	White Ash	<i>Fraxinus americana</i>	Native	1	46.5					4.0	3.0	Probable	Fair	Subject Property	Remove	Development	Yes	Self pruning; poor yearly growth
87	White Ash	<i>Fraxinus americana</i>	Native	1	27					2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; dead branches.
88	White Ash	<i>Fraxinus americana</i>	Native	1	29.5					4.0	0	Possible	Dead	Subject Property	Remove	Development	No	Minimal bark left
89	White Ash	<i>Fraxinus americana</i>	Native	1	26					4.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; dead branches; live basal shoots.
90	Northern Catalpa	<i>Catalpa speciosa</i>	Non-native	3	13.5	11	11			3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.
91	Black Birch	<i>Betula nigra</i>	Native	1	32					4.5	2.4	Improbable	Good	Subject Property, Road ROW	Remove	Development	Yes	Landscape tree.
92	Norway Spruce	<i>Picea abies</i>	Non-native	1	48					5.5	3.0	Improbable	Good	Subject Property, Road ROW	Remove	Development	Yes	
93	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	24					3.0	1.8	Improbable	Fair	Subject Property, Road ROW	Remove	Development	Yes	Some self pruning; Fair crown structure.
94	Black Pine	<i>Pinus nigra</i>	Non-native	2	22	16				3.0	2.4	Improbable	Fair	Subject Property, Road ROW	Remove	Development	Yes	Some self pruning; slightly suppressed by other conifers.
95	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	26.5					2.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
96	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	24.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; healthy.
97	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	25					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Dead branches; Fair form.
98	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	30.5					4.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Multi-stem above DBH.
99	American Basswood	<i>Tilia americana</i>	Native	1	30					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form; numerous overlapping stems.
100	Balsam Fir	<i>Abies balsamea</i>	Native	1	25.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
101	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	27					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	
102	Balsam Fir	<i>Abies balsamea</i>	Native	1	25.5					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
103	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	2	18	14				3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Multi-stem at DBH.
104	Balsam Fir	<i>Abies balsamea</i>	Native	1	23.5					3.0	1.8	Improbable	Excellent	Subject Property	Remove	Development	Yes	Good form; healthy canopy.
105	American Basswood	<i>Tilia americana</i>	Native	2	41.5	12				3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Large trunk; poor branch attachment.
106	White Ash	<i>Fraxinus americana</i>	Native	1	19					2.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	Poor yearly growth; loose bark.
107	White Ash	<i>Fraxinus americana</i>	Native	4	24	17	10	13		3.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Few dead branches; good form.
108	Eastern White Pine	<i>Pinus strobus</i>	Native	1	17					2.0	1.8	Improbable	Excellent	Subject Property	Remove	Development	Yes	Good form; healthy vigor.
109	White Ash	<i>Fraxinus americana</i>	Native	2	13	12				2.5	1.8	Improbable	Poor	Subject Property	Remove	Development	No	
110	White Ash	<i>Fraxinus americana</i>	Native	1	16					2.5	0	Possible	Dead	Subject Property	Remove	Development	No	EAB.
111	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	20					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Self pruning; good form.
112	American Basswood	<i>Tilia americana</i>	Native	1	19					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; some lower branch tear offs.
113	Blue Spruce	<i>Picea pungens</i>	Non-native	1	22					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
114	Blue Spruce	<i>Picea pungens</i>	Non-native	1	36					3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; minor thinning.
115	Norway Spruce	<i>Picea abies</i>	Non-native	1	27.5					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Moderate lower branch dieback.
116	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	31.5					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Self thinning; self pruning; bough pruning under canopy.
117	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	24.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Solitary; dieback line in lower canopy.
118	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	19					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Self pruning; Fair form.
119	Eastern White Pine	<i>Pinus strobus</i>	Native	1	28.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	One over extended branch growing directly upwards.
120	Norway Spruce	<i>Picea abies</i>	Non-native	1	34.5					6.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Thinner lower crown; overall Fair form.
121	Norway Spruce	<i>Picea abies</i>	Non-native	1	42					5.5	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	
122	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17					3.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Suppressed canopy; hard lean west; broken branches from other trees in canopy.
123	Blue Spruce	<i>Picea pungens</i>	Non-native	1	29					3.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	
124	Norway Maple	<i>Acer platanoides</i>	Non-native	1	27					4.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical canopy; trunk space competition.
125	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	25					3.0	0	Possible	Dead	Subject Property	Remove	Development	No	Dead standing; no live crown; all dead branches.
126	Norway Maple	<i>Acer platanoides</i>	Non-native	1	30					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Healing crack up trunk; poor branch attachment.
127	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17.5					4.5	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Canopy suppressed by larger elm.
128	Black Pine	<i>Pinus nigra</i>	Non-native	1	16					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Poor branch attachment; numerous failed branches; dead lower canopy.
129	Norway Maple	<i>Acer platanoides</i>	Non-native	1	11					2.0	1.8	Improbable	Poor	Subject Property	Remove	Development	No	Crack up entire trunk; peeling bark; very little live crown; epicormic shoots.
130	Siberian Elm	<i>Ulmus pumila</i>	Non-native	2	39.5	20				3.0	0	Possible	Dead	Subject Property	Remove	Development	No	Tree canopy; one piece hanging on.
131	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	64					8.0	4.2	Possible	Fair	Subject Property	Remove	Development	No	Large branch failure; extremely poor branch attachment.
132	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	22					2.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	Large open trunk wound with insect holes.
133	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	37					3.0	2.4	Possible	Poor	Subject Property	Remove	Development	No	Large branch failure; very small crown due to crowding and dead branches.
134	Norway Maple	<i>Acer platanoides</i>	Non-native	2	16.5	15				4.5	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Suppressed canopy; included bark.
135	Norway Maple	<i>Acer platanoides</i>	Non-native	1	21.5					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical canopy; suppressed crown.
136	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	41					6.0	3.0	Possible	Fair	Subject Property	Remove	Development	Yes	Twisted trunk; leaning crown; large branch failures; numerous dead branches.
137	Norway Maple	<i>Acer platanoides</i>	Non-native	1	28					4.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Asymmetrical canopy.
138	Norway Maple	<i>Acer platanoides</i>	Non-native	1	28.5					5.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Traps on leaves; twisted trunk; epicormic shoots.
139	Norway Elm	<i>Ulmus pumila</i>	Non-native	2	24.5	21				3.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Crack up trunk; one dead leader.
140	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	33					3.5	2.4	Possible	Fair	Subject Property	Remove	Development	Yes	Brown in color; dead lower branches.
141	Norway Maple	<i>Acer platanoides</i>	Non-native	1	14.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Twisted trunk; numerous dead branches.
142	Norway Maple	<i>Acer platanoides</i>	Non-native	1	15.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Moderate lean south; asymmetrical canopy.
143	Norway Maple	<i>Acer platanoides</i>	Non-native	1	25					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning crown; suppressed.
144	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	18					0.5	0	Improbable	Dead	Subject Property	Remove	Development	No	No crown; peeling bark; wounds at base.
145	Siberian Elm	<i>Ulmus pumila</i>	Non-native	2	50	38				8.0	5.4	Possible	Poor	Subject Property	Remove	Development	No	Brown up trunks; evidence of major branch failures; small crowns.
146	Norway Maple	<i>Acer platanoides</i>	Non-native	1	16					3.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Lean north; suppressed canopy.
147	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	39					5.0	2.4	Possible	Fair	Subject Property	Remove	Development	Yes	Evidence of large branch failures; dead branches.
148	Norway Maple	<i>Acer platanoides</i>	Non-native	1	11					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Subjected canopy.
149	Norway Maple	<i>Acer platanoides</i>	Non-native	2	26	21				5.0	3.0	Possible	Poor	Subject Property	Remove	Development	No	Large dead branches; leaning crown.
150	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	20.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Evidence of large branch dieback; leaning crown.
151	Norway Maple	<i>Acer platanoides</i>	Non-native	1	13.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning trunk; poor attachment.
152	Norway Maple	<i>Acer platanoides</i>	Non-native	1	15.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Suppressed canopy.
153	Norway Maple	<i>Acer platanoides</i>	Non-native	1	10.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Suppressed canopy.
154	Norway Maple	<i>Acer platanoides</i>	Non-native	3	33	32	27			4.0	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Numerous dead branches; leaning crown.
155	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	27.5					0.5	0	Improbable	Dead	Subject Property	Remove	Development	No	No crown; peeling bark.
156	Siberian Elm	<i>Ulmus pumila</i>	Non-native	3	30.5	31	25			4.0	5.4	Possible	Fair	Subject Property	Remove	Development	Yes	Twisted limbs; leaning crown.
157	Siberian Elm	<i>Ulmus pumila</i>	Non-native	3	30.5	31	25			4.0	5.4	Possible	Fair	Subject Property	Remove	Development	Yes	Trunk rub; included bark.
158	Norway Maple	<i>Acer platanoides</i>	Non-native	1	20					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning crown; leaning trunk.
159	Norway Maple	<i>Acer platanoides</i>	Non-native	1	25					5.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Slight lean north; asymmetrical crown.
160	Norway Maple	<i>Acer platanoides</i>	Non-native	1	24					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Poor branch attachment; growing directly side larger elm.
161	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	49					7.0</								

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tre Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
174	Eastern White Pine	<i>Pinus strobus</i>	Native	1	30.5					5.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Numerous stems; good form.
175	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	12.5					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
176	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	32					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Minor dead branches above DBH.
177	Eastern White Pine	<i>Pinus strobus</i>	Native	1	38					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Over extended lower branches.
178	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	31					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Slight lean in trunk; few dead branches.
179	White Ash	<i>Fraxinus americana</i>	Native	1	33.5					4.0	2.4	Possible	Very Poor	Subject Property	Remove	Development	No	Poor yearly growth; loose bark; epicormic branches at base.
180	Norway Spruce	<i>Picea abies</i>	Non-native	2	31	29				5.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Some thinner parts of the canopy; overall good form.
181	European Larch	<i>Larix decidua</i>	Non-native	1	37					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Lots of cones.
182	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	5	6.5	14	12	13	10	2.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
183	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	14	13	11			1.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
184	Manitoba Maple	<i>Acer negundo</i>	Native	1	30.5					3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Light lean north.
185	Manitoba Maple	<i>Acer negundo</i>	Native	3	70	52	46			8.0	10.08	Improbable	Fair	Subject Property	Remove	Development	Yes	Evidence of recent large branch failures; one stem broken at mid trunk; epicormic shoots; poor attachment.
186	Manitoba Maple	<i>Acer negundo</i>	Native	1	14					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	One dead leader; poor canopy vigor.
187	Manitoba Maple	<i>Acer negundo</i>	Non-native	1	28					2.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Lean west; one dead leader; poor crown form.
188	Manitoba Maple	<i>Acer negundo</i>	Native	1	53.5					2.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Lean south; one dead leader; poor crown form.
189	Norway Maple	<i>Acer platanoides</i>	Non-native	1	23.5					5.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing into trunk of neighboring trees; tar spots on leaves; poor attachment.
190	White Spruce	<i>Picea glauca</i>	Native	1	22.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical canopy; fair vigor.
191	Manitoba Maple	<i>Acer negundo</i>	Native	1	51					11.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Lean west; asymmetrical crown; epicormic shoots.
192	Manitoba Maple	<i>Acer negundo</i>	Native	1	49.5					4.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Torsion in trunk; fungal fruiting bodies in canopy.
193	Manitoba Maple	<i>Acer negundo</i>	Native	2	38	29				12.0	4.2	Improbable	Fair	Subject Property	Remove	Development	Yes	Largest stem on ground; tree fallen but still growing; poor form; limbs all over the place but growing.
194	Manitoba Maple	<i>Acer negundo</i>	Native	1	50					4.0	3.0	Improbable	Very Poor	Subject Property	Remove	Development	No	Growing parallel to ground; uprooted trunk.
195	Red Maple	<i>Acer rubrum</i>	Native	3	13	12	11			6.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Numerous smaller stems; epicormic shoots.
196	Norway Spruce	<i>Picea abies</i>	Non-native	1	29.5					4.0	1.8	Improbable	Excellent	Subject Property	Remove	Development	Yes	Good form; healthy canopy; seedlings.
197	White Spruce	<i>Picea glauca</i>	Native	1	22					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form; Manitoba Maple growing at its side causing asymmetrical crown.
198	Eastern White Pine	<i>Pinus strobus</i>	Native	1	46					4.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Larger trunks suckering from lower stem; unusual form.
199	Hawthorn sp.	<i>Crataegus sp.</i>	Non-native	5	14	11	11	13	12	3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
200	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	25.5	24	23			4.0	4.8	Improbable	Good	Subject Property	Remove	Development	Yes	Lean west; inferior branches.
201	Black Walnut	<i>Juglans nigra</i>	Native	1	32.5					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
202	Eastern White Pine	<i>Pinus strobus</i>	Native	1	36					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Form impacted by wind throw; exposed hedgerow tree.
203	European Larch	<i>Larix decidua</i>	Non-native	1	37					3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
204	White Ash	<i>Fraxinus americana</i>	Native	1	33					4.0	2.4	Improbable	Poor	Subject Property	Remove	Development	Yes	Dead canopy; epicormic shoots.
205	White Spruce	<i>Picea glauca</i>	Native	1	27.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
206	Sugar Maple	<i>Acer saccharum</i>	Native	1	22					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Dense canopy.
207	White Spruce	<i>Picea glauca</i>	Native	1	29					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
208	Norway Spruce	<i>Picea abies</i>	Non-native	6	18	16	15	13	10	3.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Good vigor; fair trunk structure.
209	White Ash	<i>Fraxinus americana</i>	Native	1	24.5					3.0	0	Possible	Dead	Subject Property	Remove	Development	No	No live buds; peeled bark; EAB evidence.
210	White Ash	<i>Fraxinus americana</i>	Native	1	27.5					4.0	0	Possible	Dead	Subject Property	Remove	Development	No	EAB.
211	White Ash	<i>Fraxinus americana</i>	Native	1	28					3.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Stale lean; aggressive live basal sheets; no live canopy; peeling bark; signs of EAB.
212	White Ash	<i>Fraxinus americana</i>	Native	1	18.5					3.0	0	Possible	Dead	Subject Property	Remove	Development	No	EAB.
213	Sugar Maple	<i>Acer saccharum</i>	Native	1	29.5					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Some poor branch attachment; overall good form.
214	Sugar Maple	<i>Acer saccharum</i>	Native	1	32					3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; healthy vigor.
215	White Ash	<i>Fraxinus americana</i>	Native	1	22.5					3.0	0	Possible	Dead	Subject Property	Remove	Development	No	No live buds; evidence of EAB; peeled bark.
216	White Ash	<i>Fraxinus americana</i>	Native	1	31.5					3.5	2.4	Improbable	Fair	Subject Property	Remove	Development	No	Epicormic shoots at base.
217	White Ash	<i>Fraxinus americana</i>	Native	1	31.5					5.0	0	Possible	Dead	Subject Property	Remove	Hazard Mitigation	No	No live crown; evidence of EAB; peeling bark.
218	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	15	14	10			2.5	2.4	Improbable	Good	Subject Property	Retain	Growing adjacent to structure.		
219	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	20	14				1.0	2.4	Improbable	Fair	Subject Property	Retain			Wounds up entire side of stems; right against building; otherwise looks good.
220	Northern Red Oak	<i>Quercus rubra</i>	Native	1	42					5.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Cedar form.
221	Sugar Maple	<i>Acer saccharum</i>	Native	1	31.5					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
222	Northern Red Oak	<i>Quercus rubra</i>	Native	1	36.5					4.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
223	Northern Red Oak	<i>Quercus rubra</i>	Native	1	27.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; few dead branches.
224	Sugar Maple	<i>Acer saccharum</i>	Native	1	32.5					6.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
225	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	One lower branch over extended.
226	Sugar Maple	<i>Acer saccharum</i>	Native	1	51					5.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Dead leaders; peeling bark; evidence of ranch large branch failure.
227	Sugar Maple	<i>Acer saccharum</i>	Native	1	22					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Some poor branch attachment; overall good form.
228	White Ash	<i>Fraxinus americana</i>	Native	1	38					4.5	0	Possible	Dead	Subject Property	Remove	Development	No	EAB.
229	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	14	12				1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing against fence; full crown.
230	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	16.5					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Cedar hedge row.
231	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	12.5	12				1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Lean south; fence; full crown.
232	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	11	10				2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Cedar hedge row.
233	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	16.5	11				2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Cedar hedge row.
234	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	2	12.5	10				1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing against fence; full crown.
235	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	35					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Multi-stem over DBH.
236	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	19.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
237	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	2	12.5	12				3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Landscape tree.
238	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	3	28	18	16			4.0	4.2	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; few dead trees.
239	Ohio Buckeye	<i>Aesculus glabra</i>	Non-native	1	22.5					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Landscape tree.
240	Ohio Buckeye	<i>Aesculus glabra</i>	Non-native	1	22					3.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots.
241	Ohio Buckeye	<i>Aesculus glabra</i>	Non-native	1	29.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Some peeling bark at base; few dead branches; overall good form.
242	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	29.5					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Landscape tree.
243	American Basswood	<i>Tilia americana</i>	Native	10	20	15	15			3.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Coppiced growth with numerous stems; full crown with high vigor; one dead stem.
244	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	4	18	17	17			2.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
245	White Spruce	<i>Picea glauca</i>	Native	1	29					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; some minor thinning.
246	Sugar Maple	<i>Acer saccharum</i>	Native	1	31					5.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; evidence of pruning; epicormic growth.
247	Sugar Maple	<i>Acer saccharum</i>	Native	1	32.5					3.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Large full crown; good form.
248	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	21					1.5	1.8	Probable	Fair	Subject Property	Remove	Development	Yes	On live stem; EAB.
249	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	31.5					3.0	0	Probable	Dead	Subject Property	Remove	Development	Yes	Lean to the left; later cracks up; dead branches.
250	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	16					2.5	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	On epicormic shoots alive.
251	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12.5					3.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Main tree dead; peeling bark; evidence of EAB; failed branches; live basal shoots.
252	American Elm	<i>U</i>																

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Trees Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
257	Thornless Honey Locust	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Non-native	1	27					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Dense crown; good vigor.
258	Thornless Honey Locust	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Non-native	1	22.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Double leader; good form.
259	Thornless Honey Locust	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Non-native	1	25					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Dense crown; good vigor.
260	Thornless Honey Locust	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Non-native	1	19					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
261	Black Pine	<i>Pinus nigra</i>	Non-native	2	25	20				3.0	0	Possible	Dead	Subject Proprv	Remove	Development	No	Crown intact; recently dead.
262	Scots Pine	<i>Pinus sylvestris</i>	Non-native	1	30.5					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Some thinning; overall form.
263	Norway Spruce	<i>Picea abies</i>	Non-native	1	41					4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Full vigorous crown; short and wide stature.
264	Eastern White Pine	<i>Pinus strobus</i>	Native	1	24					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Slightly thinner crown but overall good form.
265	Manitoba Maple	<i>Acer negundo</i>	Native	3	22.5	15	18			3.5	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Dense large crown; high vigor.
266	Manitoba Maple	<i>Acer negundo</i>	Native	2	52	46				9.0	6	Probable	Fair	Subject Property	Remove	Development	No	Numerous large wounds on main branches; aggressive epicormic shades; numerous dead branches.
267	Manitoba Maple	<i>Acer negundo</i>	Native	2	27.5	12				5.0	2.4	Possible	Fair	Subject Property	Remove	Development	Yes	Larger stem with 45 degree lean north; basal wounds; high crown vigor.
268	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	21.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
269	Manitoba Maple	<i>Acer negundo</i>	Native	1	13.5					2.0	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots; high vigor.
270	Manitoba Maple	<i>Acer negundo</i>	Native	2	22	12				3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	No	Wounds up tree; possible wildlife feeding; surface roots.
271	Manitoba Maple	<i>Acer negundo</i>	Native	1	16					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	High vigor; slightly suppressed.
272	Eastern Cottonwood	<i>Populus deltoides</i>	Native	2	22.5	12				4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Few dead branches; Fair form.
273	American Basswood	<i>Tilia americana</i>	Native	1	15					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Pistol butt over dirt mound; smaller stem at 70 degree angle.
274	American Basswood	<i>Tilia americana</i>	Native	3	14.5	12	10			5.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing on dirt mound; overall Fair form.
275	American Basswood	<i>Tilia americana</i>	Native	1	11					2.0	1.8	Improbable	Poor	Subject Property	Remove	Development	No	Highly suppressed to north; crown asymmetrical; crown dieback.
276	Manitoba Maple	<i>Acer negundo</i>	Native	1	10.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing out of dirt mound; twisted trunk at base; numerous dead branches.
277	Manitoba Maple	<i>Acer negundo</i>	Native	1	17					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots throughout trunk; on edges of steep small mound.
278	American Basswood	<i>Tilia americana</i>	Native	3	14	11	11			3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing out of dirt mound; on stem has signs of pistol butt; otherwise good form.
279	American Basswood	<i>Tilia americana</i>	Native	4	13.5	11	10	10		4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Generally suppressed crown; weak upright attachment between stems.
280	American Basswood	<i>Tilia americana</i>	Native	1	10.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown due to crowding; slight pistol butt; good crown form.
281	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	18	17				2.0	2.4	Possible	Poor	Subject Property	Remove	Development	No	Crown dieback; EAB; extensive epicormic shoots.
282	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12.5					2.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Main stem dead; EAB; extensive epicormic shoots; trunk peeling bark.
283	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	On stem EAB; epicormic shoots; trunk wounds.
284	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12.5					3.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots.
285	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	15.5					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Crown dieback; EAB; epicormic shoots; trunk wounds.
286	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14.5					3.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Wounds up trunk; cankers; majority of crown dead.
287	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	Crown dieback; EAB; epicormic shoots; trunk wounds.
288	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12					1.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Wounds up trunk; cankers; majority of crown dead; peeling bark; evidence of EAB.
289	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	10.5					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	Crown dieback; EAB; epicormic shoots; trunk wounds.
290	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	13					2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots.
291	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	15.5					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
292	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	3	16	12	11			3.0	2.4	Probable	Very Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots.
293	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11					1.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
294	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots; main stem lost top.
295	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	3	15	11	15			1.5	2.4	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
296	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	15	15				2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots; main stem lost top.
297	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	14	12				2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
298	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	13	12				1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	On stem EAB; epicormic shoots; trunk wounds; one leader broken.
299	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	16					3.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots.
300	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					1.0	1.8	Probable	Fair	Subject Property	Remove	Development	Yes	Epicormic shoots; trunk wounds.
301	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
302	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11					1.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Main stem dead; peeling bark; evidence of EAB; live basal shoots.
303	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	15					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds; leader broken at 2m.
304	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	15					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
305	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14.5					4.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; aggressive basal shoots; minimal buds.
306	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14.5					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
307	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	13					1.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
308	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					2.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; aggressive basal shoots; minimal buds.
309	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	16.5	15				2.0	2.4	Possible	Very Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds; one leader broken.
310	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	17	13				3.0	2.4	Probable	Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; aggressive basal shoots; minimal buds.
311	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
312	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	3	20	16	12			2.0	3.0	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
313	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	3	29.5	18	19			6.0	4.2	Probable	Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; aggressive basal shoots; minimal buds; broken off leader.
314	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	25					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	On stem evidence of EAB; aggressive basal shoots; minimal buds.
315	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	21	15				5.0	2.4	Probable	Very Poor	Subject Property	Remove	Development	No	On stem evidence of EAB; aggressive basal shoots; minimal buds; broken off leaders.
316	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	11	10				3.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds; trunks leaning.
317	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	14.5	11				4.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; aggressive basal shoots; minimal buds; numerous dead branches.
318	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	15					1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds.
319	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	14	13				2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds; one leader broken.
320	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	21	13				4.0	2.4	Probable	Poor	Subject Property	Remove	Development	No	Peeling bark; evidence of EAB; aggressive basal shoots; minimal buds; numerous dead branches; one leader topped.
321	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	27.5	20				3.5	3.0	Possible	Poor	Subject Property	Remove	Development	No	EAB; epicormic shoots; trunk wounds; large crown.
322	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	10					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form; some dead branches.
323	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Friction cracks in trunk.
324	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	3	23	22	19			3.0	4.2	Improbable	Poor	Subject Property	Remove	Development	No	Peeling bark; majority of canopy dead; live basal shoots.
325	Eastern White Pine	<i>Pinus strobus</i>	Native	1	30					5.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
326	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	26.5	25				4.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Large full crown; dense conflicting branches.
327	Thornless Honey Locust	<i>Gleditsia triacanthos</i> var. <i>inermis</i>	Non-native	1	19.5					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; few dead branches.
328	Sugar Maple	<i>Acer saccharum</i>	Native	1	23					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
329	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good vigor; trunk wounds.
330	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Slight pistol butt at base; overall good form.
331	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	19	15				3.0	2.4	Possible	Poor	Subject Property	Remove	Development	No	Crown dieback; large trunk wound.
332	Norway Spruce	<i>Picea abies</i>	Non-native</															

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Trees Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
334	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	39					3.0	0	Probable	Dead	Subject Property	Remove	Development	No	No live crown; bark peeling completely off; all branches dead; evidence of EAB.
335	American Elm	<i>Ulmus americana</i>	Native	1	45.5					5.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Stems cavy at 1.5m; moderate response growth; crown asymmetrical; dying interior twigs.
336	Eastern White Pine	<i>Pinus strobus</i>	Native	1	32					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Needles slightly yellow; overall good form.
337	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	35.5					5.0	2.4	Improbable	Poor	Subject Property	Remove	Development	No	Minimal live crown; dead branches; evidence of EAB; peeling bark.
338	Sugar Maple	<i>Acer saccharum</i>	Native	1	30					2.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Healthy vigorous crown with ascending branches.
339	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	28.5					4.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Half of bark missing; most of crown intact; epicormic shoots; crown dieback.
340	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	4	15	12	13	13		4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; multiple leaders.
341	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	16					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Low branching tree, shrubby form; good vigor.
342	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	4	14.5	15	12	12		4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Few dead branches; overall good form
343	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	2	14	12				2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Low spreading branches; shrubby form; good vigor.
344	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	12.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Few dead branches; good form.
345	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	3	14.5	13	14			2.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Competition with buckthorn; low spreading crown; good vigor.
346	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	21					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
347	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	3	14	12	11			2.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Competing with buckthorn; shrubby form; good vigor.
348	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	3	18	14	15			4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Few dead branches; overall good form.
349	Manitoba Maple	<i>Acer negundo</i>	Native	8	29	34	19	16		6.0	5.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Coppiced growth; large spreading crown ; stems weakly attached at base; high vigor; growing through fence.
350	Manitoba Maple	<i>Acer negundo</i>	Native	3	11	11	10			2.5	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Coppiced growth; high vigor; 10+ multi-stems.
351	Willow sp.	<i>Salix sp.</i>	Native	4	44.5	16	12			5.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
352	Willow sp.	<i>Salix sp.</i>	Native	7	19.5	18	15			2.5	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	High vigor; copiced growth; numerous multi-stems.
353	Willow sp.	<i>Salix sp.</i>	Native	8	18.5	18	15			4.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Numerous stems; good form.
354	Willow sp.	<i>Salix sp.</i>	Native	4	25.5	21	25			3.5	4.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Multi stemmed at base; high vigor.
355	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	16.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Slight lean; poor branch attachment; asymmetrical crown.
356	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	19					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Leaning towards pond; willow branches up on it.
357	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	10					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Slight lean; Fair form.
358	Willow sp.	<i>Salix sp.</i>	Native	4	25	17	21			3.0	4.2	Improbable	Fair	Subject Property	Remove	Development	Yes	Multi-stem trunks with weak attachment; high crown vigor; epicormic shoots.
359	Willow sp.	<i>Salix sp.</i>	Native	3	19.5	16	17			3.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; some poor branch attachment.
360	Willow sp.	<i>Salix sp.</i>	Native	1	11					1.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
361	Willow sp.	<i>Salix sp.</i>	Native	1	11					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form; lower crown; ascending multi-stems.
362	Willow sp.	<i>Salix sp.</i>	Native	3	19.5	17	15			2.5	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	High vigor; ascending coddament stems with included bark.
363	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	10.2					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
364	Willow sp.	<i>Salix sp.</i>	Native	2	30	18				2.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Great vigor; erect form.
365	Willow sp.	<i>Salix sp.</i>	Native	11	24.5	25	18			7.0	4.2	Improbable	Good	Subject Property	Remove	Development	Yes	Numerous smaller stems; good form.
366	Manitoba Maple	<i>Acer negundo</i>	Native	1	24.5					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good crown vigor; full crown.
367	Willow sp.	<i>Salix sp.</i>	Native	2	11	17				2.5	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
368	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	29.5					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Full round vigorous crown; epicormic shoots.
369	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	28					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Evidence of pruning; good form.
370	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	28					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Epicormic shoots; full vigorous crown.
371	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	21					4.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Main stem dead; bark almost completely peeled off; large live basal shoots.
372	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	1	12					1.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Vigorous crown; growing along fence line.
373	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	20	13				4.0	2.4	Possible	Poor	Subject Property	Remove	Development	No	Majority of main stem dead; peeling bark; dead limbs; live large epicormic growth.
374	Common Apple	<i>Malus pumila</i>	Non-native	1	16					2.0	1.8	Improbable	Poor	Subject Property	Remove	Development	No	Lower trunk wounds; epicormic shoots; heavily curved trunk; growing through fence.
375	Common Apple	<i>Malus pumila</i>	Non-native	1	13					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Growing along fence; tangled crown branches.
376	Common Apple	<i>Malus pumila</i>	Non-native	1	16					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Growing within fence; lots of fruit on branches.
377	Common Apple	<i>Malus pumila</i>	Non-native	1	15.5					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Contorted leaders circling trunk; branches growing through fence.
378	Common Apple	<i>Malus pumila</i>	Non-native	1	10.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Poor branch attachment; stem guard still on trunk; abundance of apples; contorted limbs.
379	Common Apple	<i>Malus pumila</i>	Non-native	1	11					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Lower trunk; growing through fence; dead lower branches.
380	Common Apple	<i>Malus pumila</i>	Non-native	1	16					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Poor branch attachment; stem guard still on trunk; abundance of apples; contorted limbs.
381	Common Apple	<i>Malus pumila</i>	Non-native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Poor branch attachment; growing through fence; abundance of apples.
382	Common Apple	<i>Malus pumila</i>	Non-native	1	14					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Good vigor; fecund with fruit; growing along fence line; tree guards grown into base.
383	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	18.5					2.0	1.8	Improbable	Poor	Subject Property	Remove	Development	No	EAB wounds throughout trunk; epicormic shoots.
384	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good vigor; erect form.
385	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	39					4.0	2.4	Possible	Poor	Subject Property	Remove	Development	No	Main stem dead; no live branches; live basal shoots; peeling bark.
386	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	29	22				4.0	3.6	Improbable	Poor	Subject Property	Remove	Development	No	Loose bark; crown intact; coddament trunk with included bark; epicormic shoots.
387	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	13.5	12				3.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Majority of canopy dead; peeling bark; live epicormic shoots.
388	Common Apple	<i>Malus pumila</i>	Non-native	7	15	15	13			3.5	3.0	Improbable	Fair	Subject Property	Remove	Development	No	Low branching multi-stem; several stems dead; low vigor; weak attachments.
389	Common Apple	<i>Malus pumila</i>	Non-native	2	14.5	19				3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	No	Poor branch attachment; evidence of large branch failures.
390	Common Apple	<i>Malus pumila</i>	Non-native	2	27.5	15				2.5	3.0	Improbable	Fair	Subject Property	Remove	Development	No	Low vigor; small basal wounds; conflicting crown branches; long trunk stem.
391	Common Apple	<i>Malus pumila</i>	Non-native	5	17.5	15	12			6.0	3.0	Possible	Fair	Subject Property	Remove	Development	No	Recent failure of main leader; still producing fruit; fallen branches now growing upward to replace leaders; abundance of fruit.
392	Common Apple	<i>Malus pumila</i>	Non-native	3	29	23	14			2.5	4.2	Improbable	Fair	Subject Property	Remove	Development	No	Branch dieback; epicormic shoots; overly dense crown.
393	Common Apple	<i>Malus pumila</i>	Non-native	4	27.5	18	28	12		4.0	4.8	Possible	Fair	Subject Property	Remove	Development	No	Large holes in trunk; wildlife habitat; dead branches; poor branch attachment.
394	Common Apple	<i>Malus pumila</i>	Non-native	2	19	18				2.0	2.4	Probable	Very Poor	Subject Property	Remove	Development	No	Nearly dead; one living branch; trunks decaying; one nearly rotted out.
395	Common Apple	<i>Malus pumila</i>	Non-native	4	28.5	17	16			4.0	4.2	Possible	Fair	Subject Property	Remove	Development	No	Numerous fallen stems; many growing from ground; poor branch attachment.
396	Common Apple	<i>Malus pumila</i>	Non-native	2	29	24				3.5	3.6	Possible	Poor	Subject Property	Remove	Development	No	Crown dieback; trunks with missing and loose bark; old broken leader.
397	Common Apple	<i>Malus pumila</i>	Non-native	1	59					5.0	3.6	Possible	Poor	Subject Property	Remove	Development	No	Large wounds on trunk; grape within canopy; evidence of large main branch failures; completely hollow trunk but producing fruit; wildlife tree.
398	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	11	10				1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Codominant leaders with weak attachment; short twigs; healthy buds.
399	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12					2.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Live epicormic shoots; peeling bark; evidence of EAB.
400	Common Apple	<i>Malus pumila</i>	Non-native	2	29.9	25				3.0	3.6	Possible	Fair	Subject Property	Remove	Development	No	Wildlife holes; numerous dead branches; fruiting; poor branch attachment.

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Trees Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
401	Common Apple	<i>Malus pumila</i>	Non-native	3	21.5	11	10			3.0	3.0	Possible	Poor	Subject Property	Remove	Development	No	Advanced crown dieback; basal decay; cavity in leader; epicormic shoots
402	Common Apple	<i>Malus pumila</i>	Non-native	3	30	20	30			4.0	4.8	Possible	Fair	Subject Property	Remove	Development	No	Numerous dead branches; poor attachment; evidence of branch failures.
403	Manitoba Maple	<i>Acer negundo</i>	Native	3	29.5	15	11			5.5	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Prostrate stems; leaning trunks; partially suppressed crown.
404	Manitoba Maple	<i>Acer negundo</i>	Native	2	42	29				5.0	4.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Slight lean; numerous dead branches.
405	Common Apple	<i>Malus pumila</i>	Non-native	1	27.5					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Basal and trunk decay; main crown lost; one living branch remaining.
406	Common Apple	<i>Malus pumila</i>	Non-native	1	36					4.0	2.4	Probable	Poor	Subject Property	Remove	Development	No	Majority of canopy dead; large leader broken off leaving large rotted wound; numerous dead branches.
407	Common Apple	<i>Malus pumila</i>	Non-native	2	12.5	11				3.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Advanced crown dieback; largest trunk long dead.
408	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	13					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Wound towards base of trunk; good form otherwise.
409	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	10					1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Healed wound; double leader.
410	Common Apple	<i>Malus pumila</i>	Non-native	2	17.5	14				2.5	2.4	Possible	Poor	Subject Property	Remove	Development	No	Advanced crown dieback; trunk decay; epicormic shoots
411	Common Apple	<i>Malus pumila</i>	Non-native	3	27.5	16	20			5.0	4.2	Possible	Fair	Subject Property	Remove	Development	No	Numerous dead branches; evidence of main large branch failure; wounds on main leaders.
412	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					1.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Healthy buds throughout crown; good form.
413	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	28					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Full canopy of buds; bark starting to pe; few dead branches.
414	Common Apple	<i>Malus pumila</i>	Non-native	3	33.5	24	33			3.0	5.4	Possible	Poor	Subject Property	Remove	Development	No	Advanced crown dieback; trunk cavities; tangled branches.
415	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	26.5					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Minimal live branches; still producing epicormic shoots.
416	Common Apple	<i>Malus pumila</i>	Non-native	2	25	14				5.0	2.4	Possible	Poor	Subject Property	Remove	Development	No	Minimal live branches; still producing epicormic shoots.
417	Common Apple	<i>Malus pumila</i>	Non-native	3	21	21	10			3.5	3.6	Possible	Poor	Subject Property	Remove	Development	No	Conflicting branches; advanced crown dieback; hanger caught against trunk; broken leader; trunk decay.
418	Common Apple	<i>Malus pumila</i>	Non-native	3	29	18	19			4.0	4.2	Probable	Fair	Subject Property	Remove	Development	No	Majority of branches have large wounds or evidence of rot; large rot wound on trunk; numerous dead branches.
419	Common Apple	<i>Malus pumila</i>	Non-native	3	24.5	23	14			3.0	4.2	Possible	Poor	Subject Property	Remove	Development	No	Trunk dead; broken leaders; advanced crown dieback.
420	Common Apple	<i>Malus pumila</i>	Non-native	2	36	29				3.0	4.2	Probable	Fair	Subject Property	Remove	Development	No	Large portion of tree failed and growing on ground; numerous dead branches.
421	Common Apple	<i>Malus pumila</i>	Non-native	1	17.5					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Twisted trunk with basal decay; crown asymmetrical; crown back.
422	Common Apple	<i>Malus pumila</i>	Non-native	3	32	26	31			5.0	5.4	Improbable	Very Poor	Subject Property	Remove	Development	No	Broken at base; stems prostrate on ground; advanced stage of basal decay; epicormic shoots.
423	Common Apple	<i>Malus pumila</i>	Non-native	4	23	10	11	14		5.0	3.0	Probable	Poor	Subject Property	Remove	Development	No	Majority of branches dead; peeled off bark; hollow areas of trunk.
424	Common Apple	<i>Malus pumila</i>	Non-native	3	25	19	21			2.5	4.2	Possible	Poor	Subject Property	Remove	Development	No	One main leader forking at 1m; stems with cavities; twig dieback; tangled crown branches.
425	Common Apple	<i>Malus pumila</i>	Non-native	3	25.5	24	24			5.0	4.8	Possible	Fair	Subject Property	Remove	Development	No	Numerous dead branches; evidence of branch failures; overall fair structure.
426	White Ash	<i>Fraxinus americana</i>	Native	1	33					4.0	2.4	Probable	Very Poor	Subject Property	Remove	Development	No	Peeled off bark; most branches have no buds/dead.
427	Paper Birch	<i>Betula papyrifera</i>	Native	1	20					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Broken top; weeping form; sweep in lower trunk.
428	Hawthorn sp.	<i>Crataegus sp.</i>	Non-native	3	18	12	11			2.5	3.0	Possible	Fair	Subject Property	Remove	Development	No	Evidence of pruning; few dead branches.
429	Hawthorn sp.	<i>Crataegus sp.</i>	Non-native	4	19	19	13	15		3.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Ful vigorous crown; minor interior deadwood.
430	Hawthorn sp.	<i>Crataegus sp.</i>	Non-native	3	18.5	19	17			3.0	3.6	Possible	Fair	Subject Property	Remove	Development	Yes	Fair form; epicormic shoots; full crown.
431	American Basswood	<i>Tilia americana</i>	Native	1	18					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous epicormic shoots; full crown.
432	Norway Spruce	<i>Picea abies</i>	Native	1	26					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Thin canopy; few dead branches.
433	Blue Spruce	<i>Picea pungens</i>	Non-native	1	42					3.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Relatively short wide crown; minor twig dieback.
434	Eastern White Pine	<i>Pinus strobus</i>	Native	2	21	12				3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Loss of secondary leader causing numerous shoots.
435	American Basswood	<i>Tilia americana</i>	Native	1	45					3.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Fair form; erect form; epicormic shoots.
436	Norway Spruce	<i>Picea abies</i>	Native	1	14					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; epicormic shoots.
437	Norway Spruce	<i>Picea abies</i>	Native	1	50					3.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Ful vigorous crown; good form.
438	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	3	10.5	12	13			4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Numerous smaller stems; few dead stems; fair form.
439	Norway Spruce	<i>Picea abies</i>	Native	1	55					4.5	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
440	White Spruce	<i>Picea glauca</i>	Native	1	30					3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Ful vigorous crown; good form.
441	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	6	14	15	15	14	16	6.0	3.0	Improbable	Fair	Subject Property	Remove	Development	No	Basal shoots; peeling bark on stems; evidence of pruning; few leaning leaders.
442	European Larch	<i>Larix decidua</i>	Non-native	1	41.5					3.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Large full crown; EAB exit holes.
443	European Larch	<i>Larix decidua</i>	Non-native	1	45					4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Ful vigorous crown; good form.
444	Blue Spruce	<i>Picea pungens</i>	Non-native	1	32					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Growing on lean; thinner canopy.
445	Northern Red Oak	<i>Quercus rubra</i>	Native	1	25.5					2.5	0	Possible	Dead	Subject Property	Remove	Development	No	Most twigs lost.
446	Sur Oak	<i>Quercus macrocarpa</i>	Native	1	19					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Excessive pruning; mechanical damage to base of trunk.
447	Northern Red Oak	<i>Quercus rubra</i>	Native	1	24					2.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Ful vigorous upper crown; minor epicormic shoots and lower crown deadwood.
448	European Larch	<i>Larix decidua</i>	Non-native	1	31.5					5.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Evidence of pruning; good form.
449	Blue Spruce	<i>Picea pungens</i>	Non-native	1	45					3.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Ful vigorous crown; excellent form.
450	European Larch	<i>Larix decidua</i>	Non-native	1	16					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Slender twist in trunk; fair crown form.
451	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	21	18	19			2.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Healthy canopy.
452	American Elm	<i>Ulmus americana</i>	Native	1	68.5					5.0	4.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Some poor attachment of multiple leaders; numerous epicormic shoots.
453	Maiden-hair Tree	<i>Ginkgo biloba</i>	Non-native	1	25					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Vigorous crown; erect form.
454	Black Pine	<i>Pinus nigra</i>	Non-native	1	23.5					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Most dead lower crown; thin crown.
455	Big Leaf Maple	<i>Acer macrocarpa</i>	Native	1	32					3.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Ful vigorous crown; pruned lower lateral branches well-callused.
456	White Spruce	<i>Picea glauca</i>	Native	1	48					4.0	3.0	Improbable	Excellent	Subject Property	Remove	Development	Yes	Great form.
457	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	4	13.5	15	16	14		2.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
458	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	3	18	17	17			2.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Healthy crown.
459	Eastern White Cedar	<i>Thuja occidentalis</i>	Native	6	21.5	15	19	14	13	2.5	3.6	Improbable	Fair	Subject Property	Remove	Development	No	Fair form; numerous stems.
460	Eastern White Pine	<i>Pinus strobus</i>	Native	1	28					3.0	0	Possible	Dead	Subject Property	Remove	Development	No	Thin stem; no branches.
461	Ohio Buckeye	<i>Aesculus glabra</i>	Native	4	15	12	10	12		3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Numerous leaders; large healing wound at base.
462	Scots Pine	<i>Pinus sylvestris</i>	Native	1	22					2.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Upper crown full; healthy foliage.
463	Norway Spruce	<i>Picea abies</i>	Native	1	24					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Thinner canopy in middle.
464	Norway Spruce	<i>Picea abies</i>	Native	1	15					2.5	1.8	Improbable	Excellent	Subject Property	Remove	Development	Yes	Excellent vigor and form.
465	Sweet Cherry	<i>Prunus avium</i>	Non-native	2	11.5	12				1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Morphed leaders below B; some healed damage at base; poor attachment.
466	Sweet Cherry	<i>Prunus avium</i>	Non-native	1	17					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Conflicting, partially fused stems; good vigor.
467	Sweet Cherry	<i>Prunus avium</i>	Non-native	1	15					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Poor attachment; numerous leaders.
468	Sweet Cherry	<i>Prunus avium</i>	Non-native	2	13	14				2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Conflicting, partially fused stems; good vigor.
469	Sweet Cherry	<i>Prunus avium</i>	Non-native	2	14	11				2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Poor attachment; numerous smaller stems; epicormic shoots.
470	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	4	23.5	35	15	11		4.0	4.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.
471	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	49					4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches.
472	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	2	41.5	10				5.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Large main stem good form; numerous smaller stems growing from base on angle.
473	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	41					3.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachment. Dbh measured below branch unions.
474	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	40.5					4.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Conflicting form.
475	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	43					4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachment. Dbh measured below branch unions.
476	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	32.5					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
477	Little-leaf Linden	<i>Tilia cordata</i>																

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tree Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
480	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	40					6.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
481	Black Walnut	<i>Juglans nigra</i>	Native	1	15					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good vigor; crown slightly asymmetrical due to adjacent walnut.
482	Black Walnut	<i>Juglans nigra</i>	Native	1	17.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good attachment; clustered, dense crown.
483	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	49					4.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachments. Dbh measured below branch unions.
484	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	42					5.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
485	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	3	42.5	12	12			4.5	4.2	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachments; extensive basal shoots. Dbh measured below branch unions.
486	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	42.5					6.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
487	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	43.5					4.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachments. Dbh measured below branch unions.
488	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	44.5					5.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
489	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	37.5					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachments. Dbh measured below branch unions.
490	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	38					6.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
491	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	36.5					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachments. Dbh measured below branch unions.
492	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	35					5.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
493	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	41					4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Large full vigorous crown; densely packed branches; leaders with weak attachments. Dbh measured below branch unions.
494	Little-leaf Linden	<i>Tilia cordata</i>	Non-native	1	35					5.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
495	White Ash	<i>Fraxinus americana</i>	Native	1	57					4.0	3.6	Probable	Very Poor	Subject Property	Remove	Development	No	EAB: one third of bark lost; crown dieback; trunk decay.
496	Common Apple	<i>Malus pumila</i>	Non-native	2	24.5	25				3.0	3.0	Probable	Poor	Subject Property	Remove	Development	No	Decaying leaders; epicormic shoots; broken branches; small hangers.
497	Common Apple	<i>Malus pumila</i>	Non-native	3	26.5	21	28			4.0	4.8	Probable	Poor	Subject Property	Remove	Development	No	Decaying branches; some peeling bark; poor attachment; few dead branches.
498	Common Apple	<i>Malus pumila</i>	Non-native	1	28.5					2.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Half of trunk decayed; old decaying leaders.
499	Common Apple	<i>Malus pumila</i>	Non-native	1	32					3.0	2.4	Probable	Poor	Subject Property	Remove	Development	No	Decaying branches; some peeling bark; poor attachment; large secondary stem failure.
500	Common Apple	<i>Malus pumila</i>	Non-native	2	30	18				3.0	3.0	Probable	Very Poor	Subject Property	Remove	Development	No	Main stems dead; epicormic growth.
501	Common Apple	<i>Malus pumila</i>	Non-native	1	10.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Decaying stems adjacent to base; crown dieback.
502	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	13					1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Basal shoots; bark started to peel but minimal.
503	Common Apple	<i>Malus pumila</i>	Non-native	2	21.5	14				2.5	2.4	Improbable	Fair	Subject Property	Remove	Development	No	Stems fused and decaying at base; dead leader; crown dieback.
504	Common Apple	<i>Malus pumila</i>	Non-native	1	41.5					2.0	3.0	Probable	Very Poor	Subject Property	Remove	Development	No	Main stems dead and decaying; live epicormic shoots.
505	Common Apple	<i>Malus pumila</i>	Non-native	5	15.5	20	19	16		4.0	3.6	Improbable	Fair	Subject Property	Remove	Development	No	Cross branch rubbing; large spreading crown; one dead leader.
506	Common Apple	<i>Malus pumila</i>	Non-native	2	12	10				5.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Decaying limbs; numerous fallen branches; peeling bark.
507	Common Apple	<i>Malus pumila</i>	Non-native	2	39.5	19				3.5	3.6	Possible	Poor	Subject Property	Remove	Development	No	Main trunk hollow; main leaders dead and broken; epicormic shoots; basal stems alive.
508	Common Apple	<i>Malus pumila</i>	Non-native	3	20	14	13	10		3.0	3.0	Probable	Very Poor	Subject Property	Remove	Development	No	Decaying limbs; numerous large branch failures; peeling bark.
509	Common Apple	<i>Malus pumila</i>	Non-native	5	26	29	13	19	13	4.0	4.2	Possible	Poor	Subject Property	Remove	Development	No	Main trunk with deep indent; broken leader leaving large decay area; dead leader; crown dieback.
510	Manitoba Maple	<i>Acer negundo</i>	Native	4	32	26	19	22		7.0	4.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Few dead branches; fair form.
511	Common Apple	<i>Malus pumila</i>	Non-native	2	47	27				4.0	4.8	Probable	Poor	Subject Property	Remove	Development	No	Trunk and leader decay throughout; epicormic shoots; 50% crown dieback.
512	Common Apple	<i>Malus pumila</i>	Non-native	1	27					2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Hollow trunk; decaying limbs; large branch failure.
513	Common Apple	<i>Malus pumila</i>	Non-native	1	25.5					6.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Basal shrubs; stem of old fallen leader.
514	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	45.5	21				3.0	4.2	Possible	Poor	Subject Property	Remove	Development	No	Decaying throughout length; 60% crown dieback; decaying stumps.
515	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Bark near base; overall good form.
516	Common Apple	<i>Malus pumila</i>	Non-native	1	20.5					6.0	1.8	Improbable	Very Poor	Subject Property	Remove	Development	No	Decayed stump with broken off stump; live epicormic shoots.
517	Common Apple	<i>Malus pumila</i>	Non-native	3	34	18	22			2.5	4.8	Probable	Poor	Subject Property	Remove	Development	No	75% crown dieback; broken and dead leaders; trunk decay.
518	Common Apple	<i>Malus pumila</i>	Non-native	2	31.5	23				4.0	3.6	Probable	Very Poor	Subject Property	Remove	Development	No	No bark; decaying trunk and main branches; live epicormic shoots; dead leaders.
519	Common Apple	<i>Malus pumila</i>	Non-native	1	22					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	No	Crown decayed; stem of receding shoots; lacking strong leader or lateral branch; dead leaders.
520	Common Apple	<i>Malus pumila</i>	Non-native	1	39.5					6.0	2.4	Probable	Poor	Subject Property	Remove	Development	No	Decaying and rotted limbs; hollow trunk.
521	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Good form.
522	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	14.5					1.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; good woor.
523	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	2	15.5	13				2.0	1.8	Probable	Poor	Subject Property	Remove	Development	No	All leaders broken off; heavy grapevine burden; EAB; 90% crown dieback.
524	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.
525	Common Apple	<i>Malus pumila</i>	Non-native	7	17.5	17	16	15	12	3.0	3.0	Probable	Fair	Subject Property	Remove	Development	No	One trunk with extensive decay; crown partially suppressed; conflicting crown branches.
526	Black Walnut	<i>Juglans nigra</i>	Native	1	11					1.0	1.8	Possible	Poor	Road ROW	Remove	Road Access	No	Large necrotic canker; little remaining live tissue.
527	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	10					1.5	1.8	Improbable	Fair	Road ROW	Remove	Road Access	Yes	Minor crown dieback; Riverbank Grape throughout lower scaffold; growing underneath power lines.
528	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	12.5					2.0	1.8	Improbable	Fair	Road ROW	Retain			Asymmetrical crown due to competition with adjacent tree; minor dieback.
529	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	11					1.5	1.8	Improbable	Good	Road ROW	Retain			Slight lean; under hydro.
530	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	13.9					1.0	1.8	Possible	Poor	Road ROW	Retain			Previously failed and growing on 45 degree angle; decay along stem; crown dieback.
531	Siberian Elm	<i>Ulmus pumila</i>	Native	1	12.5					1.5	1.8	Improbable	Fair	Road ROW	Retain			Epicormic growth; twin dieback.
532	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	10.5					1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Poor crown structure; twin dieback.
533	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	10.5					1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Poor crown structure; twin dieback.
534	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	2	11.1					1.5	1.8	Improbable	Good	Subject Property	Retain	Development	Yes	Weakly branched; vigorous crown; growing close to power lines.
535	Manitoba Maple	<i>Acer negundo</i>	Native	2	15.6	12				2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Relatively vigorous crown; some dieback in lower scaffold; epicormic growth.
536	Eastern Cottonwood	<i>Populus deltoides</i>	Native	2	21	21				2.5	3.0	Improbable	Good	Road ROW	Retain			Twigs dieback; growing under power lines.
537	Siberian Elm	<i>Ulmus pumila</i>	Native	2	15.6	14				2.5	1.8	Improbable	Good	Road ROW	Retain			Relatively full; vigorous crown; lower scaffold dieback only.
538	Manitoba Maple	<i>Acer negundo</i>	Native	3	21.5	20	14			3.0	3.6	Possible	Fair	Subject Property	Remove	Development	Yes	Decay at branch unions; twig dieback; poor crown structure.
539	Siberian Elm	<i>Ulmus pumila</i>	Native	2	17.7	16				3.0	2.4	Improbable	Good	Road ROW	Retain			Full; vigorous crown; growing close to telephone lines.
540	Siberian Elm	<i>Ulmus pumila</i>	Native	4	24	16	17	14		3.0	3.6	Possible	Fair	Subject Property	Remove	Development	Yes	Multiple stems; poor crown structure; twig and branch dieback.
541	Manitoba Maple	<i>Acer negundo</i>	Native	2	13.2	12				2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Almost dead; loose bark; galleries; epicormic growth; EAB exit holes.
542	White Ash	<i>Fraxinus americana</i>	Native	2	11					1.0	1.8	Possible	Fair	Subject Property, Road ROW	Remove	Development	No	EAB; crown primarily alive; twig dieback.
543	White Ash	<i>Fraxinus americana</i>	Native	1	25					2.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	EAB; twig and branch dieback; peeling bark.
544	White Ash	<i>Fraxinus americana</i>	Native	2	12.3	12				1.5	1.8	Possible	Poor	Subject Property	Remove	Development	No	Galleries; epicormic growth; loose bark.
545	White Ash	<i>Fraxinus americana</i>	Native	1	16					1.5	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	EAB; epicormic growth; two and branch dieback.
546	White Ash	<i>Fraxinus americana</i>	Native	2	11.8	12				1.0	1.8	Possible	Poor	Subject Property, Road ROW	Remove	Development	No	Crown dieback; epicormic growth; Riverbank grape throughout; galleries.
547	White Ash	<i>Fraxinus americana</i>	Native	1	11					1.0	1.8	Possible	Fair	Subject Property, Road ROW	Remove	Development	Yes	EAB; crown primarily alive; twig dieback.
548	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	43					4.0	3.0	Improbable	Fair	Road ROW	Retain - Impact			Forked above Bt; poor crown structure but healthy; one failed branch.
549	White Ash	<i>Fraxinus americana</i>	Native	1	18.5					1.5	1.8	Possible	Poor	Subject Property, Road ROW	Remove	Development	No	Crown dieback; galleries; epicormic growth; asymmetrical crown due to competition with adjacent tree.
550	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	29					3.0	1.8	Improbable	Fair	Road ROW	Retain			Epicormic growth; twig and branch dieback.
551	White Ash	<i>Fraxinus americana</i>	Native	1	11.5					2.0	1.8	Possible	Poor	Subject Property, Road ROW	Remove	Development	No	Galleries; crown dieback; EAB exit holes.
552	White Ash	<i>Fraxinus americana</i>	Native	1	13.2					1.0	1.8	Possible	Poor	Subject Property, Road ROW	Remove	Development	No	Galleries; epicormic growth; crown dieback.
553	White Ash	<i>Fraxinus americana</i>	Native	1	11					1.0	1.8	Possible	Very Poor	Subject Property, Road ROW	Remove	Development	No	EAB; epicormic growth; primarily dead.
554	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	17.8					3.0	1.8	Improbable	Fair	Road ROW	Retain			Pruning graphic growth in upper stem; unbalanced crown; minor bark cracks.
555	White Ash	<i>Fraxinus americana</i>	Native	1	12.5				</td									

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tre Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments	
556	White Ash	<i>Fraxinus americana</i>	Native	1	12.5					1.0	1.8	Possible	Very Poor	Subject Property, Road ROW	Remove	Development	No	EAB: branch dieback; epicormic growth; primarily dead.	
557	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	19.5					3.0	1.8	Improbable	Fair	Subject Property, Road ROW	Retain				Epicormic growth; unbalanced crown; bark cracks; crown still relatively healthy.
558	White Ash	<i>Fraxinus americana</i>	Native	3	15	15	14			2.0	3.0	Possible	Very Poor	Subject Property, Road ROW	Remove	Development	No	EAB: branch dieback; epicormic growth; primarily dead.	
559	White Ash	<i>Fraxinus americana</i>	Native	1	10.5					1.0	1.8	Possible	Very Poor	Subject Property, Road ROW	Remove	Development	No	EAB: branch dieback; epicormic growth; primarily dead.	
560	White Ash	<i>Fraxinus americana</i>	Native	1	10.1					1.0	1.8	Possible	Poor	Subject Property, Road ROW	Remove	Development	No	Galleries; epicormic growth; crown dieback; EAB exit holes.	
561	White Ash	<i>Fraxinus americana</i>	Native	2	19.5	11				2.0	2.4	Possible	Very Poor	Subject Property, Road ROW	Remove	Development	No	EAB: branch dieback; epicormic growth; primarily dead.	
562	Freeman's Maple	<i>Acer x freemanii</i>	Native	5	29.4	17	15	14	12	4.0	4.2	Improbable	Good	Subject Property, Road ROW	Remove	Development	Yes	Bark cracks on main stem; full, vigorous crown.	
563	Freeman's Maple	<i>Acer x freemanii</i>	Native	2	32	18				3.0	3.0	Improbable	Good	Subject Property, Road ROW	Remove	Development	Yes	Some branch dieback; poor crown structure.	
564	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	42.5					4.0	3.0	Improbable	Good	Subject Property, Road ROW	Remove	Development	Yes	Some branch dieback; bark peeling; epicormic growth.	
565	White Ash	<i>Fraxinus americana</i>	Native	3	26	18	14			3.0	3.6	Possible	Poor	Subject Property	Remove	Development	No	Loose bark; galleries; crown dieback; epicormic growth.	
566	White Ash	<i>Fraxinus americana</i>	Native	6	14	14	13	12	12	3.0	3.0	Possible	Poor	Subject Property	Remove	Development	Yes	Poor crown structure; epicormic growth; twig dieback.	
567	Manitoba Maple	<i>Acer negundo</i>	Native	2	29	21				3.0	3.0	Possible	Fair	Subject Property	Remove	Development	Yes	Previously fallen branches but otherwise healthy crown; twig dieback.	
568	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	40.5					4.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Previously healthy crown; full, vigorous crown.	
569	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	38.2					4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Epicormic growth at root flare; included bark in scaffold unions; full, vigorous crown.	
570	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	43					4.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Basal shoots; epicormic growth; twig dieback.	
571	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	32.3					5.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Full, vigorous crown; minor bark cracks.	
572	Freeman's Maple	<i>Acer x freemanii</i>	Native	1	22					3.0	1.8	Improbable	Fair	Subject Property, Road ROW	Remove	Development	Yes	Basal shoots; minor evidence of decay; soil high against root flare; snap-off branch.	
573	Siberian Elm	<i>Ulmus pumila</i>	Non-native	2	16.5	14				2.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Twig and branch dieback; in standing water.	
574	Siberian Elm	<i>Ulmus pumila</i>	Non-native	1	13					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Crown dieback; in standing water.	
575	Manitoba Maple	<i>Acer negundo</i>	Native	5	26.5	26	17	16	16	3.0	4.2	Improbable	Fair	Subject Property	Remove	Development	Yes	A few small broken branches; growing out of slope; some crown dieback.	
576	Manitoba Maple	<i>Acer negundo</i>	Native	2	21	14				2.0	2.4	Possible	Fair	Subject Property	Remove	Development	Yes	Epicormic growth; twig and branch dieback; very irregular crown structure.	
577	Manitoba Maple	<i>Acer negundo</i>	Native	8	70.5	52	47	45	42+37+35+28	10.0	10.17	Probable	Very Poor	Subject Property	Remove	Development	No	Large multi-stem tree with numerous stems that have failed; basal shoots and epicormic growth throughout; torsion breaks within failed stems and fungal fruiting bodies; many stems appear likely to fail.	
578	Manitoba Maple	<i>Acer negundo</i>	Native	2	25.5	18				6.0	3.0	Possible	Very Poor	Subject Property	Remove	Development	No	High probability of failure is growing on 45 degree angle; extensive crown dieback; epicormic growth.	
579	Manitoba Maple	<i>Acer negundo</i>	Native	4	35.4	27	35	32		7.0	6	Possible	Poor	Subject Property	Remove	Development	No	Small cavity on 1 stem with decay; fruiting bodies on upper stem; epicormic growth.	
580	Manitoba Maple	<i>Acer negundo</i>	Native	1	48					4.0	3.0	Possible	Poor	Subject Property	Remove	Development	No	Numerous fallen branches; twig and branch dieback; epicormic growth.	
581	Manitoba Maple	<i>Acer negundo</i>	Native	1	45					7.0	3.0	Possible	Very Poor	Subject Property	Remove	Development	No	Stem almost parallel to ground; epicormic growth; fruiting bodies; decay throughout.	
582	Manitoba Maple	<i>Acer negundo</i>	Native	2	38	20				5.0	3.6	Possible	Very Poor	Subject Property	Remove	Development	No	Main stem failed and secondary stems growing off of horizontal stem; numerous fruiting bodies; epicormic growth; basal shoots; full of decay.	
583	Manitoba Maple	<i>Acer negundo</i>	Native	2	42	35				8.0	4.8	Possible	Very Poor	Subject Property	Remove	Development	No	Loose bark; epicormic growth; fruiting bodies; 1 large stem growing parallel to ground; decay throughout.	
584	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	43					2.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Twigs dieback; some epicormic branching.	
585	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	23.2					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Narrow crown with some dieback.	
586	Manitoba Maple	<i>Acer negundo</i>	Native	1	56					7.0	3.6	Improbable	Very Poor	Subject Property	Remove	Development	No	Catastrophic failure; entirely failed and hollowed out but +10 secondary stems growing out of hole; epicormic growth.	
587	Manitoba Maple	<i>Acer negundo</i>	Native	2	47.2	43				6.0	6	Possible	Poor	Subject Property	Remove	Development	No	Epicormic growth; woodpecker damage; shear plane crack in upper scaffold; crown dieback.	
588	Manitoba Maple	<i>Acer negundo</i>	Native	1	39.5					4.0	2.4	Possible	Very Poor	Subject Property	Remove	Development	No	Primarily failed; secondary stems growing off the main stem; decay throughout; branch dieback; epicormic growth and basal shoots.	
589	Manitoba Maple	<i>Acer negundo</i>	Native	4	44.5	29	24	12		3.0	6	Possible	Very Poor	Subject Property	Remove	Development	No	Branch loss; extensive decay; woodpecker cavity.	
590	Eastern Red Cedar	<i>Juniperus virginiana</i>	Native	4	30.5	29	29			3.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Vines in crown; irregular crown.	
591	Eastern Red Cedar	<i>Juniperus virginiana</i>	Native	2	28	28	27			2.5	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Branches growing within canopy; twig and branch dieback.	
592	Eastern Red Cedar	<i>Juniperus virginiana</i>	Native	2	23	22				3.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Relatively full crown with minor dieback.	
593	Eastern Red Cedar	<i>Juniperus virginiana</i>	Native	3	28	18	16			3.0	4.2	Improbable	Good	Subject Property	Remove	Development	Yes	Buckthorn growing within canopy.	
594	Eastern Red Cedar	<i>Juniperus virginiana</i>	Native	3	32	22	18			3.0	4.8	Improbable	Good	Subject Property	Remove	Development	Yes	Relatively full, vigorous crown; lower scaffold competition with buckthorn.	
595	Red Pine	<i>Pinus resinosa</i>	Native	3	76	32	18			5.0	7.53	Improbable	Good	Subject Property	Remove	Development	Yes	Minor branch crowding; full, vigorous crown with minimal dieback.	
596	Eastern Red Cedar	<i>Juniperus virginiana</i>	Native	4	19	18	16	16		4.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Wide-spread canopy.	
597	White Spruce	<i>Picea glauca</i>	Native	1	53.5					3.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Minor twin dieback; full crown.	
598	Norway Spruce	<i>Picea abies</i>	Non-native	1	40					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Full and healthy crown; trees growing within canopy.	
599	Norway Spruce	<i>Picea abies</i>	Non-native	2	18	12				3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Asymmetrical crown due to competition with adjacent tree; minor branch crowding.	
600	Norway Maple	<i>Acer platanoides</i>	Non-native	1	26.5					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Some epicormic growth; twig dieback.	
601	White Spruce	<i>Picea glauca</i>	Native	1	55.4					3.0	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Relatively balanced; healthy crown; well balanced root flare.	
602	Norway Spruce	<i>Picea abies</i>	Non-native	1	38					2.0	2.4	Improbable	Fair	Subject Property	Retain	Development	Yes	Low bark vigor; twig and branch dieback.	
603	White Spruce	<i>Picea glauca</i>	Native	1	51.9					3.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Old stem wound with compartmentalization; some crown dieback; light pruning.	
604	Silver Maple	<i>Acer saccharinum</i>	Native	1	51.3					4.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Twigs and branch dieback; included bark.	
605	Norway Spruce	<i>Picea abies</i>	Non-native	2	40	32				4.0	4.8	Improbable	Good	Subject Property	Remove	Development	Yes	Well balanced root flare; minor dieback.	
606	Norway Spruce	<i>Picea abies</i>	Non-native	1	46.5					3.5	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Slightly asymmetrical crown; small scale in mid stem.	
607	Norway Spruce	<i>Picea abies</i>	Non-native	1	53.2					6.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Solid main stem; some branch by dieback.	
608	Norway Spruce	<i>Picea abies</i>	Non-native	1	45					4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Asymmetrical crown due to adjacent tree; minor twig dieback.	
609	Norway Spruce	<i>Acer platanoides</i>	Non-native	1	28.1					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Minor crown dieback; woodpecker dead over old bark stem.	
610	Black Pine	<i>Pinus nigra</i>	Non-native	1	56.5					4.5	3.6	Improbable	Good	Subject Property	Remove	Development	Yes	Asymmetrical crown due to adjacent tree; forked crown; twig by dieback.	
611	Red Pine	<i>Pinus resinosa</i>	Native	1	55.7					4.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Branch crowding; some dieback; solid main stem.	
612	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	11.5					1.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Some decay at lower branch union; otherwise healthy.	
613	White Spruce	<i>Picea glauca</i>	Native	1	24					3.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise full.	
614	White Spruce	<i>Picea glauca</i>	Native	1	24.5					3.0	1.8	Improbable	Good	Subject Property	Retain			Asymmetrical crown due to adjacent tree.	
615	White Spruce	<i>Picea glauca</i>	Native	1	25					2.5	1.8	Improbable	Good	Subject Property	Retain			Natural pruning.	
616	White Spruce	<i>Picea glauca</i>	Native	1	17					3.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise full.	
617	White Spruce	<i>Picea glauca</i>	Native	1	32.5					3.0	2.4	Improbable	Good	Subject Property	Retain			Dead lower branches.	
618	White Spruce	<i>Picea glauca</i>	Native	2	23	22				3.5	3.0	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise healthy.	
619	White Spruce	<i>Picea glauca</i>	Native	1	26.5					3.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise healthy.	
620	White Spruce	<i>Picea glauca</i>	Native	1	26.5					3.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise healthy.	
621	White Spruce	<i>Picea glauca</i>	Native	1	24					4.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise healthy.	
622	White Spruce	<i>Picea glauca</i>	Native	1	30					3.5	2.4	Improbable	Good	Subject Property	Retain			Dense lower branch structure.	
623	White Spruce	<i>Picea glauca</i>	Native	1	25					4.0	1.8	Improbable	Fair	Subject Property	Retain			Girdling root; heavy cone production; some dieback.	
624	White Spruce	<i>Picea glauca</i>	Native	1	32					3.0	2.4	Improbable	Good	Subject Property	Retain			Well balanced crown; vigorous tree.	
625	White Spruce	<i>Picea glauca</i>	Native	1	28.5					3.0	1.8	Improbable	Good	Subject Property	Retain				
626	White Spruce	<i>Picea glauca</i>	Native	1	24.5					2.0	1.8	Improbable	Good	Subject Property	Retain			Asymmetrical crown due to adjacent trees.	
627	White Spruce	<i>Picea glauca</i>	Native	2	19.5	18				3.0	2.4	Improbable	Good	Subject Property	Retain			Codominant.	
628	White Spruce	<i>Picea glauca</i>	Native	1	26					2.5	1.8	Improbable	Good	Subject Property	Retain			Well balanced root flare and crown; relatively vigorous.	
629	White Spruce	<i>Picea glauca</i>	Native	1	29.9					2.5	1.8	Improbable	Good	Subject Property	Retain				

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tre Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
630	Eastern White Pine	<i>Pinus strobus</i>	Native	1	22.9					3.0	1.8	Improbable	Good	Subject Property	Retain			Full, vigorous crown; solid main stem
631	White Spruce	<i>Picea glauca</i>	Native	1	23.5					2.5	1.8	Improbable	Good	Subject Property	Retain			
632	Eastern White Pine	<i>Pinus strobus</i>	Native	1	27.7					4.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical due to competition with adjacent tree; crown otherwise full and vigorous
633	Eastern White Pine	<i>Pinus strobus</i>	Native	1	18					1.5	1.8	Improbable	Good	Subject Property	Retain			
634	White Spruce	<i>Picea glauca</i>	Native	1	31					2.5	2.4	Improbable	Good	Subject Property	Retain			
635	Eastern White Pine	<i>Pinus strobus</i>	Native	1	11.5					3.0	1.8	Possible	Very Poor	Subject Property	Retain			Leader dead; a few scaffold branches alive with necrotic needles; bark loss; impacted by pine weevil
636	Eastern White Pine	<i>Pinus strobus</i>	Native	1	15.5					1.5	1.8	Possible	Fair	Subject Property	Retain			Chlorosis in crown; natural pruning.
637	Eastern White Pine	<i>Pinus strobus</i>	Native	1	14					1.5	0	Possible	Dead	Subject Property	Retain			
638	Eastern White Pine	<i>Pinus strobus</i>	Native	1	15.9					2.0	1.8	Improbable	Good	Subject Property	Retain			Natural pruning.
639	Eastern White Pine	<i>Pinus strobus</i>	Native	1	21					3.0	1.8	Improbable	Fair	Subject Property	Retain			Stem crowding; asymmetrical crown due to competition with adjacent trees; some dieback
640	Eastern White Pine	<i>Pinus strobus</i>	Native	1	11.1					1.0	1.8	Improbable	Fair	Subject Property	Retain			Narrow crown due to crowding; some dieback
641	Eastern White Pine	<i>Pinus strobus</i>	Native	1	15.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Uneven crown; some branch dieback.
642	Eastern White Pine	<i>Pinus strobus</i>	Native	1	23.7					3.5	1.8	Improbable	Fair	Subject Property	Retain			Bark cracks with sap; narrow root flare; some dieback
643	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26.5					1.5	1.8	Improbable	Fair	Subject Property	Retain			Epimorphic growth; low vigor.
644	Eastern White Pine	<i>Pinus strobus</i>	Native	1	19.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust.
645	Eastern White Pine	<i>Pinus strobus</i>	Native	1	24					2.0	1.8	Possible	Poor	Subject Property	Retain			Bark cracks with sap; relatively extensive crown dieback; crowding
646	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning.
647	Eastern White Pine	<i>Pinus strobus</i>	Native	1	19.5					3.0	1.8	Improbable	Good	Subject Property	Retain			Slightly asymmetrical crown due to competition with adjacent tree; crown otherwise healthy
648	Eastern White Pine	<i>Pinus strobus</i>	Native	1	24.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; forked crown due to white pine weevil.
649	Eastern White Pine	<i>Pinus strobus</i>	Native	1	19.8					2.0	1.8	Improbable	Poor	Subject Property	Retain			Blister rust; relatively extensive crown dieback
650	Eastern White Pine	<i>Pinus strobus</i>	Native	1	21.5					2.5	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; forked crown due to white pine weevil.
651	Eastern White Pine	<i>Pinus strobus</i>	Native	1	22					3.0	1.8	Improbable	Fair	Subject Property	Retain			Blister rust; some crown dieback; asymmetrical crown
652	Eastern White Pine	<i>Pinus strobus</i>	Native	1	19.6					1.5	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
653	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
654	Eastern White Pine	<i>Pinus strobus</i>	Native	1	24					2.0	1.8	Improbable	Fair	Subject Property	Retain			Blister rust; impacted by pine weevil; some dieback
655	Eastern White Pine	<i>Pinus strobus</i>	Native	1	13.8					1.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
656	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26.7					4.0	1.8	Improbable	Fair	Subject Property	Retain			Blister rust; asymmetrical crown due to competition with adjacent tree; some dieback
657	Eastern White Pine	<i>Pinus strobus</i>	Native	1	24.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
658	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
659	Eastern White Pine	<i>Pinus strobus</i>	Native	1	11					1.5	0	Possible	Dead	Subject Property	Retain			Pine weevil; forked crown dead.
660	Eastern White Pine	<i>Pinus strobus</i>	Native	1	34.5					2.5	2.4	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
661	Eastern White Pine	<i>Pinus strobus</i>	Native	1	20					4.0	1.8	Improbable	Fair	Subject Property	Retain			Bark cracks with sap; blister rust; minor dieback.
662	Eastern White Pine	<i>Pinus strobus</i>	Native	1	20.5					1.5	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
663	Eastern White Pine	<i>Pinus strobus</i>	Native	1	19.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
664	Eastern White Pine	<i>Pinus strobus</i>	Native	1	20					3.0	1.8	Improbable	Fair	Subject Property	Retain			Blister rust; slightly crowded crown with minor dieback
665	Eastern White Pine	<i>Pinus strobus</i>	Native	1	15.6					1.0	1.8	Improbable	Fair	Subject Property	Retain			Signs of blister rust; natural pruning; forked crown due to white pine weevil.
666	Eastern White Pine	<i>Pinus strobus</i>	Native	1	18					2.0	1.8	Improbable	Good	Subject Property	Retain			Well balanced, vigorous crown; minor signs of blister rust.
667	American Basswood	<i>Tilia americana</i>	Native	3	19.5	17	10			3.0	3.0	Improbable	Good	Subject Property	Retain			Minor dieback; growing out of rock pile.
668	American Basswood	<i>Tilia americana</i>	Native	3	42	17	16			5.0	4.8	Possible	Fair	Ret ROW, Subject Property	Retain			Multiple dead branches; decay throughout; small cavities forming.
669	White Ash	<i>Fraxinus americana</i>	Native	2	17.3	13				2.0	2.4	Probable	Very Poor	Ret ROW, Subject Property	Retain			1 stem dead with decay; extensive crown dieback; epicormic growth only
670	American Basswood	<i>Tilia americana</i>	Native	1	11.5					2.0	1.8	Possible	Fair	Subject Property	Retain			Twig and branch dieback; suppressed by buckthorn.
671	American Elm	<i>Ulmus americana</i>	Native	1	23.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Sapsucker damage; staining at 1 branch union; dieback in lower scaffold
672	American Basswood	<i>Tilia americana</i>	Native	1	34.5					4.0	2.4	Possible	Poor	Ret ROW, Subject Property	Retain			Numerous dead branches; multiple branch failures.
673	White Ash	<i>Fraxinus americana</i>	Native	1	23					2.0	1.8	Possible	Very Poor	Subject Property	Retain			Extensive crown dieback; bark loss in some scaffold branches.
674	White Ash	<i>Fraxinus americana</i>	Native	1	19.5					2.0	1.8	Possible	Fair	Subject Property	Retain			No evidence of EAB; minor twigs and branch dieback.
675	Black Walnut	<i>Juglans nigra</i>	Non-native	2	26	22				5.0	3.0	Improbable	Fair	Subject Property	Retain			Few dead branches; overall good form.
676	Black Locust	<i>Robinia pseudoacacia</i>	Non-native	1	11					1.5	1.8	Improbable	Fair	Subject Property	Retain			Crown generally suppressed; competing with surrounding buckthorn.
677	Black Walnut	<i>Juglans nigra</i>	Native	2	24	20				0.5	1.8	Possible	Dead	Subject Property	Retain			Two snags; evidence of wildlife feeding; no bark.
678	American Elm	<i>Ulmus americana</i>	Native	1	19					2.0	1.8	Improbable	Fair	Subject Property	Retain			Leathery, vigorous crown.
679	American Elm	<i>Ulmus americana</i>	Native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Retain			Crown generally suppressed; competing with surrounding buckthorn; slight lean.
680	White Spruce	<i>Picea glauca</i>	Native	1	27					2.0	1.8	Improbable	Fair	Subject Property	Retain			Evidence of pruning to accommodate trail.
681	Eastern White Pine	<i>Pinus strobus</i>	Native	1	21					4.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
682	Eastern White Pine	<i>Pinus strobus</i>	Native	1	19					2.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
683	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16					2.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; healthy crown; some sap ooze.
684	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16					2.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; healthy crown.
685	Eastern White Pine	<i>Pinus strobus</i>	Native	1	20					3.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
686	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16					2.5	1.8	Improbable	Good	Subject Property	Retain			Good form.
687	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26					3.0	1.8	Improbable	Good	Subject Property	Retain			Good erect form; full crown, some chlorotic foliage.
688	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26					3.5	1.8	Improbable	Good	Subject Property	Retain			Good form.
689	Eastern White Pine	<i>Pinus strobus</i>	Native	1	17					3.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
690	Eastern White Pine	<i>Pinus strobus</i>	Native	1	15					2.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; full crown, some chlorotic foliage.
691	Eastern White Pine	<i>Pinus strobus</i>	Native	1	17					3.0	1.8	Possible	Very Poor	Subject Property	Retain			Peeling bark, all but one section of lower crown has died off.
692	Eastern White Pine	<i>Pinus strobus</i>	Native	1	16					3.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
693	Eastern White Pine	<i>Pinus strobus</i>	Native	1	25					4.0	1.8	Improbable	Good	Subject Property	Retain			Good erect form; full crown.
694	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26					5.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
695	Eastern White Pine	<i>Pinus strobus</i>	Native	1	20					3.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; full crown, generally chlorotic foliage.
696	Eastern White Pine	<i>Pinus strobus</i>	Native	1	28					5.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
697	Eastern White Pine	<i>Pinus strobus</i>	Native	1	18					3.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; vigorous crown, somewhat suppressed by adjacent pine; some chlorotic foliage.
698	Eastern White Pine	<i>Pinus strobus</i>	Native	1	22					5.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
699	Eastern White Pine	<i>Pinus strobus</i>	Native	1	24					3.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; vigorous crown, minor chlorotic foliage.
700	Eastern White Pine	<i>Pinus strobus</i>	Native	1	28					5.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
701	Eastern White Pine	<i>Pinus strobus</i>	Native	1	22					5.0	1.8	Improbable	Good	Subject Property	Retain			Good form; double leader.
702	Eastern White Pine	<i>Pinus strobus</i>	Native	1	22					3.5	1.8	Improbable	Good	Subject Property	Retain			Good erect form; vigorous crown, codominant leaders.
703	Eastern White Pine	<i>Pinus strobus</i>	Native	1	37					6.0	2.4	Improbable	Good	Subject Property	Retain			Good form; evidence of self pruning.
704	Eastern White Pine	<i>Pinus strobus</i>	Native	1	17					3.0	1.8	Improbable	Good	Subject Property	Retain			Good erect form; vigorous crown; slightly suppressed by adjacent trees.
705	Eastern White Pine	<i>Pinus strobus</i>	Native	1	22					4.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
706	Eastern White Pine	<i>Pinus strobus</i>	Native	1	10.5					1.5	1.8	Improbable	Fair	Subject Property	Retain			Good erect form; dieback of lower crown; some chlorotic foliage.
707	Eastern White Pine	<i>Pinus strobus</i>	Native	1	18					4.0	1.8	Improbable	Good	Subject Property	Retain			Good form.
708	Eastern White Pine	<i>Pinus strobus</i>	Native	1	27					3.0	1.8	Improbable	Good	Subject Property	Retain			Good erect form; vigorous crown.
709	Manitoba Maple	<i>Acer negundo</i>	Native	3	15	13</td												

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tre Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
711	Manitoba Maple	<i>Acer negundo</i>	Native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous crown; epicormic shoots; somewhat suppressed.
712	Manitoba Maple	<i>Acer negundo</i>	Native	1	11					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; dead branches.
713	Manitoba Maple	<i>Acer negundo</i>	Native	2	10	12				3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous crown; epicormic shoots; at edge of rock outc.
714	Manitoba Maple	<i>Acer negundo</i>	Native	1	13					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; dead branches.
715	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous crown; epicormic shoots; somewhat suppressed by adjacent maples.
716	Manitoba Maple	<i>Acer negundo</i>	Native	2	12	10				2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; dead branches.
717	Manitoba Maple	<i>Acer negundo</i>	Native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; dead branches.
718	Manitoba Maple	<i>Acer negundo</i>	Native	1	10					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous crown; epicormic shoots; somewhat suppressed by adjacent maples.
719	Manitoba Maple	<i>Acer negundo</i>	Native	2	16	10				2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous crown; epicormic shoots; somewhat suppressed by adjacent maples.
720	Norway Maple	<i>Acer platanoides</i>	Non-native	2	57	17				5.0	4.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous full dense crown; open trunk wound; mostly callused.
721	Norway Maple	<i>Acer platanoides</i>	Non-native	1	59					6.5	3.6	Possible	Fair	Subject Property	Remove	Development	Yes	Very poor attachment of main branches; numerous dead branches.
722	Norway Maple	<i>Acer platanoides</i>	Non-native	1	63					5.0	4.5	Improbable	Fair	Subject Property	Remove	Development	Yes	Snapped by other maple; twisted trunk.
723	Manitoba Maple	<i>Acer negundo</i>	Native	1	15					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.
724	White Ash	<i>Fraxinus americana</i>	Native	1	13					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Wounded trunk; codominant leaders; galleries.
725	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; some epicormic shoots; few dead branches.
726	Manitoba Maple	<i>Acer negundo</i>	Native	1	10					1.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Codominant trunks; dead epicormic shoots; crown somewhat uneven.
727	Manitoba Maple	<i>Acer negundo</i>	Native	1	11					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; some epicormic shoots; few dead branches.
728	Manitoba Maple	<i>Acer negundo</i>	Native	1	19					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Lower epicormic shoots; top of slope along buckthorn thicket; twig dieback.
729	Manitoba Maple	<i>Acer negundo</i>	Native	2	19	13				3.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; some epicormic shoots; few dead branches.
730	White Ash	<i>Fraxinus americana</i>	Native	1	13					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Lower epicormic shoots; top of slope along buckthorn thicket; vigorous.
731	Norway Maple	<i>Acer platanoides</i>	Non-native	2	44	38				5.0	5.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Large wound where large branch failure was; branch failure.
732	Norway Maple	<i>Acer platanoides</i>	Non-native	1	21					5.0	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	On edge of rocky culvert, eroded at base of trunk; crown asymmetrical to field.
733	Norway Maple	<i>Acer platanoides</i>	Non-native	1	42					6.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Poor branch attachment; numerous dead branches.
734	Norway Maple	<i>Acer platanoides</i>	Non-native	3	16	14	12			3.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Codominant trunks with weak attachment; crown partially suppressed by adjacent trees.
735	Norway Maple	<i>Acer platanoides</i>	Non-native	2	15	15				4.0	2.4	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.
736	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17					3.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Erect trunk; crown partially suppressed by adjacent trees.
737	Norway Maple	<i>Acer platanoides</i>	Non-native	1	13					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Healing wounds up trunk; smaller dead stem and other smaller live stem.
738	Norway Maple	<i>Acer platanoides</i>	Non-native	1	17					3.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Entire trunk; vigorous crown; crown partially suppressed by adjacent trees.
739	Norway Maple	<i>Acer platanoides</i>	Non-native	1	10.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Large wound on trunk healing.
740	Manitoba Maple	<i>Acer negundo</i>	Native	2	29	25				4.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Vigorous low crown; epicormic shoots throughout; lower trunk wound.
741	Manitoba Maple	<i>Acer negundo</i>	Native	1	14.5					2.5	1.8	Improbable	Fair	Subject Property	Retain			Two smaller stems; fair form.
742	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					1.5	1.8	Improbable	Fair	Subject Property	Retain			Epicormic shoots throughout; multistem; at edge of slope.
743	Manitoba Maple	<i>Acer negundo</i>	Native	1	10.4					1.5	1.8	Improbable	Fair	Subject Property	Retain			Fair form.
744	Manitoba Maple	<i>Acer negundo</i>	Native	5	20.5	18	20	16	15	4.0	3.6	Possible	Poor	Subject Property	Remove	Development	No	Epicormic shoots throughout; at edge of slope; crown dieback; broken branches; deadwood small.
745	Manitoba Maple	<i>Acer negundo</i>	Native	5	20	20	18	14	14	5.0	3.6	Improbable	Fair	Subject Property	Retain - Impact			One stem touching ground then growing straight; numerous dead branches.
746	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					2.5	1.8	Improbable	Good	Subject Property	Remove - Retain Stump	Hazard Mitigation	Yes	Fair vigorous crown; erect form.
747	Manitoba Maple	<i>Acer negundo</i>	Native	3	19	16	13			6.0	3.0	Probable	Poor	Subject Property	Remove - Retain Stump	Hazard Mitigation	No	Peeling bark; live crown but numerous dead branches; large branch failures.
748	White Ash	<i>Fraxinus americana</i>	Native	1	27					3.0	1.8	Improbable	Good	Subject Property	Retain			Full vigorous crown; no evidence of EAB.
1045	Manitoba Maple	<i>Acer negundo</i>	Native	2	20.5	17				4.5	1.8	Improbable	Fair	Subject Property	Retain			Full crown; vigorous epicormic shoots; low branching.
1051	Manitoba Maple	<i>Acer negundo</i>	Native	1	25	25				5.0	1.8	Improbable	Fair	Subject Property	Retain			Full crown; vigorous epicormic shoots; low branching.
1663	White Ash	<i>Fraxinus americana</i>	Native	1	15					2.0	1.8	Probable	Very Poor	Subject Property	Retain			Exfoliating bark; broken previously codominant leader; asymmetrical crown to N.
1664	Eastern White Pine	<i>Pinus strobus</i>	Native	1	10.5					1.0	1.8	Improbable	Fair	Subject Property	Retain			Successored lower branches.
1665	Eastern White Pine	<i>Pinus strobus</i>	Native	1	14.5					2.0	1.8	Improbable	Good	Subject Property	Retain			Good form and structure.
1666	American Elm	<i>Ulmus americana</i>	Native	1	19					2.0	1.8	Improbable	Fair	Subject Property	Retain			Minor branch dieback.
1667	White Spruce	<i>Picea glauca</i>	Native	1	16					3.0	1.8	Improbable	Good	Subject Property	Retain			Asymmetrical crown to N.
1668	White Spruce	<i>Picea glauca</i>	Native	1	32					3.0	2.4	Improbable	Good	Subject Property	Retain			Codominant leaders.
1669	White Spruce	<i>Picea glauca</i>	Native	1	16.5					2.5	1.8	Improbable	Fair	Subject Property	Retain			Slightly suppressed by competition.
1670	White Spruce	<i>Picea glauca</i>	Native	1	20.5					3.0	1.8	Improbable	Good	Subject Property	Retain			Good form and structure.
1671	White Spruce	<i>Picea glauca</i>	Native	1	26					4.0	1.8	Improbable	Fair	Subject Property	Retain			No couple of acutely angled branches.
1672	White Spruce	<i>Picea glauca</i>	Native	1	19.5					2.0	1.8	Improbable	Fair	Subject Property	Retain			Good form and structure.
1673	White Spruce	<i>Picea glauca</i>	Native	2	24	19				2.0	3.0	Possible	Fair	Subject Property	Retain			Minor branch dieback.
1674	White Spruce	<i>Picea glauca</i>	Native	1	21					2.5	1.8	Possible	Good	Subject Property	Retain			Codominant stems with included bark.
1675	White Spruce	<i>Picea glauca</i>	Native	1	27					4.0	1.8	Improbable	Good	Subject Property	Retain			Good form and structure.
1676	American Elm	<i>Ulmus americana</i>	Native	1	46.5					4.0	3.0	Probable	Fair	Subject Property	Retain			Codominant stem with included bark.
1678	American Basswood	<i>Tilia americana</i>	Native	1	18.5					4.0	1.8	Probable	Fair	Subject Property	Retain			Slight stem lean to S; low branching structure.
1679	American Basswood	<i>Tilia americana</i>	Native	1	16					2.0	1.8	Possible	Poor	Subject Property	Retain			Asymmetrical crown to N; codominant leaders; stem rub.
1680	American Basswood	<i>Tilia americana</i>	Native	1	12					2.0	1.8	Possible	Poor	Subject Property	Retain			Stem lean SE; stem rub; rocks piled at base; dead lower branches.
1681	Eastern White Pine	<i>Pinus strobus</i>	Native	1	13					1.5	1.8	Improbable	Fair	Subject Property	Retain			Lower branch dieback.
1682	Eastern White Pine	<i>Pinus strobus</i>	Native	1	28.5					4.0	1.8	Improbable	Fair	Subject Property	Retain			Asymmetrical crown to N.
1683	Norway Spruce	<i>Picea abies</i>	Native	1	29					3.0	1.8	Improbable	Fair	Subject Property	Retain			Codominant leaders at top of tree.
1684	Eastern White Pine	<i>Pinus strobus</i>	Native	1	23					3.5	1.8	Improbable	Fair	Subject Property	Retain			Lots low branches creating short, wide form.
1685	White Spruce	<i>Picea glauca</i>	Native	1	35					5.0	2.4	Improbable	Good	Subject Property	Retain			Good form and structure.
1686	Norway Spruce	<i>Picea abies</i>	Non-native	1	38					4.5	2.4	Improbable	Good	Subject Property	Retain			Good form and structure.
1687	White Ash	<i>Fraxinus americana</i>	Native	1	17					2.0	1.8	Possible	Poor	Subject Property	Retain			Epicormic growth; stem wounds; codominant leaders.
1688	Eastern White Pine	<i>Pinus strobus</i>	Native	1	20					4.0	1.8	Probable	Fair	Subject Property	Retain			No live branches.
1689	Eastern White Pine	<i>Pinus strobus</i>	Native	1	26					4.5	1.8	Improbable	Fair	Subject Property	Retain			Stem rub; resin; light pruning.
1690	Eastern White Pine	<i>Pinus strobus</i>	Native	1	36					5.0	2.4	Improbable	Fair	Subject Property	Retain			Codominant leaders; light pruning.
1691	White Ash	<i>Fraxinus americana</i>	Native	1	23.5					3.0	1.8	Improbable	Fair	Subject Property	Retain			EAB exit holes and galleries.
1692	Manitoba Maple	<i>Acer negundo</i>	Native	1	62	45				5.0	6.42	Probable	Very Poor	Subject Property	Retain			Broken stem; large cavity in lower stem; epicormic growth; multiple broken branches.
1693	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	12					1.0	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Curved stem; sticks and other yard waste piled at base; stem wound.
1694	Manitoba Maple	<i>Acer negundo</i>	Native	1	36.5					8.0	2.4	Possible	Fair	Subject Property	Retain			History of pruning on southside branches towards footpath; one scaffold branch cracked and failed through center.
1695	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	42					1.0	1.8	Possible	Poor	Subject Property	Remove	Development	No	Multiple stem wounds; epicormic growth; multiple leaders with included bark.
1696	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					2.0	1.8	Possible	Very Poor	Subject Property	Remove	Development	No	Multiple stem wounds; epicormic growth; crown to N; exfoliating bark.
1697	White Ash	<i>Fraxinus americana</i>	Native	1	50.5					11.0	3.6	Probable	Very Poor	Subject Property	Retain			Multiple broken branches; history of pruning; one large, hazardous scaffold branch extending south over existing footpath; exfoliating bark.
1698	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	19.5					2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Multiple stem wounds; epicormic growth; multiple leaders with included bark.
1699	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	15					2.5	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Multiple stem wounds; epicormic growth.
1700	White Ash	<i>Fraxinus americana</i>	Native	1	10					1.0	1.8	Possible	Fair	Subject Property	Retain			Stem wound.
1701	Manitoba Maple	<i>Acer negundo</i>	Native	1	13					2.5	1.8	Possible	Poor</td					

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Tree Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments	
1702	Manitoba Maple	<i>Acer negundo</i>	Native	1	14.5					2.0	1.8	Possible	Poor	Subject Property	Retain			Stem lean to S; dead lower branches.	
1703	Manitoba Maple	<i>Acer negundo</i>	Native	4	20.5	17	16	15		2.5	3.6	Possible	Poor	Subject Property	Retain			Multiple dead branches.	
1704	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	3	25.5	19	16			5.0	3.6	Possible	Very Poor	Subject Property	Remove - Retain Stump	Hazard Mitigation	No	EAB exit holes and galleries; stem wounds.	
1705	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	12.5					4.0	1.8	Possible	Poor	Subject Property	Remove - Retain Stump	Hazard Mitigation	No	EAB exit holes and galleries; stem wounds; second stem under 10; asymmetric crown to NE.	
1706	Green Ash	<i>Fraxinus pennsylvanica</i>	Native	1	11.5					1.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form and structure; some lichen or fungus along lower stem.	
1707	Manitoba Maple	<i>Acer negundo</i>	Native	1	26					3.0	1.8	Possible	Fair	Subject Property	Retain			Stem lean to N; epicormic growth.	
1708	Common Apple	<i>Malus pumila</i>	Non-native	5	22	21	18	15	14	5.0	3.6	Probable	Very Poor	Subject Property	Retain			Codominant stems; included bark; crooked growth form; multiple dead branches.	
1709	Common Apple	<i>Malus pumila</i>	Non-native	5	14	13	11	11		2.5	2.4	Probable	Poor	Subject Property	Remove	Development	No	Multiple dead branches; exfoliating bark.	
1710	White Ash	<i>Fraxinus americana</i>	Native	1	13					1.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Exfoliating bark; epicormic growth.	
1711	Manitoba Maple	<i>Acer negundo</i>	Native	1	29.5					3.5	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Significant stem lean to N; included bark.	
1712	Manitoba Maple	<i>Acer negundo</i>	Native	3	23	17	17			4.0	3.6	Possible	Poor	Subject Property	Retain			On rocky slope; history of pruning; codominant stems and leaders; epicormic growth.	
1713	Manitoba Maple	<i>Acer negundo</i>	Native	3	28	21	20			6.0	4.2	Possible	Fair	Subject Property	Retain			On rocky slope; codominant stems and leaders; epicormic growth.	
1714	Manitoba Maple	<i>Acer negundo</i>	Native	1	10					1.0	1.8	Improbable	Good	Subject Property	Remove - Retain Stump	Hazard Mitigation	Yes	No notable defects.	
1715	Norway Maple	<i>Acer platanoides</i>	Non-native	1	22					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Straight form.	
1716	Norway Maple	<i>Acer platanoides</i>	Non-native	2	54	26				8.0	4.8	Possible	Poor	Subject Property	Remove	Development	No	Included bark; reaction wood at base, with rot and fungus; large cavity with heartwood rot; few broken branches.	
1717	Norway Maple	<i>Acer platanoides</i>	Non-native	1	18.5					5.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Small stem; leaning to the right; leaning down to N.	
1718	Norway Maple	<i>Acer platanoides</i>	Non-native	2	28	26				5.0	3.6	Improbable	Fair	Subject Property	Remove	Development	Yes	Codominant leaders with included bark.	
1720	Norway Maple	<i>Acer platanoides</i>	Non-native	1	90.5					11.0	6	Probable	Poor	Subject Property	Remove	Development	No	Multiple broken branches and one stem; compartmentalized lower stem wound with heartwood rot; included bark.	
1721	White Ash	<i>Fraxinus americana</i>	Native	3	17	17	14			4.5	3.0	Probable	Very Poor	Subject Property	Remove	Development	No	Stem wounds, bark beginning to exfoliate; epicormic growth.	
1722	White Ash	<i>Fraxinus americana</i>	Native	1	12.5					1.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Stem wounds; bark beginning to exfoliate.	
1723	White Ash	<i>Fraxinus americana</i>	Native	2	14	11				2.0	1.8	Probable	Very Poor	Subject Property	Remove	Development	No	Stem wounds; bark beginning to exfoliate.	
1724	White Ash	<i>Fraxinus americana</i>	Native	1	17.5					2.0	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Good form and structure; little to no defects.	
1725	White Ash	<i>Fraxinus americana</i>	Native	1	14.5					2.5	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Smaller second stem; codominant leaders.	
1726	White Ash	<i>Fraxinus americana</i>	Native	1	16.5					2.5	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Codominant leaders.	
1727	White Ash	<i>Fraxinus americana</i>	Native	2	18	16				2.5	2.4	Possible	Fair	Subject Property	Remove	Development	No	Codominant stems with included bark; asymmetric crown to W.	
1728	White Ash	<i>Fraxinus americana</i>	Native	1	24					3.0	1.8	Possible	Fair	Subject Property	Remove	Development	No	Epicormic growth.	
1729	White Ash	<i>Fraxinus americana</i>	Native	1	21	16				3.0	0	Possible	Dead	Subject Property	Remove	Hazard Mitigation	No	No live branches; epicormic growth.	
1730	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					4.0	0	Probable	Dead	Subject Property	Remove	Hazard Mitigation	No	Dead lower branches; stem lean to S.	
1731	Manitoba Maple	<i>Acer negundo</i>	Native	2	19.5	18				5.0	2.4	Possible	Fair	Subject Property	Remove	Hazard Mitigation	Yes	Stem lean to NE; codominant stems with leaders.	
1732	Manitoba Maple	<i>Acer negundo</i>	Native	4	46.5	46	37	37		11.0	7.74	Probable	Poor	Subject Property	Remove	Development	No	Two stems nearly horizontal; multiple broken branches; epicormic growth.	
1733	Norway Maple	<i>Acer platanoides</i>	Non-native	4	50					5.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Relatively good form; codominant leaders; few minor dead branches.	
1801	White Ash	<i>Fraxinus americana</i>	Native	1	19					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
1802	White Ash	<i>Fraxinus americana</i>	Native	1	12					1.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
1803	White Ash	<i>Fraxinus americana</i>	Native	1	15.5					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; few dead branches.	
1804	White Ash	<i>Fraxinus americana</i>	Native	1	12					1.0	1.8	Possible	Dead	Subject Property	Remove	Development	No	Fair form.	
1805	White Ash	<i>Fraxinus americana</i>	Native	1	12					1.0	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Fair form.	
1806	Manitoba Maple	<i>Acer negundo</i>	Native	1	15.5					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.	
1807	Manitoba Maple	<i>Acer negundo</i>	Native	1	10.5					1.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.	
1808	White Ash	<i>Fraxinus americana</i>	Native	1	12					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.	
1809	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					2.5	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form.	
1810	Manitoba Maple	<i>Acer negundo</i>	Native	1	45.5					5.0	3.0	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; typical dead branches and shoots.	
1811	Manitoba Maple	<i>Acer negundo</i>	Native	1	12					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; typical dead branches and shoots; growing on lean.	
1812	Manitoba Maple	<i>Acer negundo</i>	Native	1	10					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; typical dead branches and shoots; growing on lean.	
1813	Manitoba Maple	<i>Acer negundo</i>	Native	1	22					6.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; typical dead branches and shoots; growing on lean.	
1814	Manitoba Maple	<i>Acer negundo</i>	Native	1	11					3.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Fair form; typical dead branches and shoots; growing on lean.	
1815	White Ash	<i>Fraxinus americana</i>	Native	1	10.5					1.5	1.8	Possible	Fair	Subject Property	Remove	Development	Yes	Fair curved leader; fair form.	
1816	Manitoba Maple	<i>Acer negundo</i>	Native	1	10					2.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Lower canopy over - fair form otherwise.	
1825	White Ash	<i>Fraxinus americana</i>	Native	1	28					4.0	1.8	Improbable	Fair	Subject Property	Remove	Development	Yes	Multiple dead branches.	
1836	Manitoba Maple	<i>Acer negundo</i>	Native	2	19.5					4.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Few dead lower branches; overall good form.	
1837	Manitoba Maple	<i>Acer negundo</i>	Native	3	65	36	29			6.0	7.8	Improbable	Good	Subject Property	Remove	Development	Yes	Fair attachment of limbs.	
1838	White Spruce	<i>Picea glauca</i>	Non-native	1	30					3.0	2.4	Improbable	Good	Subject Property	Retain			Good form.	
1839	White Spruce	<i>Picea abies</i>	Non-native	2	27	20				4.0	3.0	Improbable	Good	Subject Property	Remove	Development	Yes	Fair form; double leader.	
1840	Manitoba Maple	<i>Acer negundo</i>	Native	1	65	45	44			7.0	9.24	Improbable	Fair	Subject Property	Remove	Development	Yes	Few dead branches; fair form.	
1841	Manitoba Maple	<i>Acer negundo</i>	Native	1	51					7.0	3.6	Possible	Fair	Subject Property	Remove	Development	Yes	Evidence of large branch failures.	
1842	Manitoba Maple	<i>Acer negundo</i>	Native	3	22	20	14	13		7.0	3.6	Possible	Fair	Subject Property	Remove	Development	Yes	Downded tree; epicormic shoots established.	
1843	Black Walnut	<i>Juglans nigra</i>	Native	1	23					4.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
1844	Norway Maple	<i>Acer platanoides</i>	Non-native	2	33	30				2.0	4.2	Probable	Dead	Subject Property	Remove	Development	No	Main leaders broken off and fallen on both stems; no life crown; hollow trunk.	
1845	Norway Maple	<i>Acer platanoides</i>	Non-native	1	21.5					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
1846	Norway Maple	<i>Acer platanoides</i>	Non-native	1	13					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
1847	Black Walnut	<i>Juglans nigra</i>	Native	1	10					3.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
A	Blue Spruce	<i>Picea pungens</i>	Non-native	1	22					2.0	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Good form.	
AB	Norway Maple	<i>Acer platanoides</i>	Non-native	1	35					4.0	2.4	Improbable	Good	Subject Property	Remove	Development	Yes	Good form; inaccessible.	
AC	Norway Spruce	<i>Picea abies</i>	Non-native	1	28					4.0	1.8	Improbable	Good	Subject Property	Retain - Impact	Development	Yes	Good form; inaccessible.	
AD	Norway Spruce	<i>Picea abies</i>	Non-native	1	47					5.0	3.0	Improbable	Good	Subject Property	Retain	Development	Yes	Good form; inaccessible.	
B	Washington Hawthorn	<i>Crataegus phoenicea</i>	Native	2	11	10				2.5	1.8	Improbable	Good	Subject Property	Remove	Development	Yes	Trunks not accessible; estimated DBH.	
C	White Ash	<i>Fraxinus americana</i>	Native	3	11	11	10			2.0	2.4	Possible	Very Poor	Subject Property	Remove	Development	No	EAB; little remaining live tissue.	
D	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	22					3.0	1.8	Improbable	Fair	Subject Property	Road ROW	Development	Yes	Aggressive basal and epicormic shoots; dead leaders.	
E	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	28					3.0	1.8	Improbable	Good	Subject Property	Road ROW	Development	Yes	Fully vigorous crown; epicormic shoots along laterals.	
F	Amur Corktree	<i>Phellodendron amurense</i>	Non-native	1	15					2.0	1.8	Improbable	Fair	Subject Property	Road ROW	Retain		Good form; few dead branches.	
G	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	30.5					3.5	2.4	Improbable	Good	Subject Property	Road ROW	Remove	Development	Yes	Large full vigorous crown; epicormic shoots along laterals.
H	Eastern Cottonwood	<i>Populus deltoides</i>	Native	1	26					2.0	1.8	Improbable	Good	Subject Property	Road ROW	Retain		Good erect form and vigor.	
I	Willow sp.	<i>Salix</i> sp.	Native	4	24.5	13	20	23		4.5	3.6	Improbable	Fair	Road ROW	Retain			Good form; few dead branches.	
J	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	34					5.0	2.4	Improbable	Fair	Subject Property	Road ROW	Retain	Development	Yes	Good form; few dead branches.
K	Manitoba Maple	<i>Acer negundo</i>	Native	1	10.5					2.0	1.8	Improbable	Fair	Road ROW	Retain			Vigorous growth; copiced form within highway ROW slope.	
L	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	36.5					5.0	2.4	Improbable	Fair	Subject Property	Road ROW	Remove	Development	Yes	Good form; double leader; few dead branches.
M	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	39.5					4.0	2.4	Improbable	Fair	Subject Property	Road ROW	Remove	Development	Yes	Good form; double leader.
N	Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>	Non-native	1	36.5					4.0	2.4	Improbable	Good	Subject Property	Road ROW	Remove	Development	Yes	Large full vigorous crown; epicorm

Guelph Innovation District (Blocks 1 & 2) Tree Inventory and Preservation Plan
Tree Inventory Data

Tree Number	Common Name	Scientific Name	Native/ Non-native	Stem Count	DBH 1 (cm)	DBH 2 (cm)	DBH 3 (cm)	DBH 4 (cm)	DBH 5 (cm)	Crown Radius (m)	Trees Protection Zone (m)	Potential for Structural Failure Rating	Overall Condition	Location	Proposed Action	Rationale for Removal	Compensation Required	Comments
U	American Basswood	<i>Tilia americana</i>	Native	5	20	19	16	16	12	5.5	3.6	Possible	Fair	Rail ROW	Retain			Stem and branch rub; few broken branches; additional stems under 10.
V	American Basswood	<i>Tilia americana</i>	Native	4	32.5	28	16	11		6.0	4.8	Possible	Fair	Rail ROW	Retain			Stem and branch rub; asymmetrical crown to S; additional stems under 10.
W	American Basswood	<i>Tilia americana</i>	Native	3	30.5	29	23			6.5	5.4	Possible	Fair	Rail ROW	Retain			Asymmetrical crown to NW; few broken branches; Sapsucker feeding holes.
X	White Ash	<i>Fraxinus americana</i>	Native	1	13					1.0	1.8	Probable	Very Poor	Rail ROW	Retain			Mostly dead; exfoliating bark.
Y	American Basswood	<i>Tilia americana</i>	Native	1	28					2.0	1.8	Improbable	Fair	Rail ROW	Retain			Full branching structure; included bark.
Z	American Basswood	<i>Tilia americana</i>	Native	5	35	32	30	29	29	6.0	6	Improbable	Fair	Rail ROW	Retain			Twelve stems total; some broken branches; spreading form due to abundance of stems.

Appendix II
Tree Health and Potential for Structural Failure Assessment Criteria

Tree Health Assessment Criteria

Assessment Criteria	Definition ¹
Excellent	Represents a tree in near perfect form, health, and vigour. This tree would exhibit no deadwood, no decline, and no visible defects.
Good	Represents a tree ranging from a generally healthy tree to a near perfect tree in terms of health, vigour and structure. This tree exhibits a complete, balanced crown structure with little to no deadwood and minimal defects as well as a properly formed root flare.
Fair	Represents a tree with minor health, balance or structural issues with minimal to moderate deadwood. Branching structure shows signs of included bark or minor rot within the branch connections or trunk wood. The root flare shows minimal signs of mechanical injury, decay, poor callusing, or girdling roots. Trees in the category require minor remedial actions to improve the vigour and structure of the tree.
Poor	Represents a tree that exhibits a poor vigour, reduced crown size (<70% ² of crown typical of species caused by overcrowding or decline), extreme crown imbalance, or extensive rot in the branching and trunk wood. Fungus could be seen from these rotting areas, suggesting further decay. These trees have extensive crown die back with a large amount of deadwood, and possibly dead sections. These weakened areas can lead to a potential failure of tree sections. Rooting zones show signs of extensive root decay or damage (fruiting bodies or mechanical damage) or girdling roots. Trees in this category require more extensive actions to prevent failure. A tree identified as poor would be a candidate for removal in the near future.
Very Poor	Represents a tree that exhibits major health and structural defects. Quite often the defects or diseases affecting this tree will be fatal. Large quantities of fungus, large dead sections with possible cavities and bark falling off all are signs that a tree is in a major state of decline and would be identified as very poor. These trees have a probable or imminent potential for structural failure. These trees should be identified for removal.
Dead	Represents a tree that exhibits no sign of new growth, including buds, foliage, or shoot growth. These trees have a probable or imminent potential for structural failure. These trees should be identified for removal.

¹ (Dunster 2009)

² The percentage of crown deadwood was adjusted from 30% to 70%, to align with the City of Guelph's compensation exemption criteria.

Potential for Structural Failure Assessment Criteria

Assessment Criteria*	Definition ¹
Improbable	The tree or branch is not likely to fail during normal weather conditions and may not fail in many severe weather conditions within the specified time frame.
Possible	Failure could occur, but it is unlikely during normal weather conditions within the specified time frame.
Probable	Failure may be expected under normal weather conditions within the specified time frame.
Imminent	Failure has started or is most likely to occur in the near future, even if there is no significant wind or increased load. This is a rare occurrence for an assessor to encounter, and it may require immediate action to protect people from harm.

*A specified time frame of 1 year will be used when assessing potential for structural failure.

¹(Dunster et al. 2013)

Appendix III

Conditions of Tree Assessment



Conditions of Tree Assessment

Limitations

This tree inventory and assessment is based on the circumstances and observations by Natural Resource Solutions Inc. (NRSI) as they existed at the time of the site inspection(s) of the Client's Property as described in this report (the "Property") and the trees situated thereon, and upon information provided by the Client to NRSI. The opinions in this assessment are given based on observations made and using generally accepted professional judgment, however, because trees are living organisms and subject to change, damage and disease, the results, observations, recommendations, and analysis as set out in this assessment are valid only at the date any such observations and analysis took place. No guarantee, warranty, representation or opinion is offered or made by NRSI as to the length of the validity of the results, observations, recommendations and analysis contained within this assessment. As a result, the Client shall not rely upon this assessment, save and except for representing the circumstances and observations at the date of site inspection(s), and the analysis and recommendations made in relation to the proposed undertaking. It is recommended that the inventoried trees discussed in this assessment should be re-assessed periodically, where required (i.e., after 2 years).

Further Services

Neither NRSI, nor any assessor employed or retained by NRSI (the "Assessor") for the purpose of preparing or assisting in the preparation of this assessment shall be required to provide any further consultation or services to the Client including, without limitation, acting as an expert witness or witness in any court in any jurisdiction unless the Client has first made specific arrangements with respect to such further services, including providing payment of the Assessor's regular hourly billing fees.

NRSI accepts no responsibility for the implementation of all or any part of this report, unless specifically requested to examine the implementation of such activities recommended herein. Any request for the inspection or supervision of all or part of the implementation shall be made in writing and the details agreed to in writing by both parties.

Assumptions

The Client is hereby notified that where any of the information set out and referenced in this assessment are based on assumptions, facts or information provided to NRSI, NRSI will in no way be responsible for the veracity or accuracy of any such information. Further, the Client acknowledges and agrees that NRSI has, for the purposes of preparing their assessment, assumed that the Property is in full compliance with all applicable federal, provincial, municipal and local statutes, regulations, by-laws, guidelines and other related laws. NRSI explicitly denies any legal liability for any and all issues with respect to non-compliance with any of the above-referenced statutes, regulations, by-laws, guidelines and laws as it may pertain to or affect the Property.

Restriction of Assessment

The assessment carried out was restricted to the areas as described in this report. NRSI is not legally liable for any other trees except those expressly discussed herein. The conclusions of this assessment do not apply to any areas, trees, or any other property not covered or referenced in this assessment.

Professional Responsibility

In carrying out this assessment, NRSI and any Assessor appointed for and on behalf of NRSI to perform and carry out the assessment has exercised a reasonable standard of care, skill and diligence. The assessment has been made using accepted arboricultural techniques. These include a visual examination of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, discolored foliage (during the leaf-on period), the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the current or planned proximity of property and people. Except where specifically noted in the assessment, none of the trees examined on the property were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

No guarantees are offered, or implied, that trees recommended for retention, or all parts of them, will remain standing. It is professionally impossible to predict with absolute certainty the behaviour of any single tree or group of trees, or all their component parts, in all given circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential to fall, lean, or otherwise pose a danger to property and persons in the event of extreme weather conditions, and this risk can only be eliminated if the tree is removed.

Without limiting the foregoing, no liability is assumed by NRSI or its directors, officers, employers, contractors, agents or Assessors for:

- a) Any legal description provided with respect to the Property;
- b) Issues of title and/or ownership with respect to the Property;
- c) The accuracy of the Property line locations or boundaries with respect to the Property; and
- d) The accuracy of any other information provided to NRSI by the Client or third parties;
- e) Any consequential loss, injury or damages suffered by the Client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and,
- f) The unauthorized distribution of the assessment.

Third Party Liability

This assessment was prepared by NRSI for the Client. The data collected reflect NRSI's best assessment of the inventoried trees situated on the Property with the information available at the time of observation. Data analysis and the assessment of potential impacts to inventoried trees is specific to the proposed undertaking as described in this report. NRSI accepts no responsibility for any damages or loss suffered by any third party or by the Client as a result of decisions made or actions based upon the use of this assessment for purposes unrelated to the proposed undertaking.

General

Any plans and/or illustrations in this assessment are included only to help the Client visualize the issues in this assessment and shall not be relied upon for any other purpose.

This report shall be considered as a whole, no sections are severable, and the assessment shall be considered incomplete if any pages are missing.

Appendix IV

Tree Data and Summary Tables

Summary of Inventoried Trees

Common Name	Scientific Name	Excellent	Good	Fair	Poor	Very Poor	Dead	Overall Total
Native Species								
American Basswood	<i>Tilia americana</i>		3	18	4			25
American Elm	<i>Ulmus americana</i>			11				11
Balsam Fir	<i>Abies balsamea</i>	1	2					3
Black Walnut	<i>Juglans nigra</i>		4	2	1		1	8
Bur Oak	<i>Quercus macrocarpa</i>		1	1				2
Common Hackberry	<i>Celtis occidentalis</i>		1					1
Eastern Cottonwood	<i>Populus deltoides</i>		5	5				10
Eastern Red Cedar	<i>Juniperus virginiana</i>		5	1				6
Eastern White Cedar	<i>Thuja occidentalis</i>		18	15	5			38
Eastern White Pine	<i>Pinus strobus</i>	1	40	33	2	2	4	82
Freeman's Maple	<i>Acer x freemanii</i>		4	8				12
Green Ash	<i>Fraxinus pennsylvanica</i>		3	16	42	20	2	83
Manitoba Maple	<i>Acer negundo</i>		9	69	10	10	1	99
Northern Red Oak	<i>Quercus rubra</i>		4				1	5
Paper Birch	<i>Betula papyrifera</i>			1				1
Red Maple	<i>Acer rubrum</i>			1				1
Red Pine	<i>Pinus resinosa</i>		1	1				2
Silver Maple	<i>Acer saccharinum</i>			1				1
Sugar Maple	<i>Acer saccharum</i>		8	3				11
White Ash	<i>Fraxinus americana</i>		3	21	17	31	11	83
White Spruce	<i>Picea glauca</i>	1	32	9				42
Willow sp.	<i>Salix sp.</i>		7	6				13
Total		3	150	222	81	63	20	539
Non-native Species								
Amur Corktree	<i>Phellodendron amurense</i>		15	2				17
Black Locust	<i>Robinia pseudoacacia</i>		3	5	1			9
Black Pine	<i>Pinus nigra</i>		4	3			1	8
Blue Spruce	<i>Picea pungens</i>		5	2				7
Common Apple	<i>Malus pumila</i>			26	26	11		63
European Larch	<i>Larix decidua</i>		4	3				7
Hawthorn sp.	<i>Crataegus sp.</i>		1	3				4
Little-leaf Linden	<i>Tilia cordata</i>		18	12				30

Common Name	Scientific Name	Excellent	Good	Fair	Poor	Very Poor	Dead	Overall Total
Maiden-hair Tree	<i>Ginkgo biloba</i>		1					1
Northern Catalpa	<i>Catalpa speciosa</i>			1				1
Norway Maple	<i>Acer platanoides</i>		28	68	5		1	102
Norway Spruce	<i>Picea abies</i>	2	15	11				28
Ohio Buckeye	<i>Aesculus glabra</i>		1	3				4
Scots Pine	<i>Pinus sylvestris</i>		5	7				12
Siberian Elm	<i>Ulmus pumila</i>		3	11	5	1	4	24
Sweet Cherry	<i>Prunus avium</i>			5				5
Thornless Honey Locust	<i>Gleditsia triacanthos var. inermis</i>		10	4				14
Washington Hawthorn	<i>Crataegus phaenopyrum</i>		1					1
White Mulberry	<i>Morus alba</i>				1			1
Total		2	114	166	38	12	6	338
Grand Total		5	264	388	119	75	26	877

Overall Condition of Trees Inventoried

Potential for Structural Failure Rating	Overall Condition						Total
	Excellent	Good	Fair	Poor	Very Poor	Dead	
Improbable	5	263	333	17	4	0	622
Possible	0	1	48	73	32	14	168
Probable	0	0	7	29	39	10	85
Imminent	0	0	0	0	0	2	2
Total	5	264	388	119	75	26	877

Maps

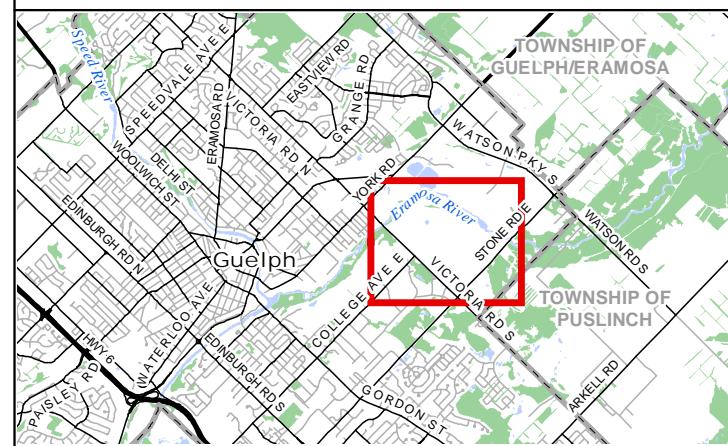
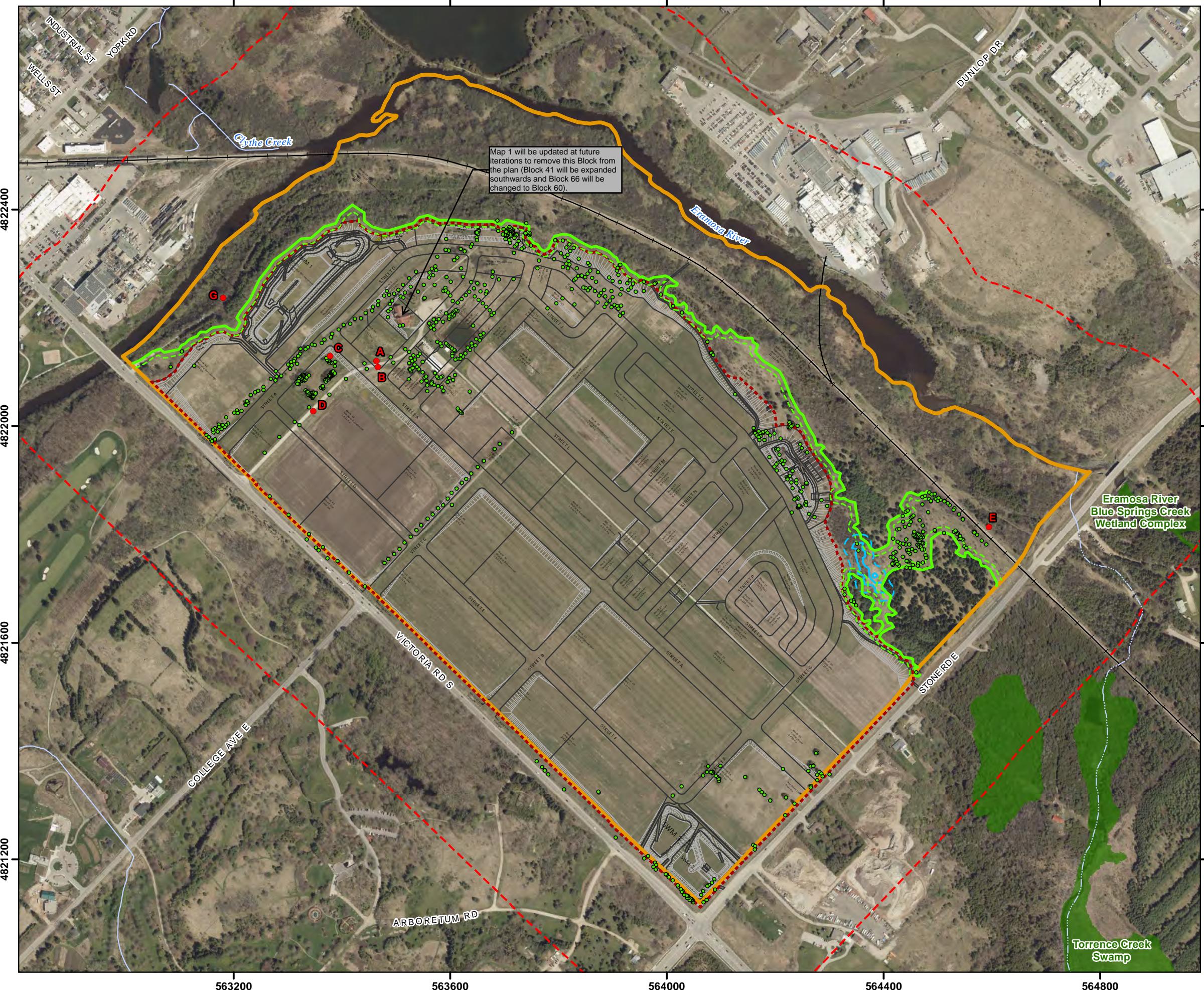
Map 1. Subject Property and Natural Features

Map 2a-2d. Tree Inventory and Preservation Plan

Map 1

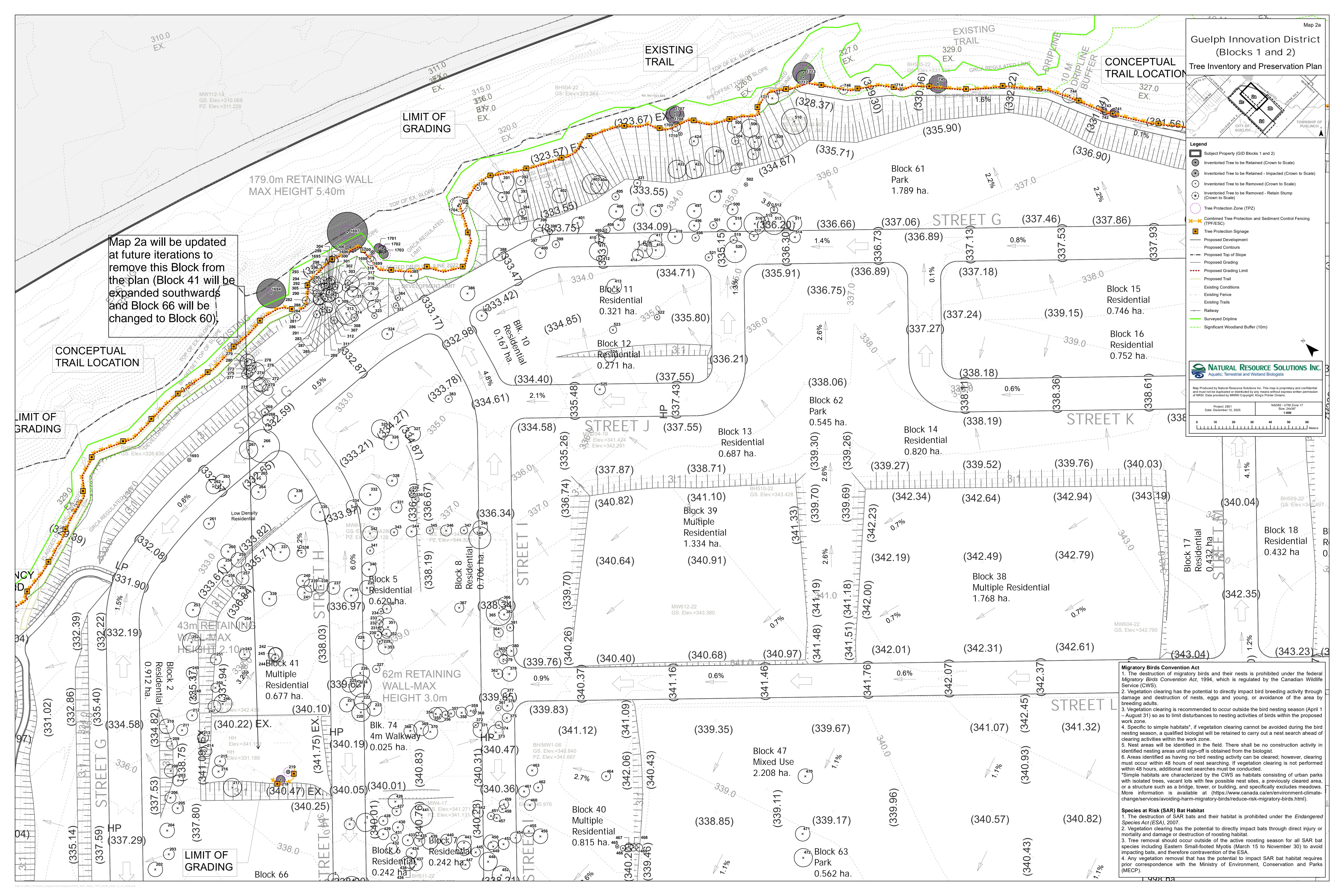
Guelph Innovation District (Blocks 1 and 2)

Subject Property and Natural Features



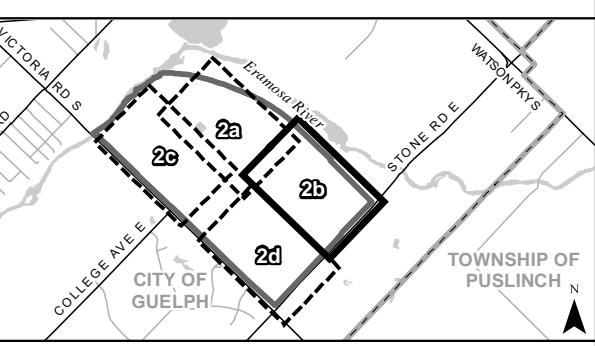
Legend

- Study Area (240m)
- Subject Property (GID Blocks 1 and 2)
- Proposed Grading Limit
- Proposed Concept Plan
- Proposed Grading
- Proposed Trail
- Inventoried Tree
- Candidate Bat Roost Tree
- Railway
- Permanent Watercourse
- Intermittent Watercourse
- Surveyed Dripline
- Significant Woodland Buffer (10m)
- Other Wetland (GRCA Confirmed July 14, 2022)
- Other Wetland (15m)
- Provincially Significant Wetland (PSW)



Guelph Innovation District (Blocks 1 and 2)

Tree Inventory and Preservation Plan



Legend

- Subject Property (GID Blocks 1 and 2)
- Inventoried Tree to be Retained (Crown to Scale)
- Inventoried Tree to be Retained - Impacted (Crown to Scale)
- Inventoried Tree to be Removed (Crown to Scale)
- Inventoried Tree to be Removed - Retain Stump (Crown to Scale)
- Candidate Bat Roost Tree
- Tree Protection Zone (TPZ)
- Combined Tree Protection and Sediment Control Fencing (TPF/ESC)
- Tre Protection Signage
- Proposed Development
- Proposed Contours
- Proposed Slope
- Proposed Grading
- Proposed Grading Limit
- Proposed Trail
- Existing Trails
- Road
- Railway
- Surveyed Dripline
- Significant Woodland Buffer (10m)
- Other Wetland Buffer (15m)
- Other Wetland (GRCA Confirmed July 14, 2022)

NATURAL RESOURCE SOLUTIONS INC.
Aquatic, Terrestrial and Wetland Biologists

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Project: 2861
Date: December 12, 2025
NAD83 - UTM Zone 17
Size: 24x36' 1:800

0 10 20 30 40 50 60 Meters

(326.64) EX.
STONE ROAD
GRCA REGULATED LIMIT

(330.22) EX.

(326.44) EX.

(330.00) EX.

