Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

Project File Appendices

City of Mississauga

60620028

February 2024

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Appendices

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AECOM

Appendix A

Stormwater Management Report – Conceptual Design

Malton Flood Cluster 6 Stormwater Management Report – Conceptual Design

City of Mississauga

March, 2021

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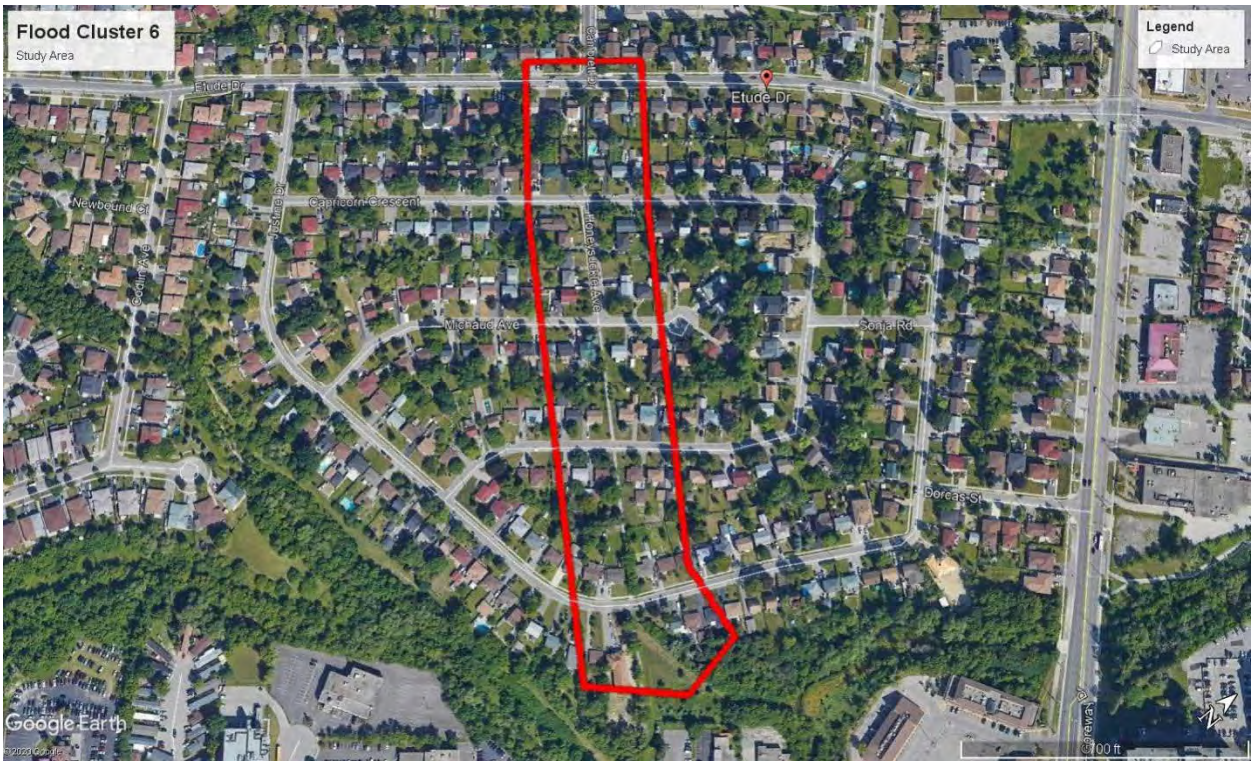
Executive Summary

The City of Mississauga (City) experienced flooding during the July 8th, 2013 storm, particularily within the Malton area. A study of flooding in Malton was undertaken by Matrix Solutions Inc. (Matrix) for the Toronto and Region Conservation Authority (TRCA). Matrix developed a PCSWMM model simulating the hydrology and overland hydraulics of the area to determine where the main flooding problems were. Nine inundated areas were identified to be further investigated. The City has engaged AECOM Canada Ltd (AECOM) to undertake an Environemntal Assessment (EA), Schedule B for Flood Cluster 6, which will result in a flood mitigation plan for the area. Once complete, detailed design will follow. This study involves the investigation and conceptual design for Flood Cluster 6, as identified in the Matrix Report.

Flood Cluster 6 encompasses the pedestrian pathway from Etude Drive to Capricorn Crescent, Honeysuckle Drive, and the pedestrian pathway from Michaud Avenue to Justine Drive. The study area is shown in **Figure 1**. This pathway is situated at the topographical low point of the subdivision, receiving major and minor flows from the north, east and west, discharging to Mimico Creek downstream. However, engineering drawings show that the pathway was not designed as an overland flow route, with a cross-section not able to properly convey flow.

Figure 1. Study Area



The Matrix PCSWMM model was truncated to eliminate any areas not relevant to Flood Cluster 6. The existing storm sewer network throughout the study area and upstream was added to the model, as referenced from engineering drawings. Subcatchments and rain gauges were adjusted to include the minor system, and storm sewer inlets were added connecting the minor system to the overland surface.

Existing Conditions

The existing conditions model was run for all storm events and the major and minor systems through the study area were analysed. It was found that the existing minor system is able to capture and convey up to the 2-year event.

During a 2-year storm the model results show that nine houses would be impacted by flooding, indicating that the current major system has less than a 2-year capacity.

During a 100-year event the minor system would surcharge and spill, and overland flow would spread to houses adjacent to the pathway. The model results show that during a 100-year event 37 houses would be impacted.

The capacity of the existing major and minor systems as compared to the 100-year flowrate (required capacity) was determined. The combined capacity of the existing major and minor system is approximately 8.2 m^3/s, and the peak flowrate of a 100-year event is 16.6 m^3/s. This indicates that an additional 8.4 m^3/s capacity is required to properly convey the existing 100-year flows from the study area, or other measures, likely in combination, be applied to alleviate the flooding.

Evaluation of Alternatives

All possible alternatives to reduce or eliminate flooding were explored, including source point measures, conveyance measures and storage measures. Locations for potential solutions were focused on City property including public right-of-ways.

A “long list” of eleven possible measures was created and evaluated against the following criteria:

- Constructability / Proximity to problem area
- Complexity of obtaining permits and approvals
- Natural Environment (tree and vegetation removal and/or damage)
- Socio-Economic Impacts (disruption to community, including travelling public)
- Potential Construction Cost

Several of the long list measures were eliminated based on the above criteria, and a “short list” was created combining measures remaining from the long list. Some modelling and calculations were done to estimate proposed sizes, dimensions and flows, and high-level costing was completed for each of the five proposed solutions. See **Table 1** below for the short list of alternatives and the advantages and disadvantages of each. Cost breakdowns are in **Appendix E**.

Table 1: Short List Evaluation

Alt.	Solution	# Houses flooded during 100yr	100yr STM Q at Outfall (m^3/s)	Advantages	Disadvantages	High Level Cost Estimates ($ Million)
0	Do Nothing	37	10.3		Risks to safety and property	
1	Replace 1650mm storm sewer with 1.7m x 2.7m box sewer and add inlets. Realign and regrade overland flow path and reconstruct outfall and downstream channel.	4	20.4	This solution will provide significant flood reduction within the study area at a comparatively low cost	High disruption, difficult to mitigate flows at outfall	$8.0
2	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and realign and regrade overland flow route (0.15m deep within existing fences). Reconstruct outfall and downstream channel.	10	12.3	Underground storage would fit within field, flow at outfall should not be much greater than existing, infiltration potential beneath field	High disruption at multiple locations, lack of significant flood reduction, considerable cost	$9.4
3	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and a 0.15m deep bioswale with 115 m^3 of storage beneath at Honeysuckle & Michaud. Reconstruct outfall and downstream channel.	13	12.6	Underground storage would fit within path, flow at outfall shouldn't be much greater than existing, water quality benefits from bioswale, infiltration potential beneath field	High disruption at multiple locations, lack of significant flood reduction, considerable cost	$9.5
4	Add 12,000 m^3 underground storage in Ridgewood Park field, additional inlets and a 0.15m deep bioswale with 180 m^3 storage beneath at Honeysuckle & Michaud	14	10.8	This solution would be more cost effective and less disruptive, with water quality benefits from bioswale and infiltration potential beneath field	Still 14 houses impacted, entire Ridgewood field impacted to provide storage.	$7.3
5	Add 12,000 m^3 underground storage in Ridgewood Park field, additional inlets, 3,600 m^3 underground storage along Etude, Honeysuckle & Michaud, and a realigned overland flow route 0.15m deep and within existing fences.	6	10.3	Significant flood reduction provided, virtually no increase of flow at outfall. infiltration potential beneath field.	To provide significant storage beneath Honeysuckle & Michaud would be very disruptive to a select few residents, and the cost would be considerable	$16.5

Conceptual Preferred Alternative

Due to the considerable flood reduction efficiency, relatively low cost, and centralized location of the proposed improvements, the City has chosen Alternative 1 as their preferred solution. As a result, some additional checks, calculations and modelling was completed to ensure that the design is feasible and won't have significant impacts downstream.

The main constraints of this alternative are the limited space available within the 7.5m-wide City propertyand the existing sanitary sewer that runs within it, adjacent to and lower than the existing storm sewer. Three cross-sections were cut along the City pathway comparing existing features (fences, sanitary sewer, houses, etc.) to the proposed box pipe and construction footprint. Construction would be challenging, but possible.

The other concern with this solution is the increase in flow at the downstream end of the storm sewer. According to the PCSWMM model, flow would increase from 10.3 m^3/s to 20.4 m^3/s. The dowstream impacts to this increase were investigated.

The VO hydrology model and HEC-RAS hydraulic model were obtained from the TRCA for Mimico Creek. TRCA requires that hydrology modelling assume a 12-hour AES storm distribution to model the creek. The 12-hour AES distribution was added to PCSWMM to better compare flows. Since the AES distribution has a lower peak, the proposed flow from the storm sewer is lower than previous modelling showed, at 11.4 m^3/s.

The VO model was updated to reflect the additional flow from the minor system, and run to determine impacts to flows downstream. The model results showed that there would be a fairly minimal impact downstream, where the outfall channel meets the creek. Farther downstream the increase becomes negligible.

These flows were input to the HEC-RAS model, which indicated that there would be a minimal increase near the study area, with insignificant water level increases downstream.

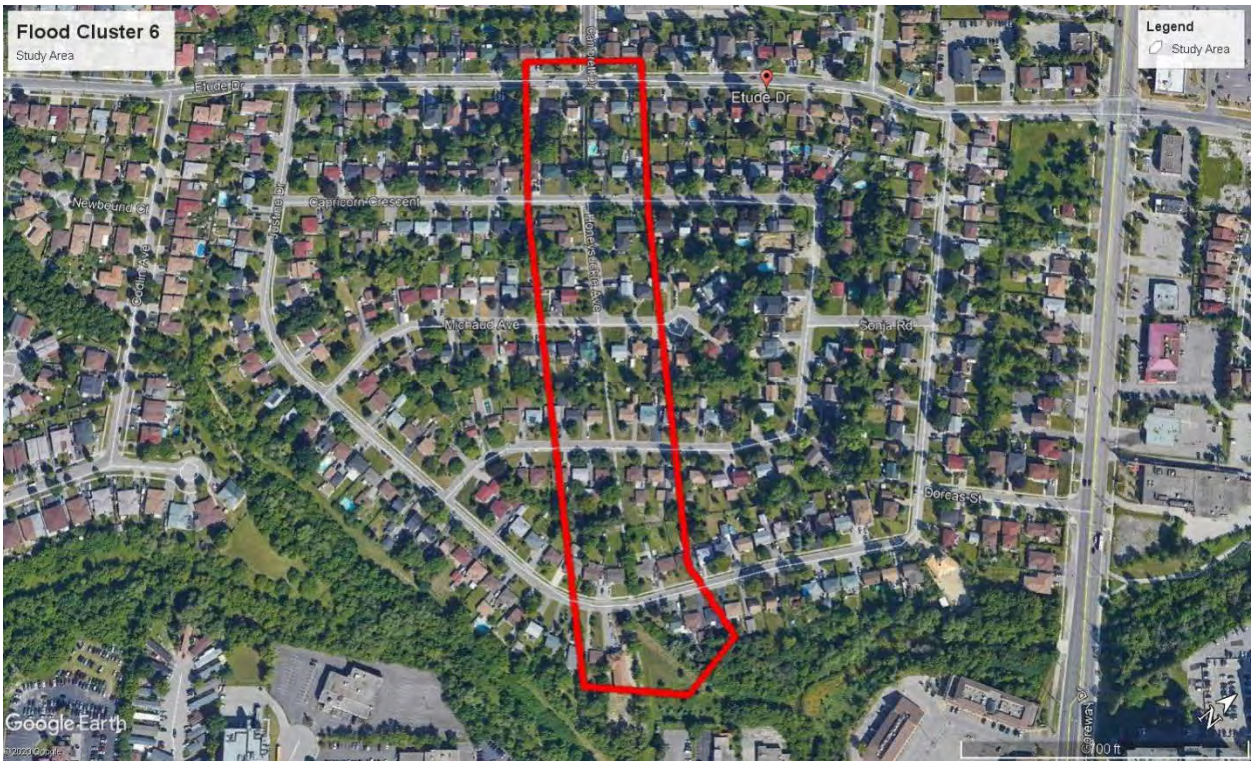
Redesigning and possibly realigning the outfall channel from the storm sewer outfall to Mimico Creek have been explored at a high level, with further investigation to happen during the preliminary design and detailed design stages.

The conceptual preferred solution was presented to the TRCA on September 9, 2020 to obtain their feedback. They were supportive of the proposed design and improvements to the outfall, and will be kept in touch as the project progresses.

1. Introduction

A significant rainfall event inundated the Malton area on July 8th, 2013. As a result of this flooding the Toronto and Region Conservation Authority (TRCA) retained Matrix Solutions Inc. to undertake the Malton Flood Characterization Study, which was completed in 2018, which discussed the existing flood issues within Malton and divided the neighbourhood into clusters for further analysis. AECOM Canada Ltd (AECOM) was retained by the City of Mississauga (City) to complete a municipal Class EA undertaken to complete a flood mitigation plan, including conceptual, preliminary and detailed designs for Malton Flood Cluster 6. Flood Cluster 6 refers to the flooding at the intersection of Michaud Avenue and Honeysuckle Avenue where inundation of private property occurs during storm events. For the purpose of this project, the study area is defined as the overland flow route along a public walkway and Honeysuckle Avenue from Etude Drive to the storm outfall just south of Justine Drive, as shown in **Figure 1.1**.

Figure 1.1. Study Area



1.1 Study Objectives

- Reference drawings and models to obtain information on the study area;
- Create an up-to-date model of the study area based on reference drawings and models to determine extent and severity of existing flooding;
- Produce a short list of 4-5 possible conceptual alternatives to resolve flooding within the study area, attempting to meet the City's design criteria;
- Consult all relevant agencies to ensure their ongoing approval; and
- Evaluate the short list of alternatives and determine the preferred alternative and move forward to a preliminary design.

2. Previous Studies

All the documents reviewed for this project are summarized below:

- Malton Flood Characterization Study (Matrix Solutions Inc. 2018)
  - The TRCA commissioned the Malton Flood Characterization Study by Matrix Solutions in 2018 (Matrix Report). This study includes a fairly detailed 1D-2D PCSWMM model of the entire neighbourhood. The model only included the major system (except for one small area) and made some assumptions to account for the minor. The Matrix Model was obtained and modified for this project.
- City of Mississauga GIS data (storm sewer information, property fabric, utilities)
  - The base plan and utilities plan were obtained from the City in CAD form to determine the alignment of the existing storm sewer system as well as other utilities. Engineering plan and profile drawings were also obtained from the City to determine the ground elevation of manholes and catch basins, the pipe size, the inverts and profiles of the existing storm sewer network.
- Crozier Draft design of overland flow path
  - Following the storm on July 8, 2013, the City had retained Crozier & Associates Consulting Engineers (Crozier) to develop a draft design to improve the overland flow route from Etude Drive to Justine Road along the public walkway.
- City of Mississauga “Paul Coffey Master Plan”
  - The City’s “Paul Coffey Park Master Plan” is nearing completion south of the site and will be taken into consideration for the proposed design.
- City of Mississauga “Erosion Control project for Mimico Creek”
  - The City is in the process of completing an erosion control project for Mimico Creek from Etude Drive to Derry Road to rehabilitate the creek and address some existing erosion issues. Any input from this will be considered for the proposed design.
- Amec “July 8th, 2013 Extreme Rainfall Event Summary & Analysis Report”
  - Amec prepared this report for the TRCA and submitted it in December, 2014.

3. Design Criteria

The following sections outline the Design Criteria applicable to the study area.

3.1 City of Mississauga

City of Mississauga Transportation and Works Department - Development Requirements Manual, effective January 2020:

Overland Flow Routes:

- No building will be inundated by flooding for storms up to and including the 100-year event;
- For arterial roads the depth of water shall not exceed the crown of the road;
- The product of depth of water (m) at the gutter times the velocity of flow (m/s) shall not exceed 0.65 m^2/s; and
- Flow across intersections shall not be permitted for minor storms (generally 10-year storms).

Storm Sewer System

- Storm sewer systems shall be designed to accommodate the 10-year storm.

3.2 Toronto Region Conservation Authority (TRCA)

Toronto Region Conservation Authority Stormwater Management Criteria – Version 1.0, August 2012:

- Visual OTTHYMO model for Mimico Creek used to model with return period peak flows based upon 12-hour AES distribution.

3.3 Ministry of Natural Resources (MNR)

Classification and Inflow Design Flood Criteria Technical Bulletin, Ontario Ministry of Natural Resources, August 2011:

- The Depth Velocity product allow maximum 0.37 m^2/s (2x2 rule) on the roadway

4. Existing Conditions

The existing topography, land use, utilities, and major and minor storm systems were examined along the study area to better understand the historical flooding. The following sections describe features of the study area and any possible explanations for the current storm issues.

4.1 Study Area

4.1.1 Land Use & Topography

The land use of this section of Malton is mainly residential. There are a few small businesses south of the study area on the north side of Derry Road. North of the site there is a public school and open field and playground on the east side of Cambrett Drive.

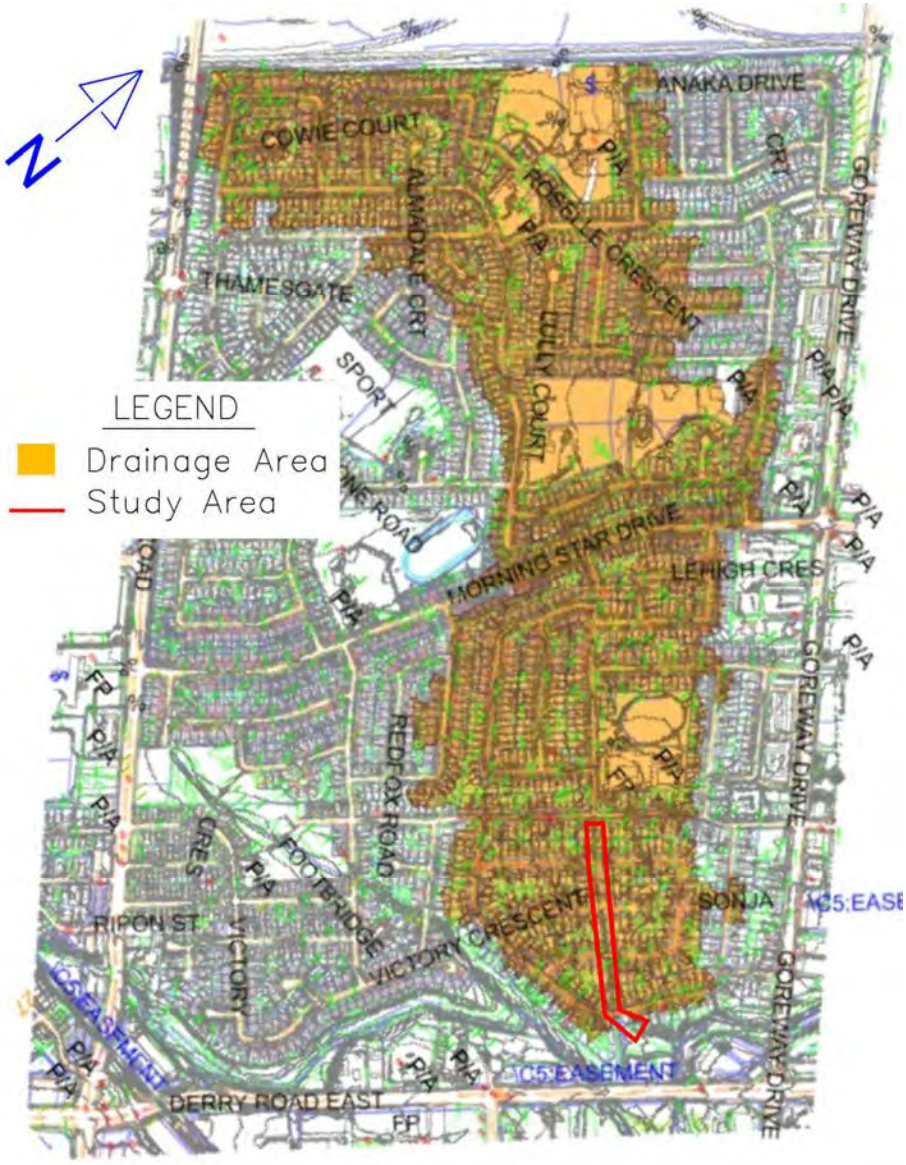
The topography of the study area has a low point down the centre, to which the east and west sides flow. Along this low centre is a pedestrian walkway from Etude Drive to the north end of Capricorn Crescent. where the walkway connects to Honeysuckle Avenue. Two more pathways follow from Michaud Avenue to the south end of Capricorn Crescent, and then to Justine Avenue. As the walkway is within City property, storm and sanitary sewers run beneath.

This pedestrian walkway doesn't appear to have been designed as an overland flow route, however, due to the topography of the neighbourhood it has been acting as one. The location of the walkway, including Honeysuckle Avenue is along the perfect alignment for an overland flow route, however the capacity of this walkway is minimal at best, and clearly was not designed to today's City standards, if any. Whether official or not, the low point has become an overland flow route, and is referred to as such throughout this report.

After the large storm event in 2013, the City retained Crozier & Associates (Crozier) to complete a draft conceptual design of the walkway. The draft design submitted by Crozier in 2014 shows a walkway cross-section with a 5.5m wide and 0.6m deep walkway / overland flow path, which would be able to contain more overland flow than the existing path. The Crozier design remains in draft form and was put on hold as planning was underway at the time for the TRCA Malton Flood Characterization Study, which investigated potential flood impacted areas throughout the entire community.

This study area is located downstream of a much larger major and minor system. There is a significant area north of Etude Drive that flows to this study area, as shown in **Figure 4.1**.

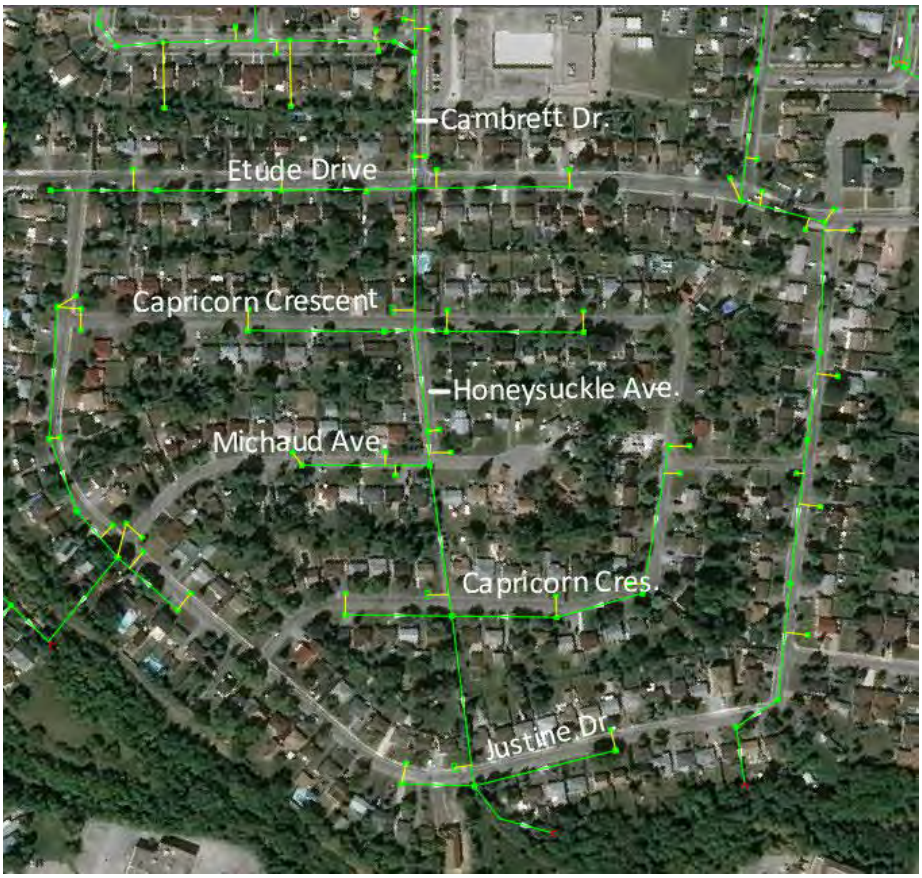
Figure 4.1. Upstream Drainage Area



4.1.2 Storm Sewers

Minor flows within the study area are conveyed by a storm sewer network that mirrors the major system, with a 1650mm diameter trunk storm sewer beneath the study area which outlets just south of Justine Drive. Engineering plan and profile drawings were obtained from the City to determine the details of the minor system. A plan of the storm sewers within the study area are shown below in **Figure 4.2**.

Figure 4.2. Existing Storm Sewers



Minor flows to the study area are significant, and existing modelling by Matrix shows that the 1650mm trunk sewer down the centre of the site only has capacity for a 2-year storm event. Any flow that is not captured or contained by the minor system would then add to the overland flow.

4.1.3 Overland Flow

Currently, major flow is conveyed south along Cambrett Drive to the upstream end of the pedestrian walkway at Etude Drive. Major flow from the east and west sides of Etude also contribute to overland flow along the central flow path. As major flow progresses south along the walkway, additional overland flow is added from the side streets until Justine Drive. From here overland flow is conveyed southeast to a tributary of Mimico Creek (See **Figure 4.3**).

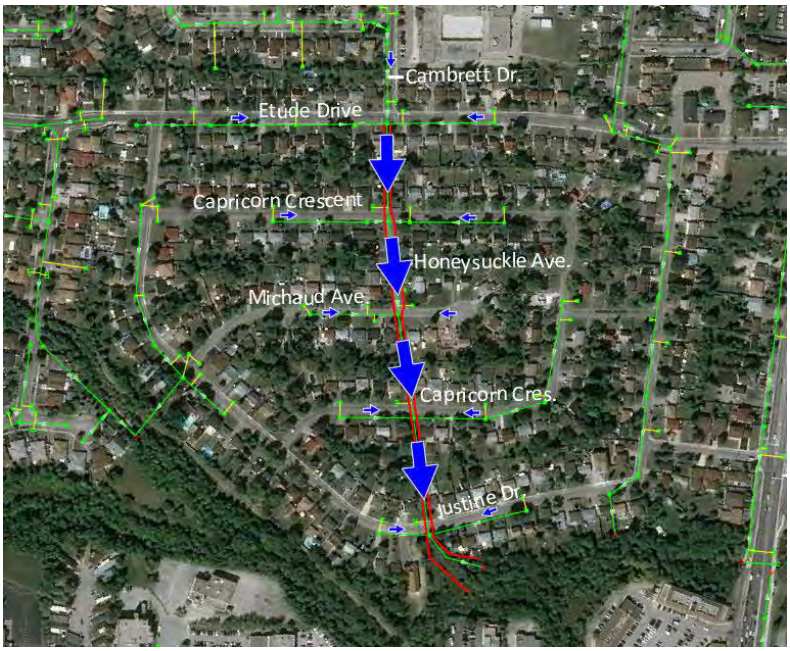
Previous modelling by Matrix shows that the overland flow path from Etude Drive to Justine Drive does not have a consistent slope, resulting in ponding at low points along the pathway, mainly at street crossings. During a large storm event these low points would fill up until they spill downstream, potentially flooding nearby properties.

The cross-section of the existing overland flow path is also a concern. In several locations the pathway is flush with adjacent properties with no defined channel, therefore unable to properly contain and convey flow. Instead, stormwater flows freely as sheet flow across the private properties adjacent to the pedestrian pathway, even with minimal rainfall. Honeysuckle Avenue, which is wider than the pathways and has a curb and gutter to contain flow, does not have the capacity to contain flow during large storm events. This is mainly due to the flat grading of properties of some of the adjacent residents, and the relatively large flowrates.

Based on the information examined for the site and previous modelling results, the volume of major flow during a large storm event compared to the low capacity of the existing major system highlights one of the main drainage problems of the area.

The main overland flow path through the study area is shown in **Figure 4.3** below.

Figure 4.3. Overland Flow Route



4.1.4 Site Visit

A site visit was completed on February 24, 2020 to investigate the overland flow route and determine if the information obtained from the engineering drawings and models is accurate. Google Earth Pro – Street View was also utilized to fully grasp the topography of the area.

Figure 4.4 below shows the upstream end of the pedestrian walkway at Etude Drive. The walkway is flush with the adjacent properties and unable to contain overland flow. The slope of the adjacent properties is almost flat.

Figure 4.5 shows the catchbasins at a crossing street at a depressed location, where the grade slopes up to continue downstream along the walkway. This is where runoff would pond before spilling downstream once deep enough. It makes sense to place catchbasins at a depression as it increases their capture capacity, however, major flow conveyance needs to be considered for large storm events to ensure flooding does not occur.

Figure 4.4. Pedestrian Path Grading

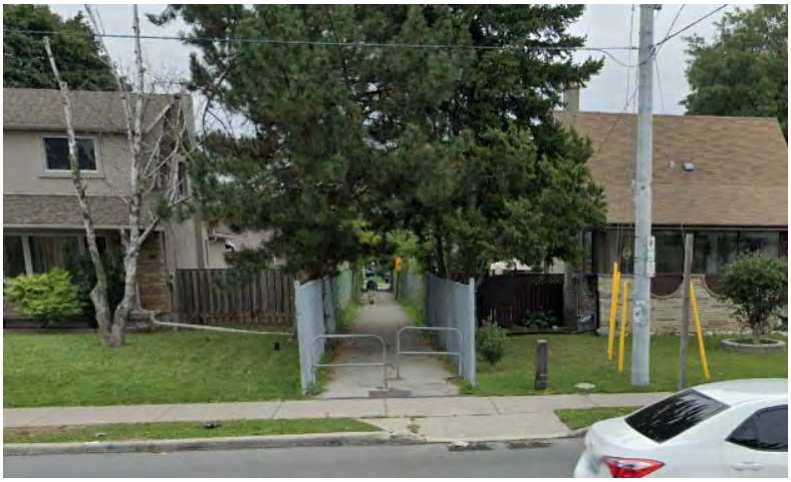


Figure 4.5. Overland Flow Path Depression

Figure 4.6. Path Cross-section

Figure 4.6 shows the fence-lined walkway, which is as narrow as 2.8m, within the City's 7.5m-wide property. The pathway seems to have a slight crown along the centre, with several cracks and local ponding locations.

4.1.5 History of Flooding

There was an intense storm on July 8, 2013 that caused flooding in the area. According to Amec's report for the TRCA, local storm intensities were found to be greater than the 100-year event (for a 6-hour duration), to which City drainage systems are to be designed. The storm damages accentuated the main drainage issues of the area, triggering the TRCA Malton Flood Characterization study. There has been no widespread flooding reported in the area since the July 8, 2013 storm event.

4.2 Previous Modelling

4.2.1 Visual OTTHYMO

A Visual OTTHYMO model was obtained from the TRCA for Mimico Creek. This model was referenced to determine hydrologic parameters for the subcatchments within Malton. The Matrix Report indicates that the original TRCA subcatchment boundaries were to be updated to reflect the latest LiDAR data for the site, however, the differences between the existing boundaries and the updated were too great to align with the scope of that project, and so the subcatchment boundaries were not updated. It should be noted that the modelling done for Flood Cluster 6 furthers the modelling completed for the entire subdivision, with previous assumptions maintained. And so, the subcatchments in the updated PCSWMM model reflect those in the Matrix Model and may not agree with the latest LiDAR data.

4.2.2 HEC-RAS

The HEC-RAS model of Mimico Creek was also obtained from the TRCA. Flows and water levels in the branches of the watercourse within or adjacent to Malton were referenced for all the storm events.

4.2.3 PCSWMM

A PCSWMM model was developed by Matrix Solutions for the entire Malton neighbourhood. The model only included a minor system for a small area of the site, not within our study area. The sections below describe the assumptions and methodologies of the original model, and the modifications that were made by AECOM to customize the model for Flood Cluster 6.

5. PCSWMM Modelling

5.1 Matrix Set up and Assumptions

To properly model the overland flow throughout the Malton area for different storm events, the minor system had to be accounted for, even if it was not to be modelled. Through their calibration / validation process it was found that the general capacity of the minor system was equivalent to a 2-year event. The model was set up with three types of rain gauges for each storm:

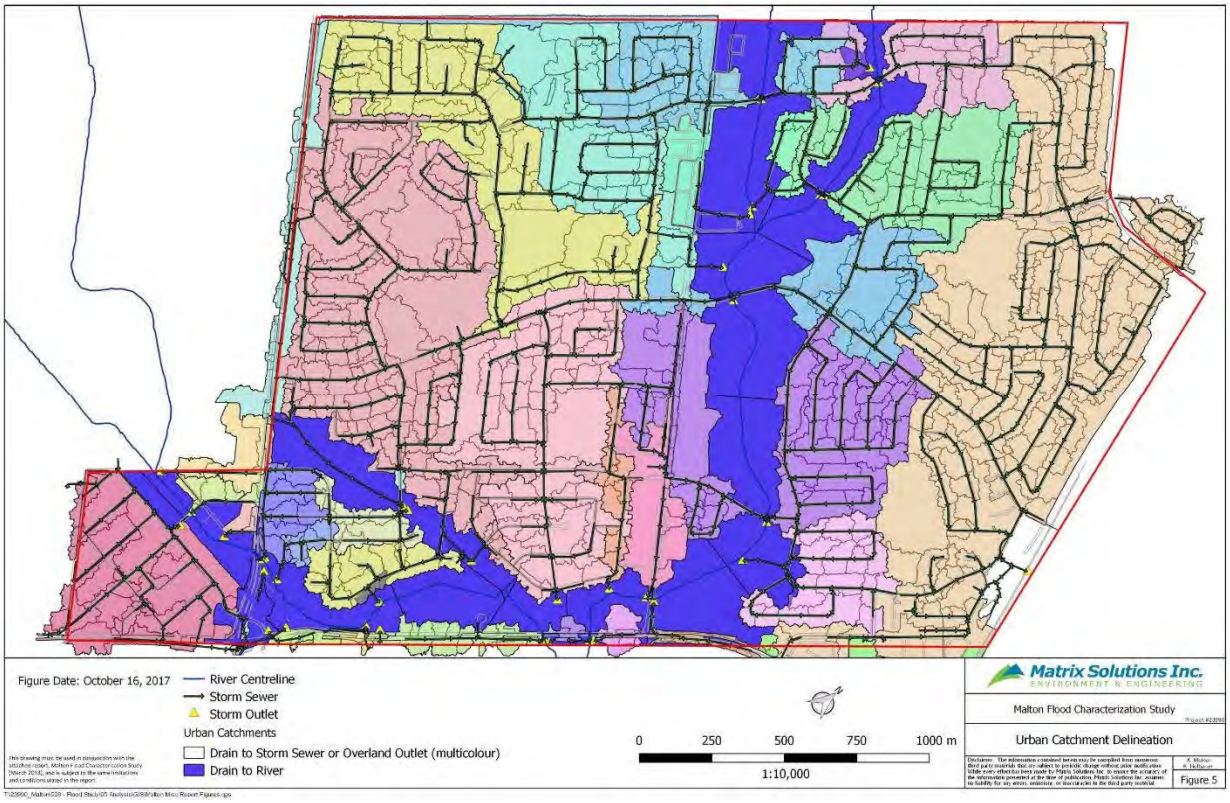
- Storm hydrograph up to the 2-year event intensity;
- Storm hydrograph greater than the 2-year intensity; and
- Entire storm hydrograph.

Subcatchments were delineated to overland flow points across the study area. If the subcatchments contained a minor system then the rain gauge selected was the storm hydrograph greater than the 2-year event, assuming the 2-year event would be captured by the minor system and everything greater than that would be conveyed overland. Urban catchments generating runoff for storms greater than the 2-year event are shown in **Figure 5.1** in a variety of colours.

The 2-year event was not included in the major system hydrograph but couldn't be excluded completely, and so larger urban subcatchments (shown in **Figure 5.1** by colour) were delineated representing minor system networks with the outlets located at the storm sewer outlets to the watercourse downstream. These subcatchments (which overlap the previously mentioned ones) had rain gauges set up to the 2-year event and represent the minor system outfall flow. The two sets of urban subcatchments combine to represent the entire rainfall event.

For areas draining directly to a watercourse, riverine subcatchments were delineated and assigned the rain gauge representing the entire storm hydrograph, since there would be no major / minor split (shown below in purple). Subcatchments with these hydrographs don't overlap any other subcatchments.

Figure 5.1. Matrix Subcatchments



*(Reference: **Figure 5.1** from Matrix's Report)*

Subcatchments representing overland flow across the study area was connected to 2D nodes representing ground surface elevations at local low points. Subcatchments representing the entire rainfall or up to the 2-year event were connected to an outfall point along the downstream watercourse.

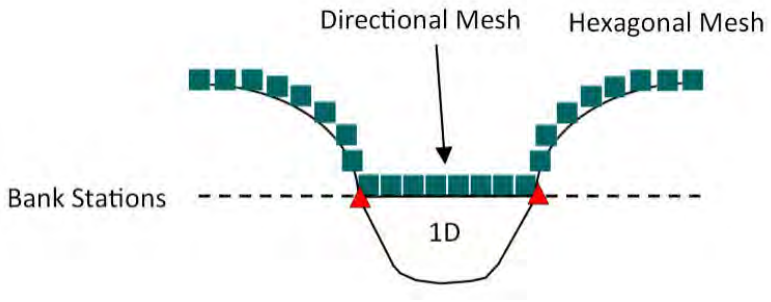
The watercourses in the model had inflow hydrographs at eleven locations for each storm event. These inflows were referenced from the HEC-RAS model to represent watercourse flows for each storm. There were two versions of the hydrographs, one represents the flow over time with an arced shape, whereas the other represents the peak flow and has a steep incline to the peak which is then maintained for the duration of the event. The peak flow version is conservative as it would add the peak flows in the watercourse for the storm event to the overland peak flows, not accounting for any attenuation.

Storm inflow and infiltration into the sanitary system was discussed in the Matrix Report, with peak inflows determined for each sanitary manhole for each storm event, however, this small amount of stormwater was not removed from the updated model for various reasons. Firstly, the relative peak flowrate of the sanitary inflow and infiltration is insignificant compared to the stormwater flow. For example, the 100-year inflow of the storm manhole located at the south branch of Capricorn Cres. along the overland flow path is 9.5 m^3/s. The peak inflow for the adjacent sanitary manhole is between 5.0 and 6.0 L/s., 0.06%. Secondly, to create a hydrograph for each sanitary manhole within the study area for each storm to model the inflow / infiltration in PCSWMM would be somewhat time consuming. And lastly, the proposed design should reduce the overland flow depths significantly, therefore reducing the sanitary inflow. And so, the proposed design results will not be impacted by the sanitary inflow.

The 2D mesh was generated across the entire subdivision to model overland flow. It considered existing structures and was set up around buildings, not within them. Hexagonal cells were used for overland flow in most locations, and tighter knit rectangular (directional) mesh was used for watercourses to properly model flow within defined channels.

The watercourses were set up as 1D, using PCSWMM channels to model flow, and then the 2D rectangular cells were set up on top to represent any flow that is not contained by, or spills from, the watercourse banks. **Figure 5.2** below shows a sketch of the 1D – 2D set up for the riverine system, referenced from the Matrix Report.

Figure 5.2. PCSWMM 1D-2D



5.2 Model Results

The Matrix Model was run for all storm events, from the 2-year to 100-year, as well as the Regional Storm and July 8th, 2013 event. The results show that there is some flooding during even small storm events, whereas the large storm events result in significant inundation of numerous homes. **Figures 5.3** and **5.4** below show the flooding impacts of a 10-year event and 100-year event for the study area, respectively, as per the Matrix Report.

Figure 5.3. Matrix Results: Flooding for 10-year event

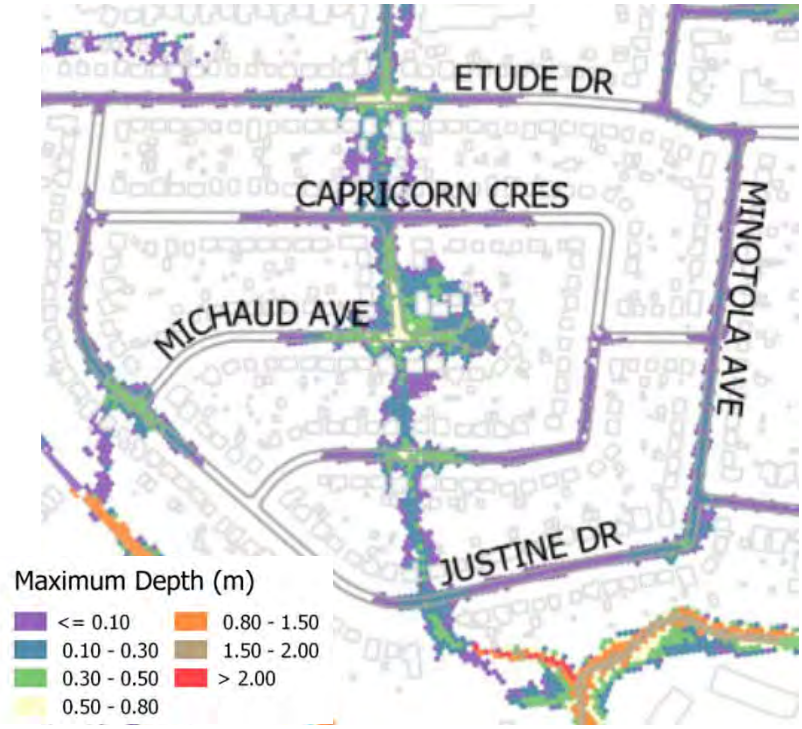
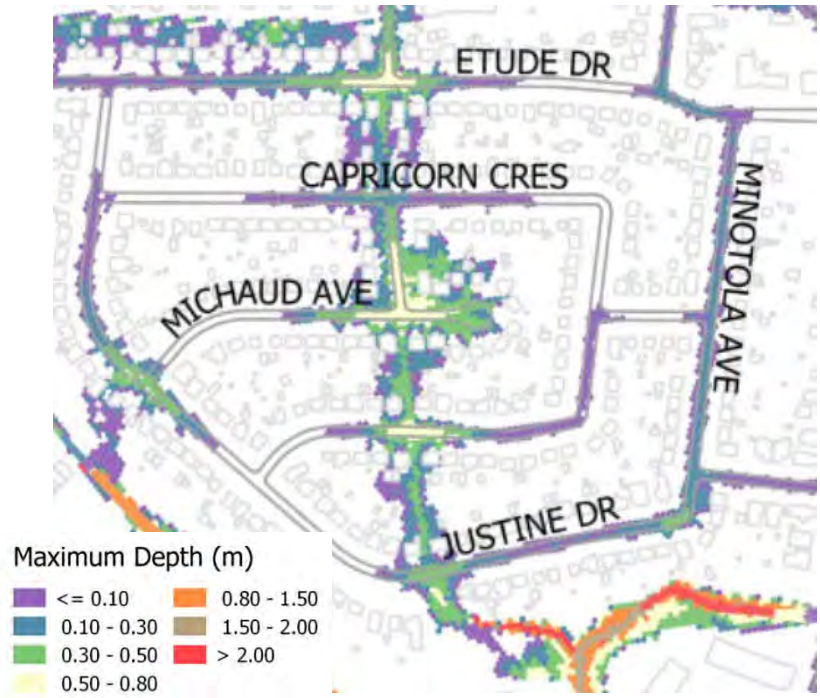


Figure 5.4. Matrix Results: Flooding for 100-year event



The Matrix Model output illustrates significant inundation for even a 10-year event. The stormwater footprints and depths do not meet the current City of Mississauga standards, and any significant storm event could put properties and safety of the residents at risk.

The flooding from the Regional and July 8th events are shown below in **Figures 5.5** and **5.6**. The modelling output for these events shows similar flooding footprints and depths to the 100-year storm.

Figure 5.5. Matrix Results: Flooding for Regional event

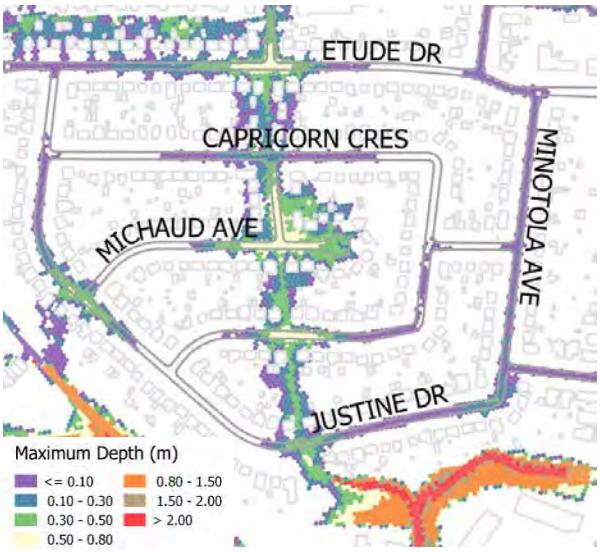
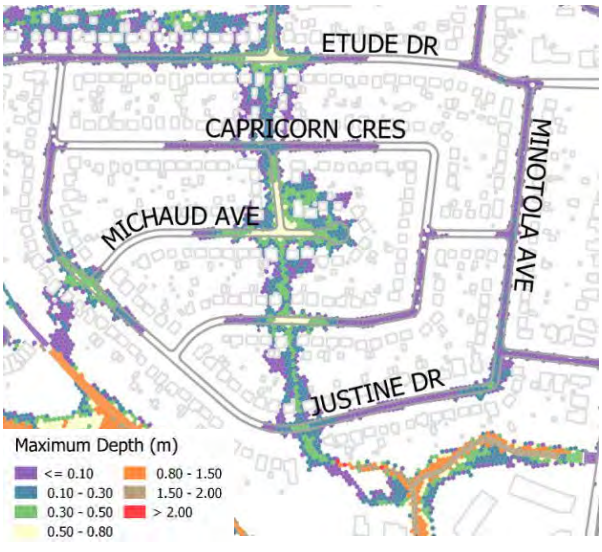


Figure 5.6. Matrix Results: Flooding for July 8th event



5.3 Model Modifications

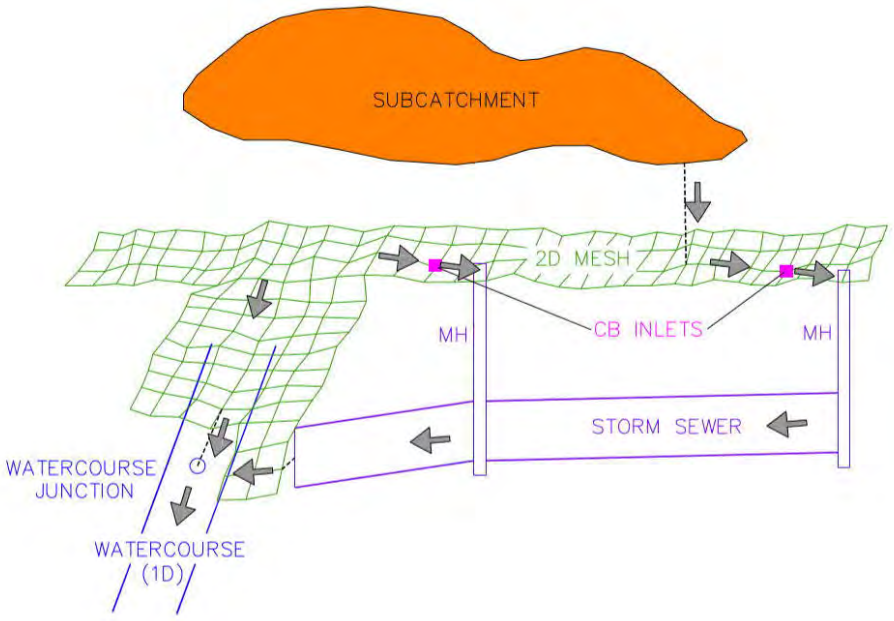
The PCSWMM Matrix Model was updated by AECOM to focus on Flood Cluster 6. As the run time of the Matrix Model was over fourteen hours, the model was truncated, eliminating sections that do not impact the study area to increase efficiency. The difficulty is that with both an urban and riverine system, it's challenging to separate one sections from another. It may not be apparent if one section has an impact on another. As such, only areas that were certain to not impact the study area were removed from the model. The entire riverine system connected to the downstream tributary remained, as did everything that drained to it. Downstream creek levels could impact conveyance of major and minor systems in our study area.

The timestep of the model was also increased from 0.25 seconds to 0.5 seconds. This may still seem quite low but with a model this complex it's important to maintain accuracy. It was also important not to deviate too far from the Matrix Model, as its results had been calibrated and validated.

The major change to the updated model is the addition of the minor system throughout the study area as well as upstream. Engineering drawings from the City of Mississauga were referenced to construct storm sewers, manholes and inlets into the model. Google Earth was also consulted for the location of catch basins, as the CAD drawings from the City were not always accurate. Storm sewers upstream of the study area were also input into the model, but not necessarily the entirety of every branch. The proper number of inlets were included to ensure flow capture accuracy, but in longer upstream storm sewer branches the very upstream end may have been omitted, as including it would have an insignificant impact on downstream results.

The minor system was connected to the 2D mesh by means of the catch basin inlets throughout the urban system. The inlet characteristics were input as they were in the Matrix Model. The only difference was that the inlet offset was set to zero to better model the relation from the inlet grate to the ground surface. Along the riverine system, the 2D mesh is connected directly to the junctions along the watercourse to allow inflow and spilling. **Figure 5.7** illustrates the connectivity of the model.

Figure 5.7. Model Schematic



Other features from the original model, such as riverine inflow hydrographs, were maintained.

The July 8th, 2013 storm was set up in the model for the watercourse inflows. Steady-state flows were maintained but updated for the July 8th peak. Rain gages were also updated for the July 8th storm. The main difference in this storm is that it encompasses two rainfall events back to back with a short dry spell between. The entire event is over 31

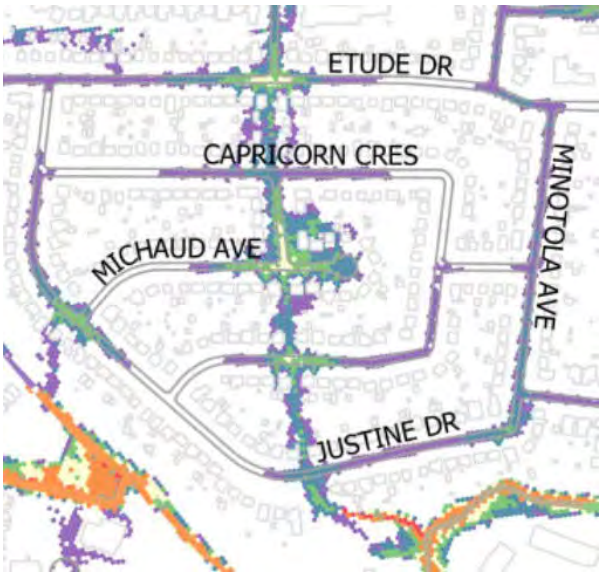
hours long, whereas the 2-year to 100-year events have a 4-hour duration, and the Regional event has a 12-hour duration. The timestep was increased to 1 second for this event, only to decrease the run time.

5.4 Results / Comparison to Matrix

The updated model results were quite similar to the Matrix results, which was to be expected. Flooding occurred at the same locations within the study area as the Matrix Model and approximately to the same extent. **Figures 5.8** and **5.9** below compare inundation results for the two model versions for the 10-year and 100-year events.

Figure 5.8. Comparison – Model results: 10-year event

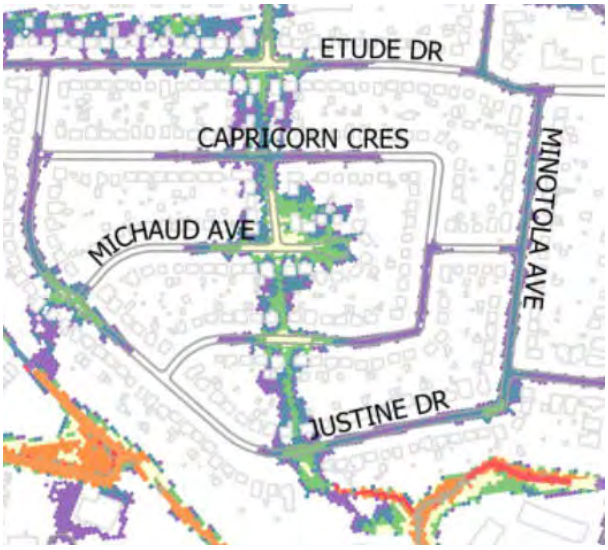
Matrix Results



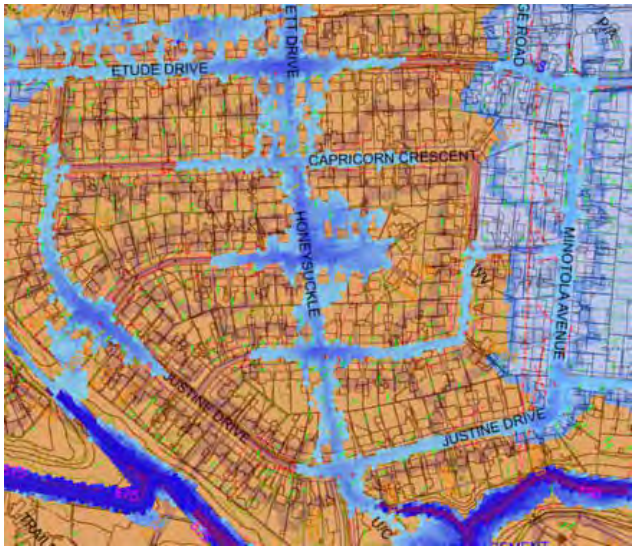
AECOM Results

Figure 5.9. Comparison – Model results: 100-year event

Matrix Results

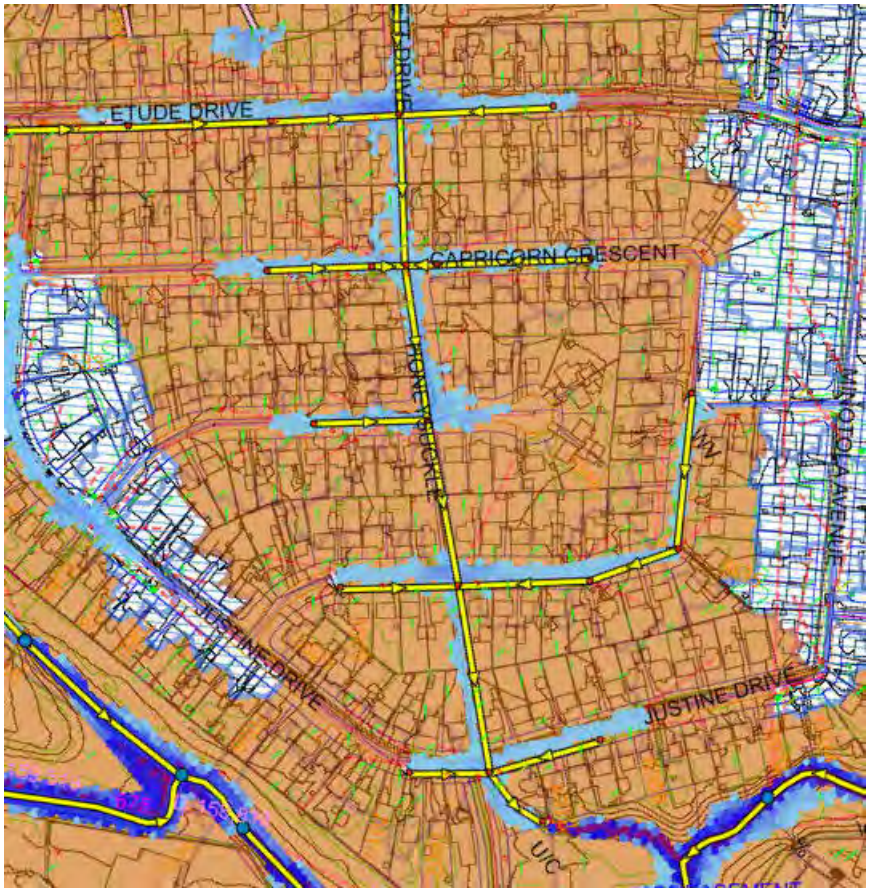


AECOM Results



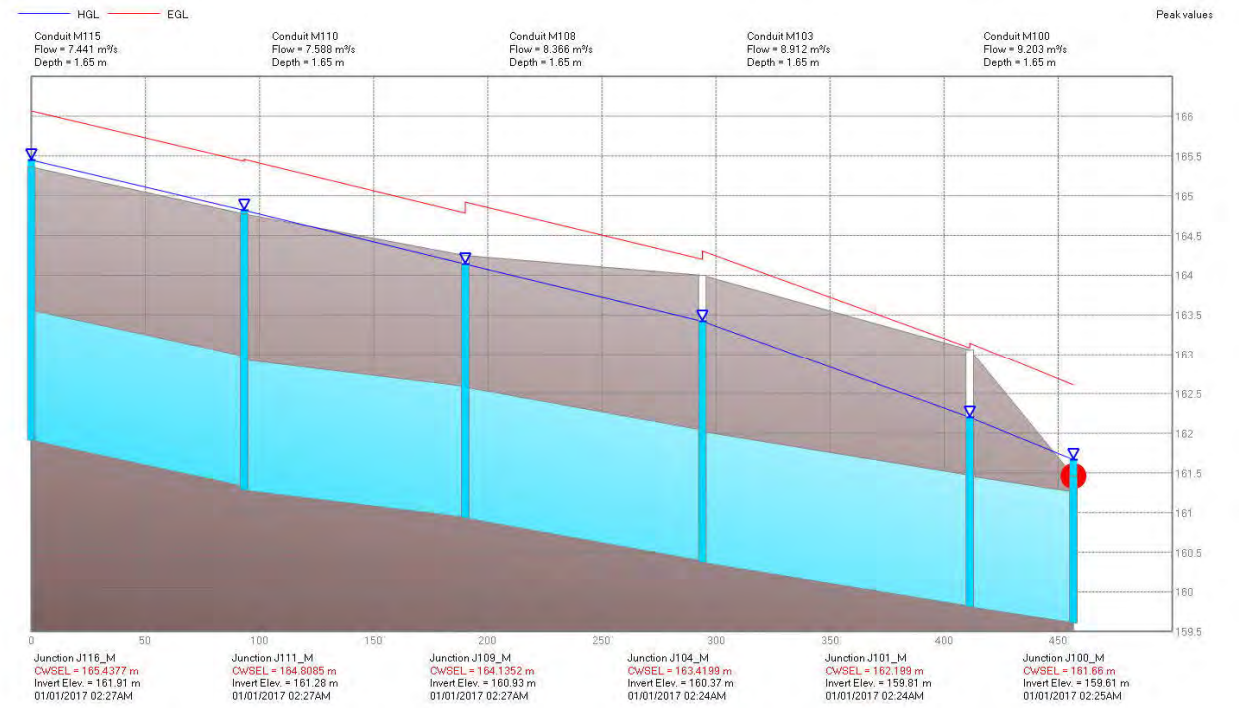
The 2-year event was modelled to determine if the existing major / minor systems could contain the flow. The overland flow impacts of a 2-year event seem to be mostly contained by the current overland flow infrastructure for the majority of the study area, shown in **Figure 5.10** below, although some houses would still be impacted.

Figure 5.10. Existing Major Flow during 2-year event



The minor system was able to be analysed in the updated model, allowing a closer look at inflows, duration of surcharge and volume of spill for different sections of sewer. The Matrix Model had assumed that the minor system of the entire neighbourhood could only capture and convey up to the 2-year event. The profile of the 1650mm storm trunk was examined during a 2-year event with the results shown in **Figure 5.11** below.

Figure 5.11. Existing Storm Trunk during 2-year event



As shown above, the minor system is not simply at capacity, but completely surcharged during a 2-year event. Any event larger than a 2-year will result in all additional runoff flowing overland to the outfall. This confirms the minor system capacity assumptions made in the Matrix report.

The houses on the north side of Etude Drive, west of Cambrett Drive are shown as impacted in the existing models. The models show the source of this flooding coming from Reindeer Drive to the west. Reindeer Drive has a low point with no overland flow path downstream, and so in large storm events that low point spills across private property on the southeast corner of the street and floods the backyards along Etude Drive, as shown in **Figure 5.12**. The lower backyards allow stormwater to pond and then spill towards Etude Drive, impacting houses. These houses were not included in the tally for impacted houses in the study area as the source of the flooding stems from Reindeer Drive which is in Flood Cluster 7. It is recommended that this flooding be resolved as part of that future study.

Figure 5.12. Flooding from Reindeer Drive

5.5 Flow and Capacity Requirements

The existing model results show that the existing infrastructure is only able to contain a 2-year event. According to City's design criteria, both the major and minor systems should capture and convey runoff generated from a 100-year storm. It is understood that the existing drainage system is undersized, and so the next step was to determine what the total 100-year flowrate is.

A simplified model was set up to capture all the runoff generated from a 100-year event along the study area. An oversized pipe placed in the model was used to simulate the maximum conveyance to the outfall. The peak flow along that pipe represents the total existing flow that the major and minor systems should be sized for.

The simplified model results show that the total peak flowrate is 16.6 m^3/s. The existing minor system can convey 7.5 to 9.0 m^3/s when completely surcharged, and the major system (before spilling to adjacent properties) can convey 0.0 – 0.5 m^3/s. It was conservatively assumed that the existing infrastructure can convey 8.2 m^3/s, which is only half of the 100-year peak flow.

5.6 Summary of Existing Conditions

The drainage for the study area includes a minor system, which conveys flow along a 1650mm diameter trunk storm sewer that runs along City property from Etude Drive to Justine Drive and then outlets south of Justine to a tributary of Mimico Creek.

It doesn't appear that an overland flow path was designed for this study area, however, the City pedestrian pathway is acting as an overland flow route as it runs along the topographical low point of the study area. The fact that it was not designed as such means that the inconsistent slope and almost flat cross-section are not able to contain the required flows.

The Matrix Model estimated that the minor system was able to capture and convey up to a 2-year storm. This was confirmed with AECOM's updated model which added the minor system for the study area and upstream to the model. For larger storm events the model shows the minor system surcharging and then spilling to the overland flow system, as expected.

In all storm events the water elevations in Mimico Creek have some backwater effects on the storm sewer system.

The model output shows that during a 100-year event 37 houses within the study area would be impacted (meaning that flood waters appear to have contact with the residential structures), and during a 2-year event 9 houses would be impacted.

Key findings

- The combined capacity of the existing major and minor system is approximately 8.2 m^3/s; and
- The peak flowrate of a 100-year event is 16.6 m^3/s.

Constraints

- Along the walkway portion of the City's property, the width of the property is 7.5 m; and
- A sanitary sewer runs beneath the City property adjacent to the storm sewer, only slightly deeper.

6. Evaluation of Alternatives

Initially, every possible type of mitigation measure was considered as a potential solution for the current flooding problems. This includes source control, conveyance and storage measures as well as LID options. The sections below will discuss in further detail all the options considered and evaluated to address the flooding concerns within the study area, and which were contenders carried forward to the long list of solutions.

6.1 Mitigation Considerations

The following sections describe the mitigation measures considered to solve the flooding problems, several of which were eliminated for various reasons. A brief explanation is provided as to why some options were carried forward for the long list and others were eliminated.

6.1.1 Source Control Measures

Rain barrels

Rain barrels are a great way to retain stormwater for reuse, for lawncare and gardening, which also benefit storm systems by lowering peak flows from properties. However beneficial, rain barrels were not included on the long list of possible alternatives since they would be utilized on private property, so the City would not be able to maintain their efficiency. The impact of such a small volume of retention would also not be enough to reduce the flooding concerns.

Disconnect downspouts

Disconnecting downspouts has been encouraged in the past and may be encouraged again, but as it takes place on private property, the City is unable to ensure downspouts are discharging to pervious surfaces properly.

Promote private property measures

Besides rain barrels and disconnecting downspouts, there are several improvements that can be made to private properties to reduce runoff to storm systems, involving grading, land use or planting vegetation. However, the City would be unable ensure the efficiency of such measures, and the impact would not be significant enough to reduce flooding concerns.

Regrade private property

One of the main issues with the study area is the topography of low point. It is very flat and flush with adjacent properties. Some regrading along the adjacent properties could reduce the extent of flooding, however, the City would be unable to ensure their efficiency.

Local improvements may reduce flooding but not significantly, and as they would be on private property, the City would not be able to maintain or monitor the effectiveness of such measures. They are all valid measures to reduce runoff and the private property owner should be encouraged to consider them for their property if so desired.

6.1.2 Conveyance Measures

Replacement storm sewer

Replacing the undersized trunk sewer with a larger one was considered as a possible solution.

Relief storm sewer

Instead of replacing the trunk sewer, a relief storm sewer could be added adjacent to the existing to increase capacity.

LID Conveyance Measures

A bioretention cell along the boulevard of Honeysuckle Avenue and Michaud Avenue may provide some quality and quantity benefits, and as such was carried forward.

Improvements to walkway / City property

As the overland flow capacity of the existing pathway is quite limited several different changes could be made to increase its capacity and improve drainage. These types of measures were considered on the long list of solutions.

Diversion storm sewer

It may be ideal to capture runoff from the study area and convey it to a new outfall location, relieving the existing system of some flow. This was carried forward on the long list of solutions.

6.1.3 Storage Solutions

Above ground

Although the area is quite developed, there could be some potential to provide above ground storage for the area through some regrading. This was included on the long list to consider.

Below ground

There is a lot of potential for underground storage within the study area or upstream. Different underground storage alternatives were included on the long list for consideration.

LID Storage Measures

A bioretention swale with additional storage provided beneath may be a possible mitigation measure if placed along the boulevard at a problem location such as Honeysuckle Avenue and Michaud Avenue. It was included on the long list for consideration.

A simplified model was set up to determine how much storage would be required to limit proposed flows to the available 8.2 m^3/s. This scenario is not straightforward, as different factors would impact the maximum volume required. The location of the storage makes a difference, and how to contain any excess flows upstream, as well as how to get all the flow into the storage chamber.

To determine the required storage volume to mitigate flows, a storage facility was set up in the model as an offline unit located on Honeysuckle Avenue just south of the north branch of Capricorn Crescent, where most of the flooding occurs. The four sections of 1650mm diameter pipe upstream of the storage (approximately 386m) were upsized to contain the 100-year flow. Every inlet in the area was set to represent the equivalent of 12 catch basins to ensure capture of the 100-year event, and the volume of the storage unit was set to 10,000 m^3. There was some trial-and-error run in this set up to find the optimal storage volume. The results of the model indicated that 100 percent of the storage volume was used in a 100-year storm, and major and minor flows were only just contained within the remainder of the study area. Since some storm sewer sections had to be upsized for this storage solution to work, the volume of 10,000 m^3 is the minimum volume required to solve the flooding problems with a storage-only solution. Since the flooding occurs along a narrow strip of property, more than one storage location may be required. Also, to fit 10,000 m^3 of storage exactly where the flooding is concentrated is unlikely, and so storage locations that are slightly outside of the study area may need to be larger to account for mitigation of additional flows. This volume does give us a general idea of what is required to mitigate the flooding through a storage solution. For the storage solutions, the volume of storage required to eliminate flooding would be helpful in evaluating the storage solutions based on their respective volumes.

It may require multiple conveyance and/or storage solutions to eliminate flooding in this area. The following section describes different alternatives considered to help alleviate flooding, with the understanding that a combination of alternatives would likely be necessary.

6.2 Long List of Alternatives

Different storage and conveyance alternatives were discussed to include on the long list, shown in **Table 6.1** below. Storage measures both small and large were considered for above and below ground applications. Upsizing storm sewers, adding to existing storm sewer systems and providing new storm sewer systems were all considered, as well as improvements to the existing overland flow path and LID measures. Source control measures, or any solutions to be applied to several homeowner properties (such as rain barrels or flood-proofing) were not considered as part of the long list, as measures on private property would be too difficult for the City to maintain, and would not provide significant flood reduction.

Proposed measures were checked against existing grades and sized according to space available within the right-of-way. Once determined feasible to construct, many of the more complex measures were modelled in PCSWMM to

verify that the proposed measures would have the desired stormwater impacts. The model was often adjusted and rerun to obtain the best results of the proposed alternative to carry forward.

Table 6.1. Long List of Alternatives

Long List ID #	Description	SWM Improvement – Ability to Mitigate Flooding
1	▪ Add 900mm relief sewer along existing City property (public path) from Etude Drive to outfall south of Justine Drive (via overland route) ▪ Assumes construction will be contained within existing pathway and fences (assumes no temporary easements from adjacent residential properties) ▪ Assumes open cut construction ▪ Consider trenchless construction to avoid surface impacts ▪ Requires flow reduction/energy dissipation before outlet, to address potential downstream erosion of Mimico Creek and tributaries ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ Slight improvement ▪ Results in an estimated 2.0 m^3/s additional **conveyance**
2	▪ Replace 1650mm trunk with large box sewer (or 2400mm diam @0.46%) within existing public pathway and entire existing 7.5m property required for construction & new inlets at various locations. ▪ Requires flow reduction/energy dissipation before outlet, to address potential downstream erosion of Mimico Creek and tributaries ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ Significant improvement ▪ Results in an estimated 8.6 m^3/s additional **conveyance**
3	▪ Regrade and realign existing overland flow route (public pathway) to eliminate depressions and contain flows with curb. ▪ Assumes works will be contained within the existing fenced pathway (assumes no temporary easements from adjacent residential properties) ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ No significant improvement ▪ Results in an estimated 0.4 m^3/s additional **conveyance**
4	▪ Regrade and realign overland flow route, including pedestrian pathway and rear and side yards within the existing full 7.5m property ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ Slight to no significant improvement ▪ Results in an estimated 1.5 m^3/s additional **conveyance**
5	▪ Modify the cross-section of Honeysuckle Avenue to an inverted crown to add capacity ▪ Assumes all works will be in the existing right-of-way	▪ No significant improvement ▪ Results in an estimated 1.0 m^3/s additional **conveyance**
6	▪ Modify cross-section of Honeysuckle Avenue to provide roadside ditch on east side ▪ Assumes majority of works will be in the existing right-of-way	▪ No significant improvement ▪ Results in an estimated 50 m^3 additional **storage**
7	▪ Regrade fronting private properties (Honeysuckle Avenue and Michaud Avenue) to prevent spilling ▪ Includes adding a berm along the boulevard and/or on fronting property between the road and low points	▪ No significant improvement ▪ Results in minimal additional **conveyance**
8	▪ Provide underground storage beneath Honeysuckle Avenue and Michaud Avenue ▪ Assumes works will be within the existing right-of-way	▪ Moderate improvement ▪ Results in an estimated 1,950 m^3 additional **storage**
9	▪ Provide underground storage upstream beneath Ridgewood Park field ▪ Potential opportunity to improve Ridgewood Park as part of restoration	▪ Significant improvement ▪ Results in an estimated 12,000 m^3 additional **storage**

Long List ID #	Description	SWM Improvement – Ability to Mitigate Flooding
10	▪ Add bioretention swale alongside Honeysuckle Avenue for added storage / treatment ▪ Assumes majority of works will be in the existing right-of-way ▪ Some regrading with storage beneath would be beneficial ▪ Provides opportunity to provide quality control measures	▪ Slight improvement ▪ Results in an estimated 200 m^3 additional **storage**
11	▪ Add new diversion sewer and outlet at: a. Justine Drive & Michaud Avenue, *OR* b. Adjacent tributary west of STM trunk outfall, *OR* c. Etude to Justine Drive	▪ Could **convey** most excessive flows to a new outfall alleviating our problem areas

6.2.1 High Level Evaluation

The eleven (11) long list alternatives were evaluated qualitatively based on the following criteria;

- Success of flood mitigation
- Constructability / Proximity to problem area
- Complexity of obtaining permits and approvals
- Natural Environment (tree and vegetation removal and/or damage)
- Socio-Economic Impacts (disruption to community, including travelling public)
- Potential Construction Cost

Table 6.2 below shows the evaluation of the different alternatives and which are selected to carry forward.

Table 6.2. Long List Evaluation

Long List ID #	Description	SWM Improvement – Ability to Mitigate Flooding	Stakeholder Considerations	Long List Screening	Screening Results and Rationale
1	▪ Add 900mm relief sewer along existing City property (public path) from Etude Drive to outfall south of Justine Drive (via overland route) ▪ Assumes construction will be contained within existing pathway and fences (assumes no temporary easements from adjacent residential properties) ▪ Assumes open cut construction ▪ Consider trenchless construction to avoid surface impacts ▪ Requires flow reduction/energy dissipation before outlet, to address potential downstream erosion of Mimico Creek and tributaries ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ Slight improvement ▪ Results in an estimated 2.0 m3/s additional conveyance	▪ TRCA has requested flow reduction / energy dissipation at creek outfall ▪ Travelling public, including temporary disruption to designated school route ▪ Adjacent property owners regarding disruption during construction	**Advantages** ▪ Majority of works are within or in close proximity to most the impacted area ▪ Avoids or minimizes tree removals ▪ Avoids direct impacts to private property, including use of rear and side yards and temporary disruptions to the travelling public during construction **Disadvantages** ▪ Does not significantly mitigate flooding on its own ▪ Difficult constructability (longer construction duration, narrow work area and potential conflicts with existing infrastructure) ▪ High cost relative to other longlisted alternatives	**X** Screened Out ***Involves high costs and significant disruption for homeowners adjacent to pathway, and on its own wouldn't provide significant flood reduction***
2	▪ Replace 1650mm trunk with large box sewer (or 2400mm diam @0.46%) within existing public pathway and entire existing 7.5m property required for construction & new inlets at various locations. ▪ Requires flow reduction/energy dissipation before outlet, to address potential downstream erosion of Mimico Creek and tributaries ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ Significant improvement ▪ Results in an estimated 8.6 m3/s additional conveyance	▪ TRCA has requested flow reduction / energy dissipation at creek outfall ▪ Travelling public, including temporary disruption to designated school route ▪ Adjacent property owners regarding encroachment/ disruption to current land use	**Advantages** ▪ Significantly reduces flow – flooding impact contained to City property and road right of ways ▪ Of the more effective solutions it has a relatively low cost ▪ Majority of works are within or in close proximity to the impacted area ▪ Significant improvement that can work well with in combination with other solutions **Disadvantages** ▪ Difficult constructability (longer construction duration, narrow work area, close proximity to residences and potential conflicts with existing infrastructure) ▪ Significant impacts to existing trees and shrubs ▪ Removal of encroachments will be required beyond path fence line within City-owned lands and temporary disruptions to the travelling public during construction	✓ Carry Forward ***Involves significant disruption for homeowners adjacent to pathway, however, would provide significant flood reduction***

Long List ID #	Description	SWM Improvement – Ability to Mitigate Flooding	Stakeholder Considerations	Long List Screening	Screening Results and Rationale
3	▪ Regrade and realign existing overland flow route (public pathway) to eliminate depressions and contain flows with curb. ▪ Assumes works will be contained within the existing fenced pathway (assumes no temporary easements from adjacent residential properties) ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ No significant improvement ▪ Results in an estimated 0.4 m3/s additional conveyance	▪ Travelling public, including temporary disruption to designated school route ▪ Adjacent property owners regarding disruption during construction	**Advantages** ▪ Will be able to contain lower flows along the path, protecting adjacent properties ▪ Majority of works are within or in close proximity to impacted area ▪ Opportunities for beautification along City property with upgrades to the pathway ▪ Good constructability (minimal excavation and short construction duration) ▪ Straightforward permitting – approval process ▪ Avoids or minimizes tree removals ▪ Avoids direct impacts to private property and only temporary disruptions to the travelling public during construction ▪ Lower cost relative to other longlisted alternatives **Disadvantages** ▪ Does not significantly mitigate flooding on its own – would only be effective in combination with other alternative solutions ▪ Regrading and realignment do not contain the existing 100-year major flows	✓ Carry Forward ***Can reduce flooding in conjunction with other alternatives and does not involve significant impacts to property owners***
4	▪ Regrade and realign pathway beyond existing path fence line to full 7.5m extents of City-owned lands ▪ Opportunities for beautification along City property with upgrades to the pathway	▪ Slight to no significant improvement ▪ Results in an estimated 1.5 m3/s additional conveyance	▪ Adjacent property owners regarding encroachment/ disruption to current land use ▪ Travelling public, including temporary disruption to designated school route	**Advantages** ▪ Works are within or in close proximity to the impacted area ▪ The existing overland flow route could be designed to convey more flow than it currently does ▪ Good constructability (minimal excavation and short construction duration) ▪ Straightforward permitting – approval process ▪ Lower cost relative to other longlisted alternatives **Disadvantages** ▪ Does not significantly mitigate flooding on its own – would only be effective in combination with other alternative solutions ▪ Increased impervious surface Significant impacts to existing trees and shrubs Removal of encroachments will be required beyond path fence line within City-owned lands and temporary disruptions to the travelling public during construction	**X** Screened Out ***Limited flood reduction and conveyance improvement and involves significant impacts to property owners***
5	▪ Modify the cross-section of Honeysuckle Avenue to an inverted crown to add capacity ▪ Assumes all works will be in the existing right-of-way	▪ No significant improvement ▪ Results in an estimated 1.0 m3/s additional conveyance	▪ Property owners regarding temporary disruptions during construction ▪ Travelling public regarding temporary disruptions during construction	**Advantages** ▪ Works are within the impacted area ▪ Good constructability (works in public right-of-way and short construction duration) ▪ Straightforward permitting – approval process ▪ Avoids or minimizes tree removals ▪ Avoids direct impacts to private property **Disadvantages** ▪ Does not significantly mitigate flooding on its own – would only be effective in combination with other alternative solutions. Minor additional conveyance capacity ▪ Temporary disruption during construction to residents travelling public for road upgrade ▪ High cost relative to other longlisted alternatives due to road upgrade with minimal improvements in flood reduction ▪ Honeysuckle Avenue appears to be in good condition	**X** Screened Out ***High costs with limited flood reduction and conveyance improvement***

Long List ID #	Description	SWM Improvement – Ability to Mitigate Flooding	Stakeholder Considerations	Long List Screening	Screening Results and Rationale
6	▪ Modify cross-section of Honeysuckle Avenue to provide roadside ditch on east side ▪ Assumes majority of works will be in the existing right-of-way	▪ No significant improvement ▪ Results in an estimated 50 m3 additional storage	▪ Property owners impacted by roadside ditches ▪ Travelling public regarding temporary disruptions during construction	**Advantages** ▪ Works are within the impacted area ▪ Good constructability (works area primarily in the existing public right-of-way and short construction duration) ▪ Straightforward permitting – approval process ▪ Avoids or minimizes tree removals ▪ Avoids direct impacts to private property **Disadvantages** ▪ Does not significantly mitigate flooding on its own - would only be effective in combination with other alternative solutions. Minor additional conveyance capacity ▪ Removal of on street parking on east side of Honeysuckle Avenue ▪ Temporary disruption during construction to residents and travelling public ▪ Construction of roadside ditch may mean loss of yard space ▪ High cost relative to other longlisted alternatives due to road upgrade with minimal improvements in flood reduction ▪ Honeysuckle Avenue appears to be in good condition.	**X** Screened Out ***Limited flood reduction and conveyance improvement and high cost***
7	▪ Regrade fronting private properties (Honeysuckle Avenue and Michaud Avenue) to prevent spilling ▪ Includes adding a berm along the boulevard and/or on fronting property between the road and low points	▪ No significant improvement ▪ Results in minimal additional conveyance	▪ Property owners impacted by regrading and berm ▪ Travelling public regarding temporary disruptions during construction	**Advantages** ▪ Works are within the impacted area ▪ Good constructability (does not involve deep excavations and short construction duration) ▪ Straightforward permitting – approval process ▪ Avoids or minimizes tree removals ▪ Lower cost relative to other longlisted alternatives – results in small local improvements to two properties within the impacted area **Disadvantages** ▪ Does not significantly mitigate flooding on its own – would only be effective in combination with other alternative solutions ▪ ▪ Temporary disruption during construction to residents and travelling public ▪ Construction of berm may mean loss of yard space and modifications to driveways ▪ Honeysuckle and Michaud Avenue appear to be in good condition	✓ Carry Forward ***Can reduce flooding in conjunction with other alternatives***
8	▪ Provide underground storage beneath Honeysuckle Avenue and Michaud Avenue ▪ Assumes works will be within the existing right-of-way	▪ Moderate improvement ▪ Results in an estimated 1,950 m3 additional storage	▪ Property owners regarding temporary disruptions during construction ▪ Travelling public regarding temporary disruptions during construction	**Advantages** ▪ Works are within the impacted area (storage in proximity to where majority of flooding occurs would be most efficient) ▪ Good constructability ▪ Avoids or minimizes tree removals ▪ Straightforward permitting – approval process ▪ Avoids direct impacts to private property and temporary disruptions to the travelling public and fronting properties during construction **Disadvantages** ▪ Honeysuckle and Michaud Avenue appear to be in good condition ▪ Works within the right-of-way with space available beneath the roadway to provide storage; however longer construction duration with potential utility impacts ▪ High cost relative to other longlisted alternatives	✓ Carry Forward ***Can reduce flooding in conjunction with other alternatives***

Long List ID #	Description	SWM Improvement – Ability to Mitigate Flooding	Stakeholder Considerations	Long List Screening	Screening Results and Rationale
9	▪ Provide underground storage upstream beneath Ridgewood Park field ▪ Potential opportunity to improve Ridgewood Park as part of restoration	▪ Significant improvement ▪ Results in an estimated 12,000 m^3 additional storage	▪ Park users regarding temporary disruptions during construction ▪ Ridgewood Public School regarding temporary disruptions during construction ▪ Travelling public regarding temporary disruptions during construction ▪ Adjacent property owners regarding temporary disruptions during construction ▪ City Community Services department	**Advantages** ▪ Significant improvement to reduce flooding ▪ Good constructability (enough space for construction and operation and avoids or minimized impacts to utilities) ▪ Reduces outlet flow into Mimico Creek and associated erosion ▪ Adjacent to 1650mm trunk – easy access for offline storage ▪ Works may also relieve flooding upstream in Flood Cluster 8 ▪ Straightforward permitting – approval process ▪ Avoids direct impacts to private property **Disadvantages** ▪ Works are located further upstream from the impacted area ▪ Significantly longer construction duration relative to other longlisted alternatives ▪ Tree removal may be required in the park ▪ Disruption to park users, including adjacent residential rear yards and Ridgewood Public School due to the temporary closure of park for construction ▪ High cost relative to other longlisted alternatives	✓ Carry Forward ***Significantly reduces flooding, especially if in conjunction with other alternatives, good constructability and avoids significant impacts to property owners***
10	▪ Add bioretention swale alongside Honeysuckle Avenue for added storage / treatment ▪ Assumes majority of works will be in the existing right-of-way ▪ Some regrading with storage beneath would be beneficial ▪ Provides opportunity to provide quality control measures	▪ Slight improvement ▪ Results in an estimated 200 m3 additional storage	▪ Property owners ▪ Travelling public regarding temporary disruptions during construction ▪ Potential TRCA concerns	**Advantages** ▪ Works are within the impacted area (storage in proximity to where majority of flooding occurs would be most efficient) ▪ There should be space beneath the roadway to provide storage ▪ Good constructability (majority of works within the road right-of-way, short construction duration) ▪ Avoids or minimizes tree removals ▪ Straightforward permitting – approval process ▪ Low cost relative to other longlisted alternatives **Disadvantages** ▪ Does not significantly mitigate flooding on its own – would only be effective in combination with other alternative solutions ▪ Temporary disruption during construction to residents and travelling public ▪ Construction of bioretention swale may mean loss of yard space within City ROW ▪ Honeysuckle Avenue appears to be in good condition	✓ Carry Forward ***Can reduce flooding in conjunction with other alternatives***
11	▪ Add new diversion sewer and outlet at: d. Justine Drive & Michaud Avenue, *OR* e. Adjacent tributary west of STM trunk outfall, *OR* f. Etude to Justine Drive	▪ Could redirect most excessive flows alleviating our problem areas	▪ TRCA has requested flow reduction / energy dissipation at creek outfall ▪ Property owners ▪ Travelling public	**Advantages** ▪ Potential to remove almost all excess flows from the impacted area - significant improvement that can work well with in combination with other solutions ▪ Works are within or in close proximity to the impacted area ▪ Could resolve flooding at Justine Drive /Michaud Avenue **Disadvantages** ▪ Difficult constructability (longer construction duration and potential utility conflicts) ▪ Tree removal may be required on private property and new outlet area ▪ Temporary disruption during construction to residents and travelling public ▪ High cost relative to other longlisted alternatives	**X** Screened Out ***The grading renders this alternative infeasible***

Initially, the diversion sewer seemed like an ideal solution, which would capture runoff from the overland flow route and convey it to a new, different outfall location, relieving the existing major / minor systems of significant flow. Several possible routes were investigated, such as:

- East along Etude Drive and south along Codlin Avenue to creek;
- East along Etude Drive to creek;
- West along Etude Drive and south along Minotola Avenue to creek;
- West along Michaud Avenue, crossing Justine Drive to creek; and
- East along Michaud Avenue, between lots to Sonja Road and then south along Minotola Avenue to creek.

The grading along these routes was examined and compared to the proposed pipe that would be required to convey the flow exceeding the capacity of the existing systems. In all cases, the difference in elevation between the ground elevation at the overland flow route and the new outfall location was not enough to allow positive drainage for a large sized storm sewer. The diameter of the proposed pipe plus the required minimum fill cover depth would require a significant elevation difference between the upstream and downstream ends, and in all cases it wasn't enough.

6.2.2 Short list

Based on the 11 Alternatives presented above, five possible alternatives were assembled. These five alternatives combine and sometimes alter slightly the measures carried forward to help determine the preferred alternative. **Table 6.3** below lists the five alternatives along with some compelling data about each one to assist in the selection process. These alternatives are also compared to the "Do Nothing" option to give some perspective.

Table 6.3. Short List Evaluation

Alt.	Solution	# Houses flooded during 100yr	100yr STM Q at Outfall (m^3/s)	Advantages	Disadvantages	High Level Cost Estimates ($ Million)
0	Do Nothing	37	10.3		Risks to safety and property damage	
1	Replace 1650mm storm sewer with 1.7m x 2.7m box sewer and add inlets. Realign and regrade overland flow path and reconstruct outfall and downstream channel.	4	20.4	This solution will provide significant flood reduction within the study area and lower cost alternative	High disruption, difficult to mitigate flows at outfall	$8.0
2	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and realign and regrade overland flow route (0.15m deep within existing fences). Reconstruct outfall and downstream channel.	10	12.3	Underground storage would fit within field, flow at outfall should not be much greater than existing, infiltration potential beneath field	High disruption at multiple locations, lack of significant flood reduction, considerable cost	$9.4
3	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and a 0.15m deep bioswale with 115 m^3 of storage beneath at Honeysuckle & Michaud. Reconstruct outfall and downstream channel.	13	12.6	Underground storage would fit within path, flow at outfall shouldn't be much greater than existing, water quality benefits from bioswale, infiltration potential beneath field	High disruption	$9.5
4	Add 12,000 m^3 underground storage in Ridgewood Park field, additional inlets and a 0.15m deep bioswale with 180 m^3 storage beneath at Honeysuckle & Michaud	14	10.8	Without the relief sewer this solution would be more cost effective and less disruptive, with water quality benefits from the bioswale and infiltration potential beneath field	Still 14 houses at risk of flooding, majority of Ridgewood field impacted to provide storage.	$7.3
5	Add 12,000 m^3 underground storage in Ridgewood Park field, additional inlets, 3,600 m^3 underground storage along Etude, Honeysuckle & Michaud, and a realigned overland flow route 0.15m deep and within existing fences.	6	10.3	Significant flood reduction provided, virtually no increase of flow at outfall. infiltration potential beneath field.	To provide significant storage beneath Honeysuckle & Michaud would be very disruptive to residents, at a high cost	$16.5

A drawing showing the construction footprint for each alternative is found in **Appendix A**.

In an effort to find potential cost efficiencies, the scenarios were run again to determine what design and cost would be required to reduce flooding for a 50-year storm. The comparative results are shown in **Table 6.4** below, with difference from the 100-year table shown in red.

Table 6.4: Proposed Alternatives designed for a 50-year event

Alt.	*Updated Solution*		*High Level Cost Estimates ($ Million)*	
	Designed for 100-year event	*Designed for 50-year event*	*100-year Design*	*50-year Design*
1	Replace 1650mm storm sewer with 1.7m x 2.7m box sewer and add inlets. Realign and regrade overland flow path and reconstruct outfall and downstream channel.	Replace 1650mm storm sewer with 1.7m x 2.4m box sewer and add inlets. Provide flow dissipation at outfall. Realign and regrade overland flow path and reconstruct outfall and downstream channel.	$8.0	$7.7
2	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and realign and regrade overland flow route (0.15m deep within existing fences). Reconstruct outfall and downstream channel.	Add 11,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and realign and regrade overland flow route (0.15m deep within existing fences)	$9.4	$8.9
3	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and a 0.15m deep bioswale with 115 m^3 of storage beneath at Honeysuckle & Michaud. Reconstruct outfall and downstream channel.	Add 12,000 m^3 underground storage in Ridgewood Park field, plus a 1050mm diameter relief sewer from Etude to outfall, additional inlets and a 0.15m deep bioswale with 115 m^3 of storage beneath at Honeysuckle & Michaud	$9.5	$9.5
4	Add 12,000 m^3 underground storage in Ridgewood Park field, additional inlets and a 0.15m deep bioswale with 180 m^3 storage beneath at Honeysuckle & Michaud	Add 11,000 m^3 underground storage in Ridgewood Park field, additional inlets and a 0.15m deep bioswale with 180 m^3 storage beneath at Honeysuckle & Michaud	$7.3	$6.8
5	Add 12,000 m^3 underground storage in Ridgewood Park field, additional inlets, 3,600 m^3 underground storage along Etude, Honeysuckle & Michaud, and a realigned overland flow route 0.15m deep and within existing fences.	Add 11,000 m^3 underground storage in Ridgewood Park field, additional inlets, 3,270 m^3 underground storage along Etude, Honeysuckle & Michaud, and a realigned overland flow route 0.15m deep and within existing fences.	$16.5	$15.5

The reduction in costs associated with the 50-year design storm are not significant with many homes still impacted, and so the proposed design will continue to strive to eliminate or at least reduce flooding for a 100-year event. Cost breakdowns are in **Appendix E**.

6.2.3 Selection of Conceptual Preferred Alternative

6.2.3.1 City of Mississauga

The City has been part of the process in generating the long and short lists of alternatives, and so feedback has been received throughout the conceptual design.

Of the five short list alternatives, Alternative 1 was preferred as it results in the fewest flood impacted homes, minimizes construction to along the study area (not impacting the park to the north), and has one of the lowest construction costs.

The conceptual design was analysed more closely to ensure that the proposed 1.7m by 2.7m box sewer would fit within the existing property and that it could be constructed without impacting the nearby sanitary sewer or adjacent houses. Three cross-sections were developed along the overland flow path to compare the construction footprint (open cut with trench boxes) to the surroundings. There would not be a lot of space, however, it was confirmed that it is possible. The cross-sections can be found in **Appendix A**.

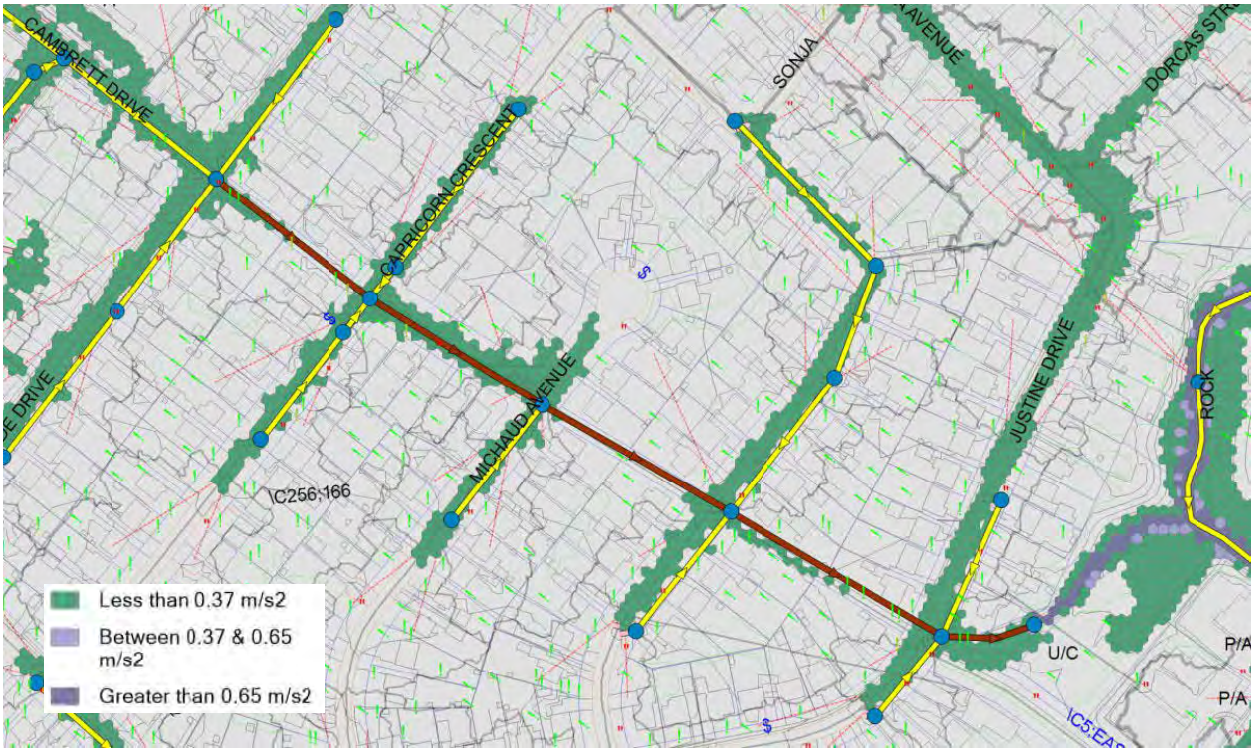
This has therefore been carried forward as the preferred alternative. Further analysis was undertaken to determine the impacts of this alternative on the watercourse downstream.

6.2.4 Modelling Results for the Preferred Solution

Modelling results show that with the preferred alternative in place, flooding from the 100-year event is significantly reduced along the study area. Only a few residents remain slightly impacted with the measures in place. The velocity-depth product of the overland flow was also compared for existing and proposed conditions. The flow-depth product was divided into three categories, meeting all criteria, meeting City's criterion but exceeding MNR, exceeding all criteria. The conceptual model results show that the velocity-depth product for the proposed overland flow along the study area meets all criteria. See **Figures 6.1** and **6.2** for the existing and proposed velocity-depth products.

Figure 6.1 Existing Velocity-Depth Product of Overland Flow

Figure 6.2 Proposed Velocity-Depth Product of Overland Flow



6.2.5 Downstream Impacts of Preliminary Preferred Alternative

6.2.5.1 Hydrology Analysis

The PCSWMM modelling to this point has been based on storms using a Chicago distribution. This intense distribution is best in urban settings for conservative flow simulations. To determine the impacts to Mimico Creek downstream, the model results need to be compared to the TRCA's hydrology and hydraulics models. These models are based on a 12-hour AES storm distribution instead of 4-hour Chicago, as the longer, less intense storm is more conservative for the much larger and more rural drainage basins.

And so, the proposed Alternative 1 scenario was run through PCSWMM based on a 100-year storm with an AES distribution to determine peak flows at the downstream end of the system, as was the existing conditions model to compare. The model results are found in **Table 6.5** below.

Table 6.5: Comparison of Storm Outflows in PCSWMM

	Peak Flow (m^3/s)			% Increase
	Existing	**Proposed**	**Increase**	
4-hr Chicago 100-year Storm	10.30	20.40	10.10	98%
12-hr AES 100-year Storm	9.61	11.38	1.76	18%
Regional Event	10.07	13.50	3.43	34%

It should be noted that while this method allows comparison between models, it is on the conservative side as the Visual OTTHYMO model does not model any hydraulic routing, whereas PCSWMM does. Also, the peak flows were compared between models but not the shape of the hydrographs.

As shown in the table above, the difference from 100-year proposed to existing flow is much less for the 12-hour AES storm than the 4-hour Chicago due to the less peaky nature of the storm. However, there is still an increase of 1.76 m^3/s for the AES distribution, and so this additional flow will be included in the Mimico Creek hydrology model to determine flow impacts downstream.

The Visual OTTHYMO model for Mimico Creek includes relatively large catchments to cover the entire creek drainage area. As it is a much larger model is less detailed and can be considered less accurate than the PCSWMM model, which has much smaller catchments and more detail included.

The Visual OTTHYMO model obtained from the TRCA contains catchment 134, which encompasses the Malton Flood Cluster 6 study area and entire drainage area upstream. The model output shows that the 100-year existing conditions peak flow of the catchment is 9.50 m^3/s. This is similar to the PCSWMM existing output which was 9.61 m^3/s.

To simulate the proposed conditions for Alternative 1 in the hydrology model, catchment 134 input data was altered to increase the outflow. The CN value and depression storage depth were adjusted and iterated to render an output flow as close to the PCSWMM output as possible. A proposed peak outflow of 11.37 m^3/s was achieved from the catchment. The model output was analysed downstream of catchment 134 to determine what the proposed peak flows were. The results are summarized in **Table 6.6** below, with node locations near the outfall shown in **Figure 6.3**. Hydrology modelling results can be found in **Appendix C**.

Table 6.6: Hydrology Impacts Downstream

VH Node	Approx. Location	100-year (m^3/s)		Difference		
		Ex. Flow	Prop. Flow	m^3/s	%	
134	Outfall	9.50	11.37	1.87	19.7%	
221	Outfall merges w Creek	51.20	53.07	1.87	3.7%	
233	East & West Confluence	103.11	104.98	1.87	1.8%	
240	B/w soccer field & Home Depot	89.85	90.24	0.39	0.4%	1km D/S
241	D/S rail crossing	90.00	90.46	0.46	0.5%	
224	U/S Hwy 427	116.21	118.38	2.17	1.9%	
225	U/S Hwy 409	100.60	101.56	0.96	1.0%	
251	D/S Hwy 409	112.34	113.80	1.46	1.3%	
254	Dixon Rd.	107.07	108.03	0.97	0.9%	
246	Eglinton	113.18	114.28	1.10	1.0%	
249	Near Milburn Drive	115.29	116.40	1.11	1.0%	
250	Rathburn	116.11	117.12	1.00	0.9%	11.6km D/S

Figure 6.3. Hydrology Nodes near Outfall

Based on the conservative modelling comparison, the impacts of Alternative 1 are mainly observed along the outfall channel itself, with less than a 4% increase by the time the outfall channel converges with the creek tributary. And at the confluence of the east and west tributaries south of Derry Road the increase is less than 2% from existing. Beyond the confluence there is a marginal increase in flow that extends several kilometers downstream. At Rathburn Road, approximately 11.6 km downstream of the outfall, there would be a 0.9% increase in flow.

The Regional event was to be modeled in Visual OTTHYMO to determine flow increases as a result of the proposed works, however, the flowrate for Catchment 134 was found to be 14.56 m^3/s, which is higher than both the existing and proposed Regional flows determined in the PCSWMM model. It was therefore assumed that the TRCA's hydrology model is conservative enough and that the Regional flow for proposed conditions would not exceed the flows already determined for existing conditions.

6.2.5.2 Hydraulics Analysis

The HEC-RAS model was obtained from the TRCA to simulate proposed flows along Mimico Creek for the 100-year event to determine resulting water levels. **Table 6.7** shows the flow change locations that were updated to reflect the proposed flows.

Table 6.7: HEC-RAS Proposed Flows Downstream

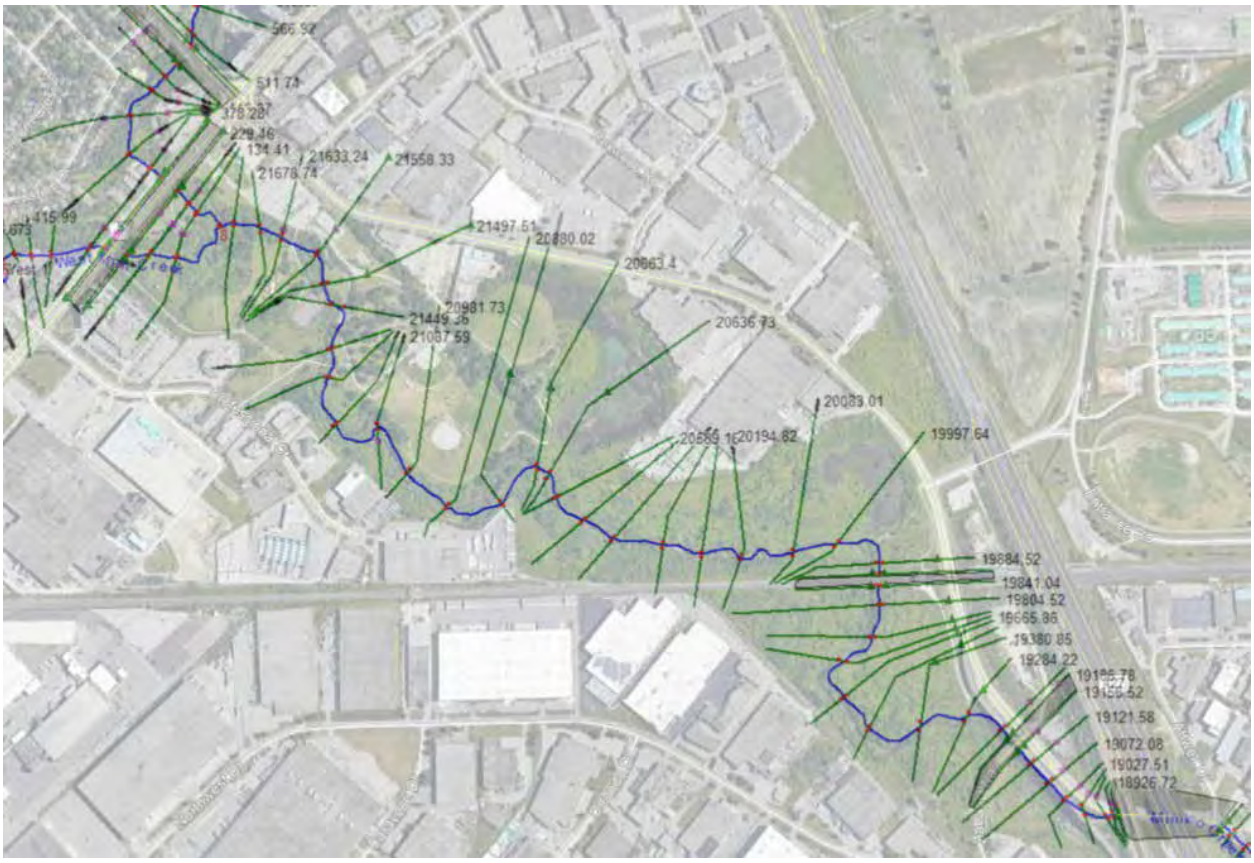
River	Reach	Cross-section	Flow Change Location	HEC-RAS Ex. Flowrates (m^3/s)		VH Node	Proposed Flowrates (m^3/s)
				100-year	Regional		100-year
East Mimico Creek	East 1	1012.02	@ Etude	51.2	193.532	221	51.20
		233.17	@ Outfall	**51.2**	193.532		53.07
East Mimico Creek	East 1	157.31	U/S Derry	51.2	318.7	221	53.07
Mimico Creek	3	21729.24	Confluence D/S Derry	103.11	318.696	233	104.98
Mimico Creek	3	19186.78	U/S Zahavy Way	100.6	330.822	225	101.56
Mimico Creek	3	17406.43	U/S Hwy 409	107.07	348.399	254	108.03
Mimico Creek	3	15657.54	U/S Dixon Rd.	110.25	360.166	245	111.30
Mimico Creek	3	13433.31	U/S Hwy 401	115.29	381.986	249	116.40

The proposed flows were run through HEC-RAS and resulting water surface elevations and velocities were compared to existing for a selection of cross-sections. **Table 6.8** below shows the results and **Figure 6.4** shows the cross-section locations.

Table 6.8: HEC-RAS Water Levels Downstream

River	Reach	Cross-section	Location	100-year Water levels (m)			Velocity Increase (m/s)
				Existing	Proposed	Increase	
East Mimico Creek	East 1	306.98	U/S of outfall	162.59	162.64	0.05	0.04
East Mimico Creek	East 1	233.17	@ Outfall	162.60	162.65	0.05	0.04
East Mimico Creek	East 1	157.31	U/S Derry	162.29	162.33	0.04	0.09
East Mimico Creek	East 1	61.73	U/S of confluence	162.11	162.14	0.03	0.00
Mimico Creek	3	21729.24	Confluence D/S Derry	162.11	162.14	0.03	0.00
Mimico Creek	3	21633.24	100m D/S of confluence	161.67	161.69	0.02	0.00
Mimico Creek	3	21497.51	230m D/S of confluence	161.32	161.34	0.02	0.00
Mimico Creek	3	21353.5	375m D/S of confluence	161.15	161.17	0.02	0.00
Mimico Creek	3	21197.67	530m D/S of confluence	160.78	160.80	0.02	0.00
Mimico Creek	3	20981.73	750m D/S of confluence	160.14	160.15	0.01	0.00
Mimico Creek	3	20768.48	960m D/S of confluence	160.16	160.18	0.02	0.00
Mimico Creek	3	20636.73	1.1km D/S of confluence	159.74	159.76	0.02	0.01
Mimico Creek	3	20194.82	1.5km D/S of confluence	158.98	159.01	0.03	0.00
Mimico Creek	3	19741.48	2.0km D/S of confluence	157.95	157.97	0.02	0.00
Mimico Creek	3	19206.7	2.5km D/S of confluence	156.69	156.70	0.01	0.01
Mimico Creek	3	18704.8	3.0km D/S of confluence	155.65	155.67	0.02	0.00
Mimico Creek	3	18206.91	3.5km D/S of confluence	154.55	154.56	0.01	0.01

Figure 6.4. HEC-RAS Cross-sections



The impacts are concentrated where the outfall channel meets the creek tributary and just downstream. Beyond the confluence of the east and west tributaries the water level increase varies from 1-3 cm. There are some minor velocity impacts downstream of the outfall channel, but virtually none downstream of Derry Road. Hydraulic modelling results can be found in **Appendix D**.

6.2.5.3 Hydraulic Downstream Impacts

The impacts of the Alternative 1 design are a slight increase in peak flows and water levels along the outfall channel and where it meets Mimico Creek. The flows along the channel increase by almost 20%, but when the outflow channel converges with the creek the increase in flow reduces to less than 4%.

Water levels along the creek would increase by 5cm where the outfall channel meets the creek. Downstream the increase is reduced.

The conservative model results indicate that there will be a slight increase to water levels for several kilometers downstream.

The Regional Storm event currently overtops Derry Road. As the Regional Storm event flows were not impacted by the proposed works the overtopping would continue as in existing. The clearance and freeboard criteria for the bridge are not quite met under existing conditions, and would therefore not be met under proposed, as water levels are slightly higher at the bridge under proposed conditions.

6.2.5.4 Hydraulic Mitigation Measures

The impacts discussed above are for the conceptual design without any improvements or mitigation measures included at the downstream end of the system. It is possible that with some flow dissipation measures or a new channel designed to slow flows, these impacts could be reduced.

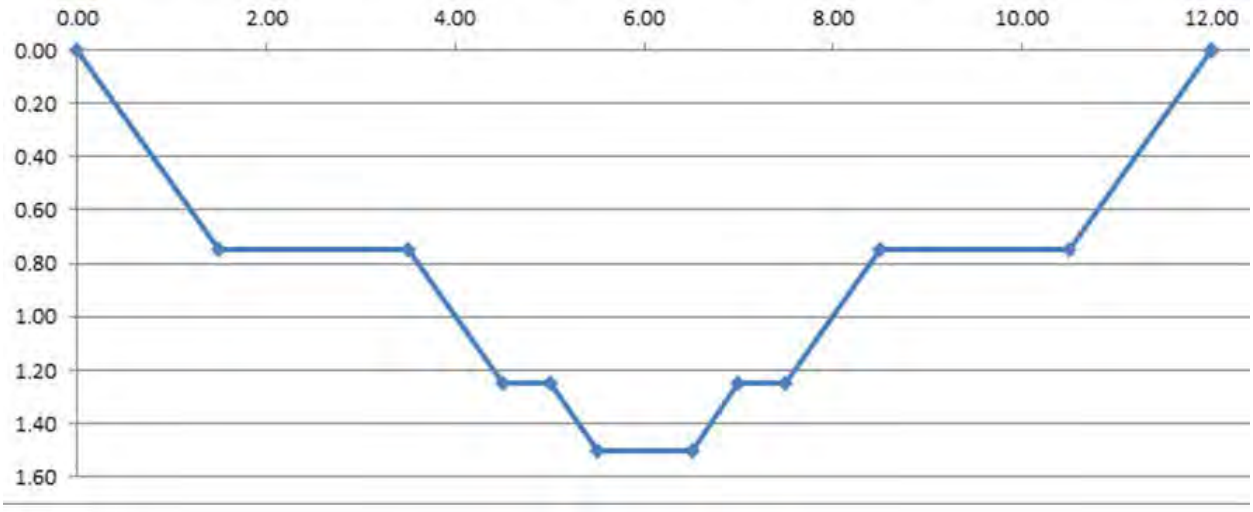
Storage solutions at the downstream end of the storm trunk were investigated, however, due to the excessive volumes required to reduce flows and the proximity to the floodplain these solutions were considered infeasible.

Alternative 1 includes a new storm trunk to the outfall. The existing outfall structure and a portion of the downstream channel would have to be replaced to make room for the larger pipe, and so it would be an opportune time to construct a channel that is better able to dissipate flows and reduce velocities.

A wider channel with more gradual, vegetated side slopes would help. The alignment of the channel also has an impact. A longer, meandering channel would allow a decrease in longitudinal slope, which would also help to dissipate flows. **Figures 6.5** and **6.6** below show photos of the existing channel cross-section and an example of a proposed cross-section.

Figure 6.5. Existing Outfall Channel

Figure 6.6. Possible Channel Cross-section



A conceptual design and high level costs have been developed for the purpose of this report, and further hydraulic analysis will be conducted at the detailed design stage, including additional input from a fluvial geomorphologist to design an optimal channel configuration to meet the needs of the design requirements. More detailed costs and other potential impacts will be determined at this stage as well.

6.2.6 Feedback on Preliminary Preferred Alternative

6.2.6.1 TRCA

A presentation was created to inform the TRCA about the work completed thus far for Malton Flood Cluster 6, and to obtain their feedback on the City's preferred alternative. A virtual meeting was held on September 9, 2020 with representatives from AECOM, TRCA and the City. The presentation gave some background information on the flooding history of the study area, explained the previous work completed by Matrix Solutions and the development stages up to the selection short list of alternatives, with a focus on Conceptual Alternative 1. The minutes and presentation can be found in **Appendix B**. The TRCA did not object to Alternative 1 and were supportive of the proposed design and the improvements to the outfall channel. The TRCA did request that Low Impact Development measures be considered as the detailed design moves forward.

The TRCA will be kept informed as the design progresses to preliminary design, allowing any questions or concerns to be addressed in the short term to maintain project efficiency.

7. Summary

Several possible solutions were explored to find a potential resolution for the flooding issues within Flood Cluster 6. Of all the potential mitigation measures, eleven were included on a long list of alternatives to be investigated further to determine if they would be feasible. The long list was evaluated against six main criteria; flood reduction potential, constructability, complexity of obtaining permits and approvals, natural environment, socio-economic impacts, and cost. The long list of alternatives is summarized below with the decision to carry forward or not.

- Add 900mm relief sewer from Etude to outfall — Screened out
- Replace 1650mm trunk sewer with large box culvert — Carried forward
- Regrade and realign existing overland flow route within existing fence — Carried forward
- Regrade and realign existing overland flow route but to full 7.5m width — Screened out
- Modify cross-section of Honeysuckle Ave. to have a reverse crown — Screened out
- Modify cross-section of Honeysuckle to have roadside ditches — Screened out
- Regrade boulevard at flooding locations — Carried forward
- Provide underground storage beneath roadway — Carried forward
- Provide underground storage beneath Ridgewood Park — Carried forward
- Add bioretention swale along Honeysuckle boulevard — Carried forward
- Add diversion sewer — Screened out

The remaining measures were modelled in different combinations with different parameter variations to come up with a short list of possible alternatives. The five alternatives on the short list are as follows:

- Replace 1650mm trunk sewer with box 1.7m x 2.7m box sewer, add inlets, reconstruct overland flow path and provide flow dissipation at outfall
- Add 12,000 m^3 underground storage at Ridgewood park, add 1050mm relief sewer, add inlets and realign overland flow route
- Add 12,000 m^3 underground storage at Ridgewood park, add 1050mm relief sewer, add inlets and a bioswale at Honeysuckle Avenue and Michaud Avenue with 115 m^3 of storage beneath
- Add 12,000 m^3 underground storage at Ridgewood park, add inlets and a bioswale at Honeysuckle Avenue and Michaud Avenue with 180 m^3 of storage beneath

- Add 12,000 m^3 underground storage at Ridgewood park, add inlets and 3,600 m^3 of storage beneath Etude Drive, Honeysuckle Avenue and Michaud Avenue, and realign overland flow route

After ongoing consultation with the City and a virtual meeting with the TRCA, Alternative 1 was selected as the Conceptual Preferred Alternative. This solution includes replacing the 1650mm diameter trunk with a 1.7m x 2.7m box culvert from Etude Drive to the outfall south of Justine Drive. Several additional, possibly custom, inlets would be required to capture the additional flow. The outfall channel downstream of the outlet would have to be reconstructed to make room for the larger pipe and could be redesigned to mitigate flows upstream of the Mimico Creek tributary.

This solution would reduce the number of houses impacted during a 100-year event from 37 down to four (4), with the flooding to the remaining houses significantly reduced.

8. Next Steps

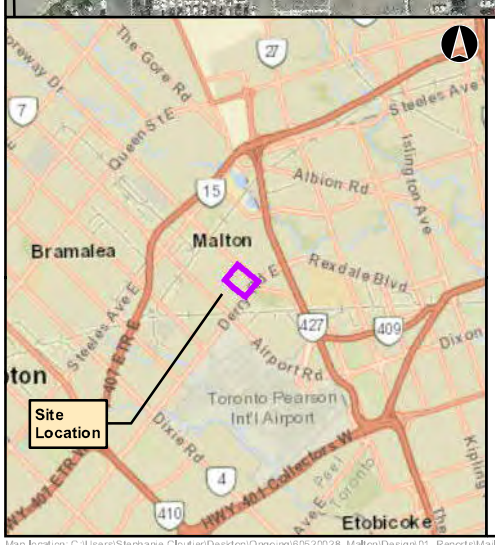
- The conceptual design will move forward to complete the Environmental Assessment (EA) process, including public consultation and a possible virtual Public Information Centre (PIC) in light of the ongoing global COVID-19 Pandemic
- The input received from the public consultation will be reviewed and considered
- Input from the other studies undertaken along the study area will be reviewed including natural environment, heritage assessment, archeology assessment, fluvial geomorphology, landscape architect and arborist.
- Preliminary design will be determined with some additional modelling and calculations
- The TRCA will continue to be engaged with on the project and a permit will be requested
- Once the EA stage and preliminary design are complete, detailed design will commence.

Appendix A

Construction Footprints for Short list Alternatives

Overland Flow Route Cross-sections for Alternative 1

Shallford Rd
Vernor Dr
Cambrett Dr
Jolliffe Ave
Hermitage Rd
Dooley Dr
Etude Dr
Honeysuckle Ave
Minotola Ave
Goreway Dr
Michaud Ave
Sonja Rd
Capricorn Cres
Dorcas St
Justine Dr
Mimico Creek
Derry Rd E



Legend

- Major Road
- Collector Road
- Local Road
- Watercourse

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

Municipal Class Environmental Assessment Study: Malton Flood Mitigation for Flooding Cluster 6

Alternative Solutions

0 50 100
Meters

Oct 2020	1:2,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF Image: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap
P#: 60520028	V#: 00	

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Figure 1

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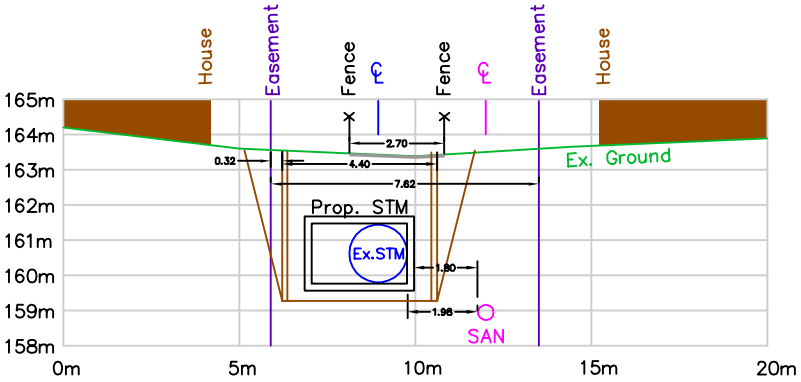
Map location: C:\Users\Stephanie.Cloutier\Desktop\Ongoing\60520028_Malton\Design\01_Reports\MailDrop_202003\MXD-20201019_AlternativeSolutions.mxd
Date Saved: 10/20/2020 8:39:05 AM User Name: Stephanie.Cloutier

Easement Cross-sections

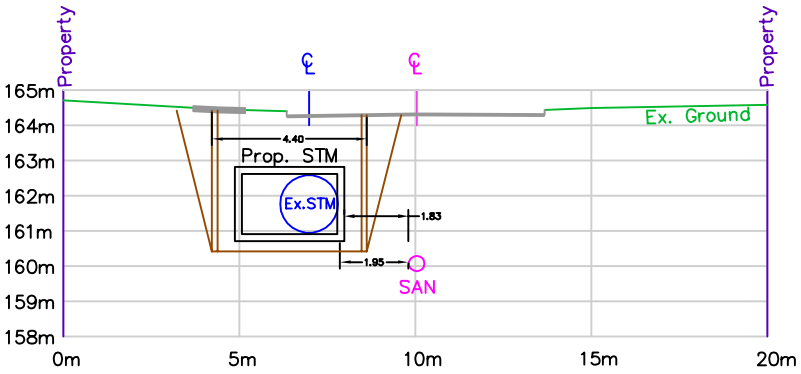
Cross-section A

Easement just north of Justine Dr.



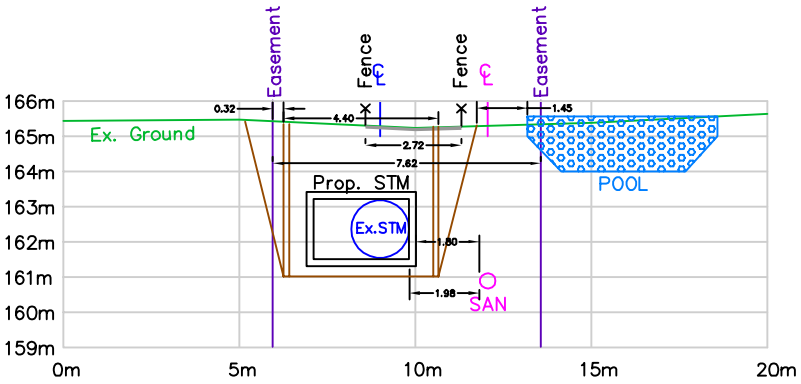
Cross-section B

Honeysuckle just north of Michaud



Cross-section C

Easement between Etude & Capricorn N



Appendix B

Minutes from TRCA Meeting

Minutes of Meeting

Meeting Name Malton Flood Mitigation Study – Etude Drive to Justine Drive	**Subject** Meeting with TRCA on Preferred Alternative
Meeting date 10-September-2020	**Time** 1:30 PM
Location Microsoft Teams	**AECOM Project Number** 60620028
Prepared By: AECOM	**TRCA File Reference** CFN 62948 Malton Flood Mitigation EA

Attendees:
Anthony DiGiandomenico (AD), Capital Project Manager, City of Mississauga
Derek Gray (DG), Project Manager, AECOM
Ken Pun (KP), Senior Water Resources Engineer, AECOM
Emily Cameron (EC), Water Resources Engineer, AECOM
Ben Harris (BH), Water Resource Engineering Intern, AECOM
Rhonneke Van Riezen (RR), Senior Fluvial Geomorphologist, AECOM
Sharon Lingertat (SrL), Senior Planner, TRCA
Dilnesaw Chekol (DC), Senior Engineer, TRCA
Shannon Logan (SnL), Senior Program Manager Sustainable Neighbourhoods, TRCA

Ref	Item	Action
01	**Introduction** – As per the above.	**INFO**
02	**Safety Moment** – With regards to the changing daylight hours DG provided a tips for ensuring visibility when walking at night including making sure you are visible (headlamp/flashlight, reflective clothing, arm/ankle bands), walk facing traffic, staying on sidewalks whenever possible and ensure people know where you are going. Tips were summarized from the following third-party website that AECOM neither endorses nor supports. https://blog.myfitnesspal.com/5-safety-tips-for-walking-at-night/	**INFO**
03	**Malton Flood Mitigation Study – Etude Drive to Justine Drive**	
	EC reviewed the attached presentation that provided an overview of the work AECOM has completed to date and the resulting preliminary preferred solution. In arriving at the preliminary preferred solution AECOM examined a numerous option that were shortlisted into five alternatives: • LID alternatives were examined but found to have only minor impact on flood reduction for the larger events • As funding for this work is from the Mississauga Stormwater Levy private side improvements can not be included. • Storage alternatives would work in theory however, the required volumes are significant resulting in very disruptive construction, extremely high costs while still leaving many homes impacted by flooding • Storage solutions at the outfall were also determined to be very costly and unfeasible due to the location in the floodplain • Conveyance solution was found to be the most practical and cost effective with increased capture capacity which would result in increased flow at the outfall	**INFO**

The preliminary preferred solution is to replace the existing 1650mm storm sewer in the easement with a 1.7x2.7m box culvert along with several custom catchbasins along the sewer replacement along with flow dissipation at the outfall. This is the most effective at reducing the number of homes impacted and from a cost perspective. Impact from construction would be limited to those houses along the easement and Honeysuckle.

The impact of the preliminary preferred alternative downstream increase in flow was assessed including the flow, water surface elevation and velocities and generally considered to be minor apart from the immediate vicinity of the outfall. Derry Road is already overtopped in a Regional event and does not quite meet clearance or freeboard criteria under existing conditions.

As the outfall would need to be reconstructed to accommodate the 1.7x2.7m box culvert flow dissipation/reduction at the outfall has been reviewed at a high level to mitigate and can easily be incorporated.

AECOM is keeping current with other work being completed for the City of Mississauga including the nearby erosion mitigation work and the Master Plan for Paul Coffey Park which identified some areas of high flood risk.

Discussion of following occurred during and after the presentation:

- AECOM confirmed that under this project there is no change in land use or imperviousness, and it is strictly to convey flow to prevent flooding.
- The model developed by Matrix did not include the minor system
- LIDs were considered as part of the alternatives but didn't provide a viable solution for reduction of flooding. AECOM will consider opportunities to incorporate LID from a water quality and in-stream erosion control perspective during the detailed design. **AECOM**
- Changes in flows is not considered to be an issue due to the timing alignment of the flows and the differences between the models and the storms used. **AECOM**
- When doing the detailed design for the outfall and flow dissipation TRCA requested that Natural Channel Principles be followed.
- SrL asked if the changes in flows will impact the residents at the outlet as a result of increased flood elevations or erosion issues. **AECOM**
- SrL asked whether the changes in flows will impact the proposed work in Paul Coffey Park and whether certain areas be brought into greater flood risk.
- SnL identified community benefits/value added associated with the project (e.g. improved path, new fence, benches?, tree planting in the area?, etc.), and make sure to highlight those in the PIC
- SnL noted that if possible, it would be beneficial to talk with local contacts about this community to help understand what people might be interested in and what LID might be of interest. Use the PIC as an opportunity to share information and how-to resources with residents regarding the LID that would support this project (e.g. rain barrels, rain gardens, trees, etc.)
- SnL suggested that in the evaluation process, consider adding criteria based on the needs/broader issues in the neighbourhood. Malton is an regionally significant urban heat hot spot, so assess to what degree each alternative measures up to:
    - reducing ground surface temps,
    - increasing amount of green infrastructure
    - providing an improved aesthetic

	DC requested that AECOM provide TRCA with the models for the preliminary preferred alternative.	
04	**Next Steps**	
	As TRCA agrees with the preliminary preferred alternative AECOM will begin the next steps associated with the Environmental Assessment including the following studies and professionals: • Natural Environment • Heritage • Archaeology • Fluvial geomorphology • Landscape architects • Arborists A Pubic Information Centre (PIC) will be scheduled in the fall. In light of COVID-19 it is uncertain what format this will be. Mississauga and AECOM will use this as an opportunity to educate the public about source control measures including the disconnection of and preferred discharge method for downspouts. AECOM will leverage the information included in the City's website (http://www.mississauga.ca/portal/stormwater/flooding) and the *Residential Guide to Flood Prevention and Recovery.* Following the PIC, AECOM will begin the detailed design and will investigate opportunities for improving the aesthetics of the easement and incorporation of LID.	**AECOM**
	AECOM will need a TRCA point of contact for its ongoing studies for this project.	**TRCA**
05	**Closure** – Meeting ended at 2:30 PM	

Please advise within three business days if there are any material corrections or omissions.

Attachments:

- Presentation – "Malton Flood Mitigation Study – Etude Drive to Justine Drive"

AECOM Imagine it. Delivered.

Malton Flood Mitigation Study – Etude Drive to Justine Drive City of Mississauga

SWM Presentation for the TRCA

Presented by: Emily Cameron, P.Eng

BACKGROUND

- On July 8, 2013 there was a significant rainfall event that crossed the GTA
- The community of Malton in Mississauga was especially inundated
- The event through this area was later equated to a 1:350-year storm
- The TRCA set up a study to analyze the flooding to determine which areas of Malton were most impacted
- The company Matrix Solutions Inc. was retained to complete a Flood Characterization Study for Malton, which they completed in March, 2018
- Their report outlines the assumptions made, methodology used and modelling completed to determine the inundation of the July 8th event, as well as the 2-year through Regional events
- Their report also grouped main flooding concerns into nine (9) clusters
- The City reviewed these clusters and identified Flood Cluster 6 (Etude to Justine) as a high priority site
- The City is in the process of completing an erosion control project for Mimico Creek from Etude Dr. to Derry Rd. to rehabilitate creek and address some existing erosion issues
- The City's "Paul Coffey Park Master Plan" is nearing completion south of the site

STUDY AREA

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EXISTING CONDITIONS

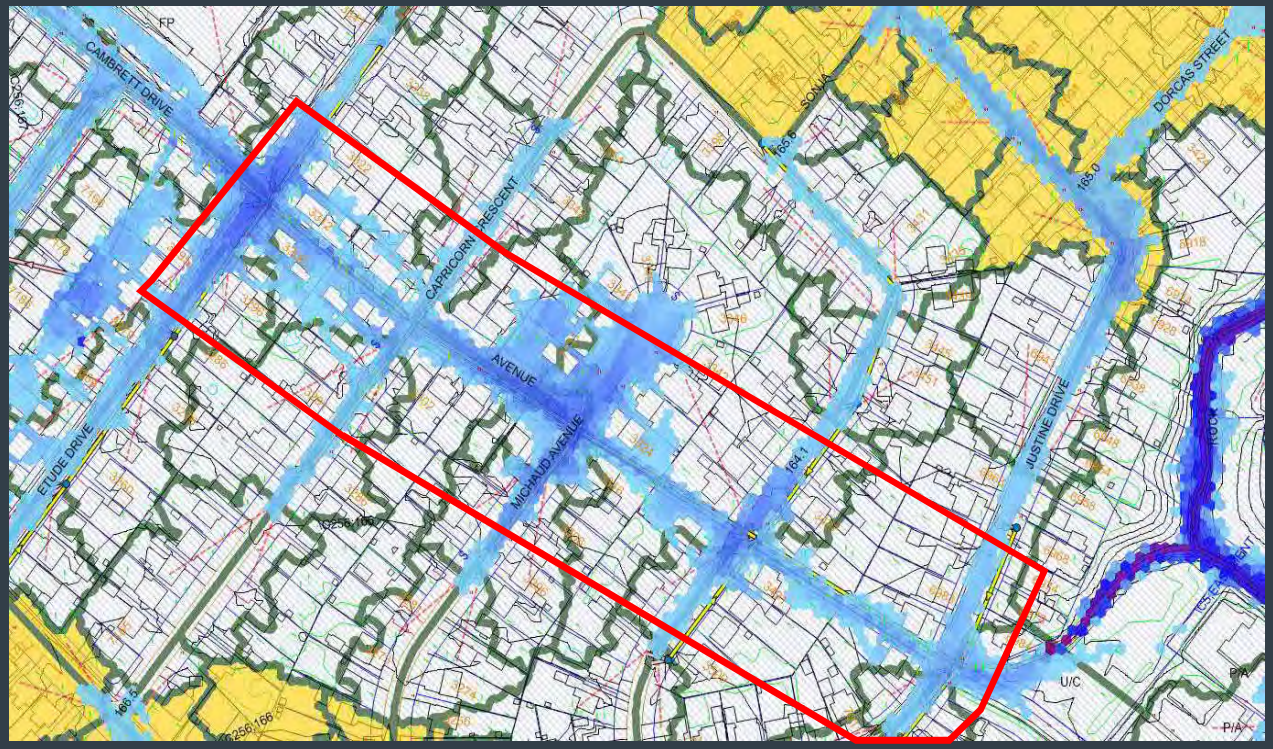
- AECOM was retained to analyze impacts in Flood Cluster 6
- The 1D-2D PCSWMM models Matrix prepared were obtained by AECOM
- The model was truncated to focus on Flood cluster 6 and reduce run time
- Within Flood Cluster 6 the minor system had previously not been included, and so as-built information was obtained from the City and existing storm sewers were added to the model within the study area and upstream
- Subcatchment and rain gauge data were adjusted accordingly, and inlets were added
- The updated PCSWMM model was run for all storm events to determine the existing minor and major conditions for the flood cluster

EXISTING CONDITIONS

During a 100-year storm 37 houses would be impacted along the overland flow easement from Etude Dr. to Justine Dr.

(100-year floodlines shown in figure)

For more frequent storm events houses are impacted by flooding as well. Existing modelling shows that 9 houses are impacted during a 2-year storm and 14 are impacted during a 5-year.



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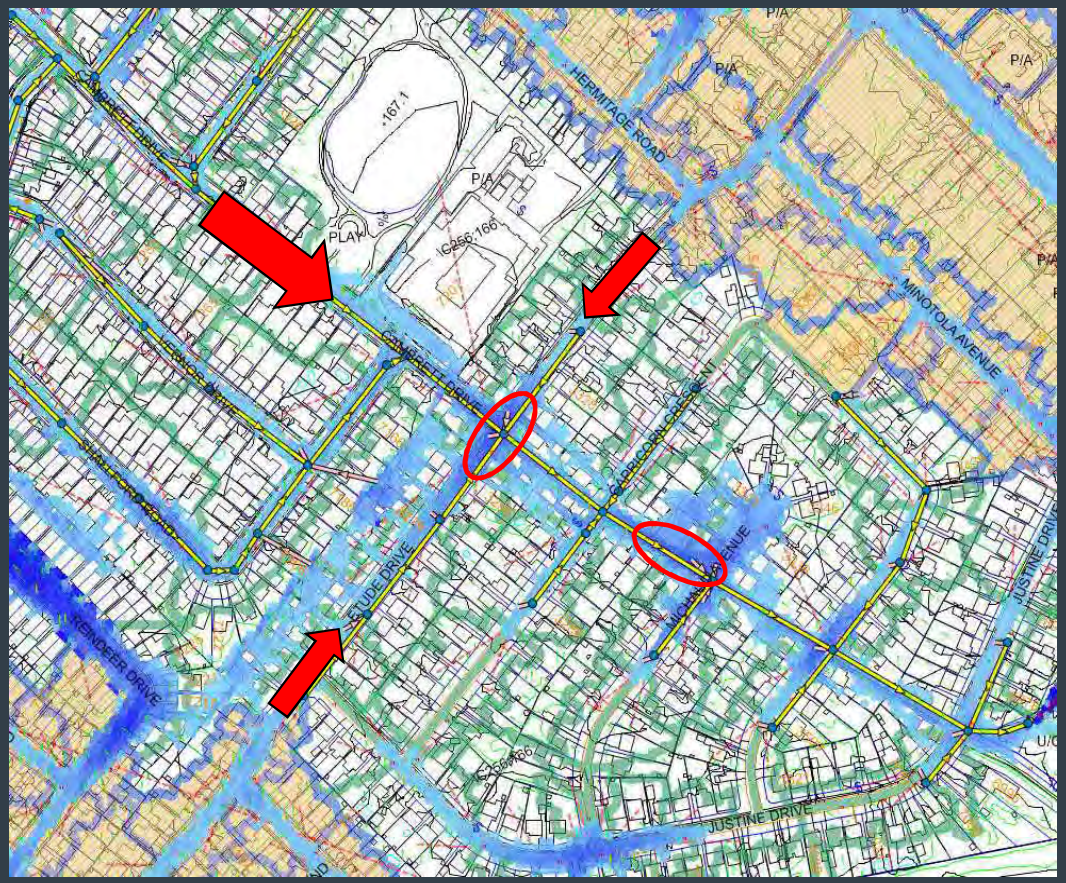
EXISTING CONDITIONS

- The top end of the easement (at Etude) is receiving minor and major flow from the east, west and north (arrows)
- The minor system in this area is not able to capture and convey even the 2-year event
- The existing easement was not designed to convey significant flows, as it is flush with adjacent properties
- Existing depressions along the easement result in significant ponding before spilling to the downstream section (main depressions circled)
- The entire area seems to act like a basin during storm events, filling up and flooding properties until spilling downstream



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EXISTING CONDITIONS

Photos of the existing easement

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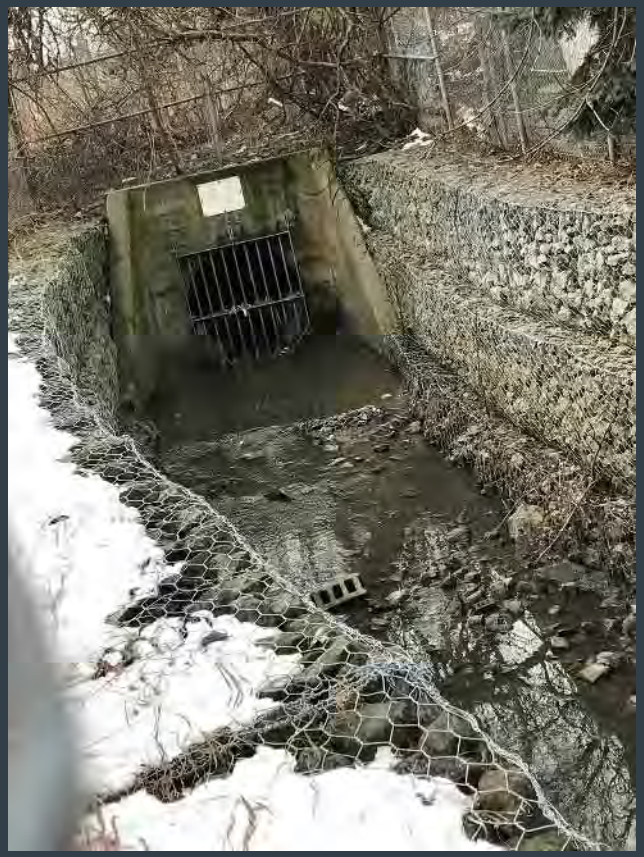
EXISTING CONDITIONS

Photos of the outfall channel



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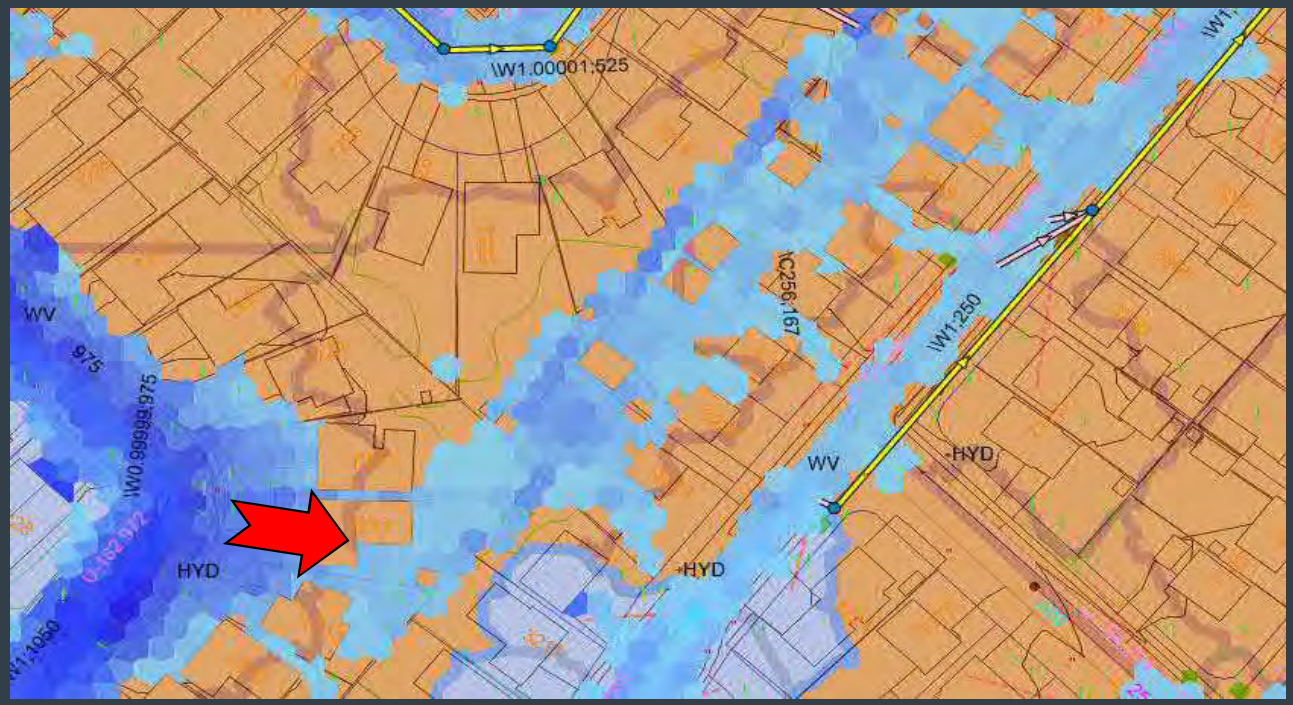
EXISTING CONDITIONS

- Flooding along the north side of Etude Dr. is due to upstream flooding on Reindeer Dr. which spills to the lower backyards on Etude
- Reindeer Dr. is within Flood Cluster 7, not within the scope of this project
- The impacted houses along Etude Dr. were not accounted for in the Flood Cluster 6 tally
- However, the spill from this area to Etude Dr. was accounted for in the modelling of alternatives



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PROPOSED CONDITIONS

- A long list of possible alternatives was put together to ensure that all mitigation measures were considered, possibly in combination, in hopes to eliminate flooding impacts within Flood Cluster 6
- In total, eleven possible solutions were included on the long list for consideration
- The long list includes different types of quantity control measures, including;
  - conveyance measures
  - storage / retention solutions
  - LID measures
  - Note: Source Control measures were not considered primarily due to their expected small impact on flood reduction for the larger storm events and inability for the City to ensure maintenance

PROPOSED CONDITIONS

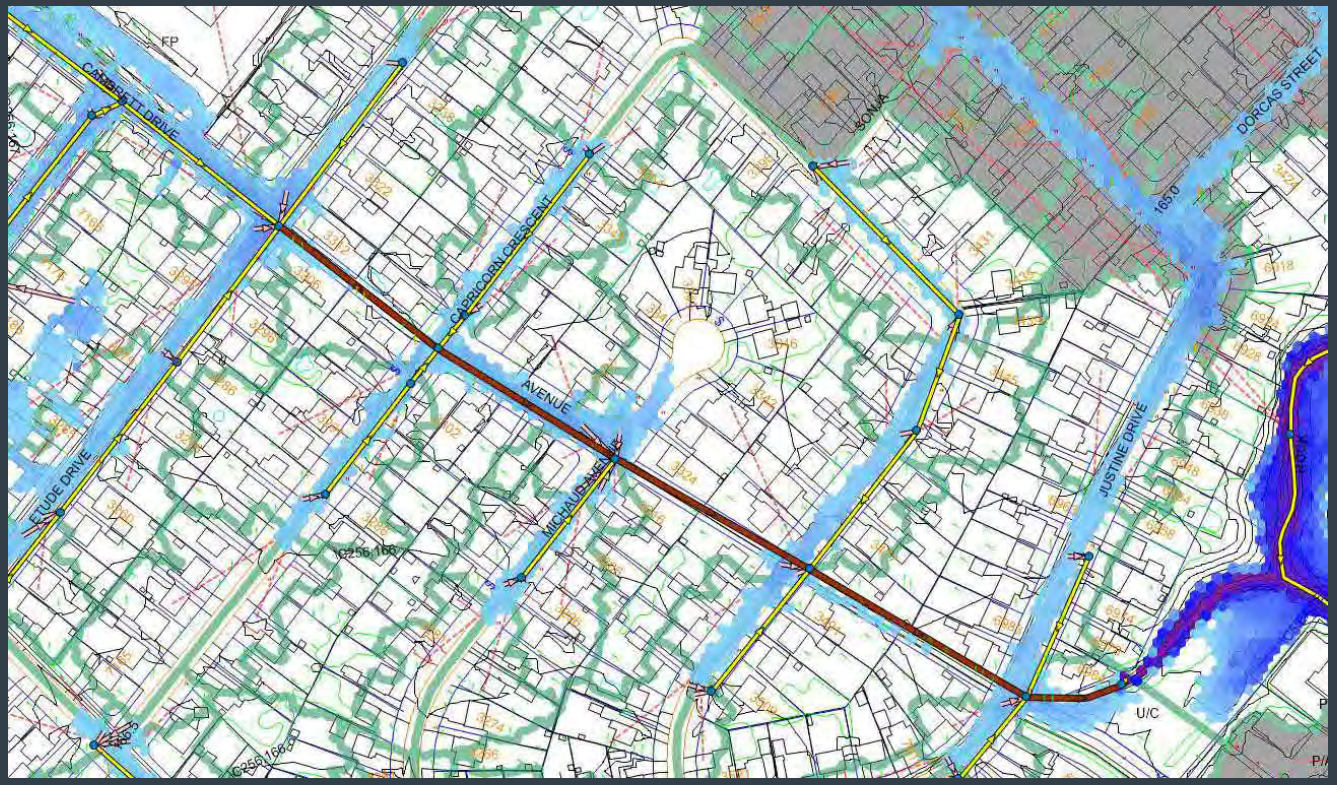
- These possible solutions were evaluated against five criteria;
  - Constructability
  - General cost
  - Social disruption
  - Environmental impact
  - Flood reduction
- The long list was then reduced to a short list of five possible alternatives, which are combinations of the remaining long list solutions

PROPOSED CONDITIONS

- LID alternatives were found to have too small an impact on flood reduction for the larger storm events
- Storage alternatives would work in theory, however, the required storage volume would be significant, resulting in very disruptive construction and impractically high costs, while still leaving many homes effected by flooding
- A conveyance solution would be the most practical and cost-effective for the study area
  - The capture capacity would have to increase as well as the conveyance capacity
  - The flow at the outfall would increase and should therefore be analysed to determine impacts downstream

PRELIMINARY PREFERRED SOLUTION

- Replace 1650mm storm sewer with 1.7m x 2.7m box sewer in City's easement
- Add several, possibly custom, catch basins along sewer replacement
- Provide flow dissipation at outfall, if possible
- Most effective at reducing the number of homes effected during the 100-year event (only 4 houses remain impacted)
- Most cost effective solution
- Would cause some disruption for adjacent residents



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DOWNSTREAM IMPACTS

- Impacts of the preferred alternative were considered downstream of the site
- The 12-hour AES storm was run through PCSWMM to determine existing and proposed flows at the outfall for the 100-year storm as well as the Regional event

	Peak Flow (m^3/s)			% Increase
	Existing	Proposed	Increase	
12hr AES 100-year storm	9.61	11.38	1.76	18%
Regional event	10.07	13.50	3.43	34%

– These increases were modelled by updating the hydrology model to account for the flow increase at the outfall and determine flow impacts downstream
– The proposed flows were then input into HEC-RAS to determine impacts to downstream water levels

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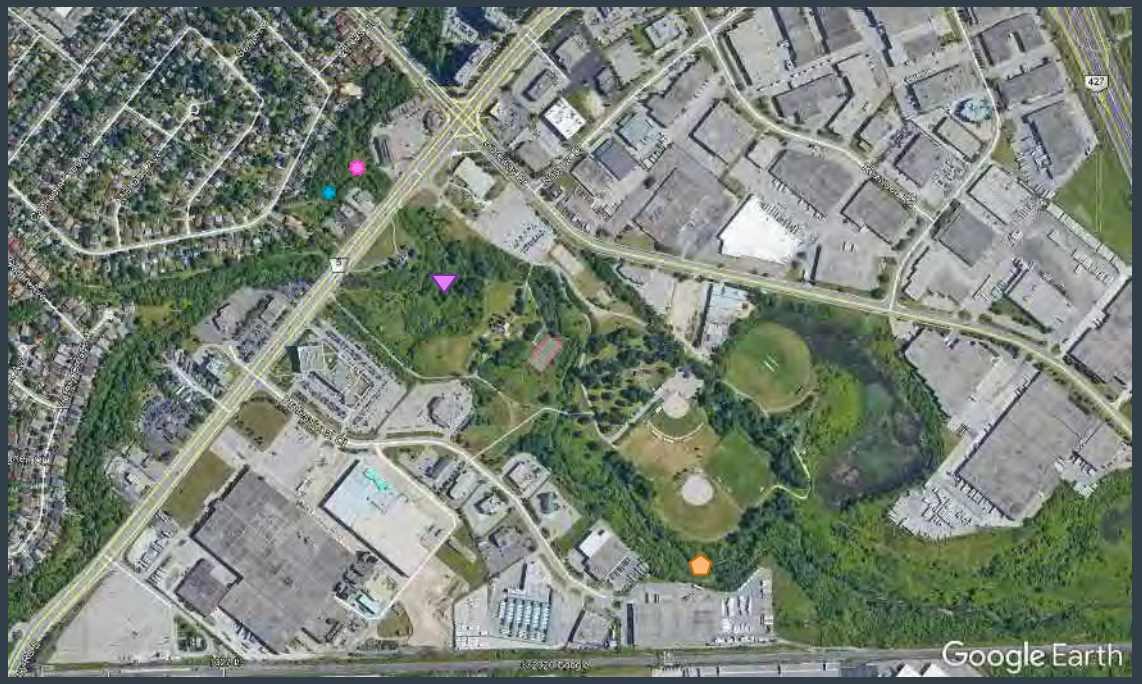
DOWNSTREAM IMPACTS

- The VH model was updated to represent proposed conditions for Catchment 134 (which encompasses the entire drainage area to the outfall), increasing the 100-year peak flow to 11.4 m^3/s to match PCSWMM
- By the tributary confluence just south of Derry Road, the increase is less than 1%

Hydrology Comparison Downstream

		100yr		Difference		
VH Node	*Approx. Location*	*Ex. Q*	*Prop. Q*	*m^3/s*	*%*	
134	Outfall	9.50	11.37	1.87	19.7%	
221	Outfall merges w Creek	51.20	53.07	1.87	3.7%	
233	East & West Confluence	103.11	104.98	1.87	1.8%	
240	B/w soccer field & Home Depot	89.85	90.24	0.39	0.4%	1km D/S
241	D/S rail crossing	90.00	90.46	0.46	0.5%	
224	U/S Hwy 427	116.21	118.38	2.17	1.9%	
225	U/S Hwy 409	100.60	101.56	0.96	1.0%	
251	D/S Hwy 409	112.34	113.80	1.46	1.3%	
254	Dixon Rd.	107.07	108.03	0.97	0.9%	
246	Eglinton	113.18	114.28	1.10	1.0%	
249	Near Milburn Dr.	115.29	116.40	1.11	1.0%	
250	Rathburn	116.11	117.12	1.00	0.9%	11.6km D/S



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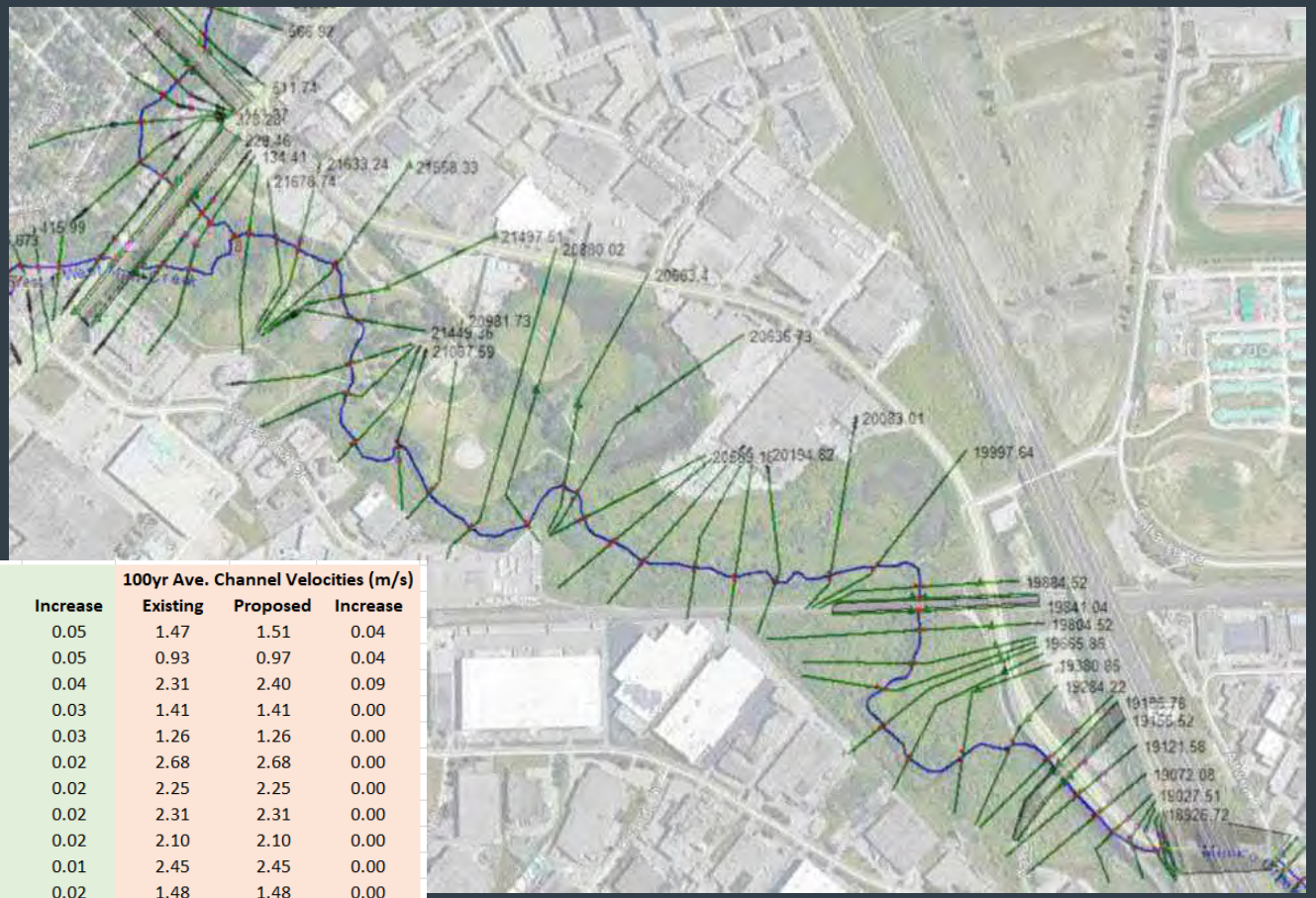
DOWNSTREAM IMPACTS

- The proposed flows were included in HEC-RAS to determine water level and velocity changes downstream for the 100-year event



Water Surface Elevations to Compare (not all)				100-year			100yr Ave. Channel Velocities (m/s)		
River	Reach	RS	Location	Existing	Proposed	Increase	Existing	Proposed	Increase
East Mim Creek	East 1	306.98	U/S of outfall	162.59	162.64	0.05	1.47	1.51	0.04
East Mim Creek	East 1	233.17	@ Outfall	162.60	162.65	0.05	0.93	0.97	0.04
East Mim Creek	East 1	157.31	U/S Derry	162.29	162.33	0.04	2.31	2.40	0.09
East Mim Creek	East 1	61.73	U/S of confluence	162.11	162.14	0.03	1.41	1.41	0.00
Mimico Creek	3	21729.24	Confluence D/S Derry	162.11	162.14	0.03	1.26	1.26	0.00
Mimico Creek	3	21633.24	100m D/S of confluence	161.67	161.69	0.02	2.68	2.68	0.00
Mimico Creek	3	21497.51	230m D/S of confluence	161.32	161.34	0.02	2.25	2.25	0.00
Mimico Creek	3	21353.5	375m D/S of confluence	161.15	161.17	0.02	2.31	2.31	0.00
Mimico Creek	3	21197.67	530m D/S of confluence	160.78	160.80	0.02	2.10	2.10	0.00
Mimico Creek	3	20981.73	750m D/S of confluence	160.14	160.15	0.01	2.45	2.45	0.00
Mimico Creek	3	20768.48	960m D/S of confluence	160.16	160.18	0.02	1.48	1.48	0.00
Mimico Creek	3	20636.73	1.1km D/S of confluence	159.74	159.76	0.02	1.36	1.37	0.01
Mimico Creek	3	20194.82	1.5km D/S of confluence	158.98	159.01	0.03	1.90	1.90	0.00
Mimico Creek	3	19741.48	2.0km D/S of confluence	157.95	157.97	0.02	2.00	2.00	0.00
Mimico Creek	3	19206.7	2.5km D/S of confluence	156.69	156.70	0.01	3.78	3.79	0.01
Mimico Creek	3	18704.8	3.0km D/S of confluence	155.65	155.67	0.02	2.63	2.63	0.00
Mimico Creek	3	18206.91	3.5km D/S of confluence	154.55	154.56	0.01	1.67	1.68	0.01

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DOWNSTREAM IMPACTS

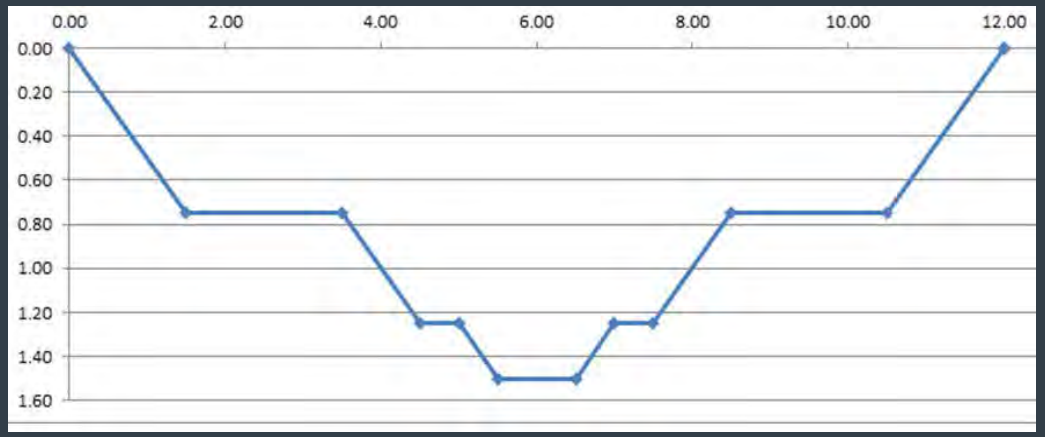
- The Regional event was to be analysed, however, the existing hydrology model shows a peak flow of 14.56 m^3/s for Catchment 134, which is already higher than the PCSWMM proposed flow of 13.50 m^3/s
- Since the PCSWMM model is more detailed and complex, and therefore more accurate than the VH model, it is assumed that the existing Regional VH model already accounts for the increase of flow at the outfall, and does not need to be updated for proposed conditions
- Derry Road is currently overtopped in a Regional event, as are all bridges along the East tributary
- For the 100-year event, the bridge does not quite meet clearance and freeboard criteria under existing conditions

DOWNSTREAM IMPACTS

- Flow Dissipation / reduction at the outfall has been reviewed at a high level to mitigate impacts at the outfall
- With the reconstruction of the outfall, in-channel strategies can be easily implemented
- The effects of flow reduction will be further studied at the detailed design phase
- Storage solutions at the outfall were found to be very costly and unfeasible due to the location being within the floodplain
- AECOM will keep up to date with the erosion mitigation and park master plan nearby

DOWNSTREAM IMPACTS

The cross-section of the existing outfall channel is quite confined, with steep gabion banks, as shown in the photo below. A new outfall structure may provide an opportunity for the downstream channel to be revitalised, to reduce flows and mitigate erosion. The cross-section below gives an example of a possible channel design. Lengthening the channel and decreasing slope would also help to dissipate flows.



Once the preferred cross-section is chosen, the specific dimensions and vegetated cover would be determined at the detailed design stage.

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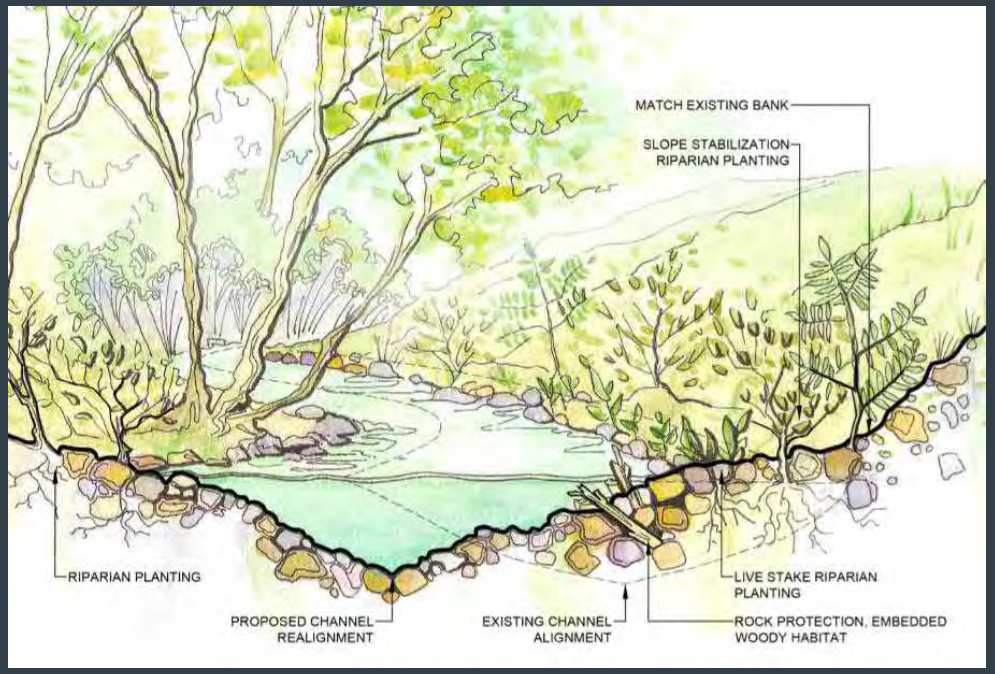
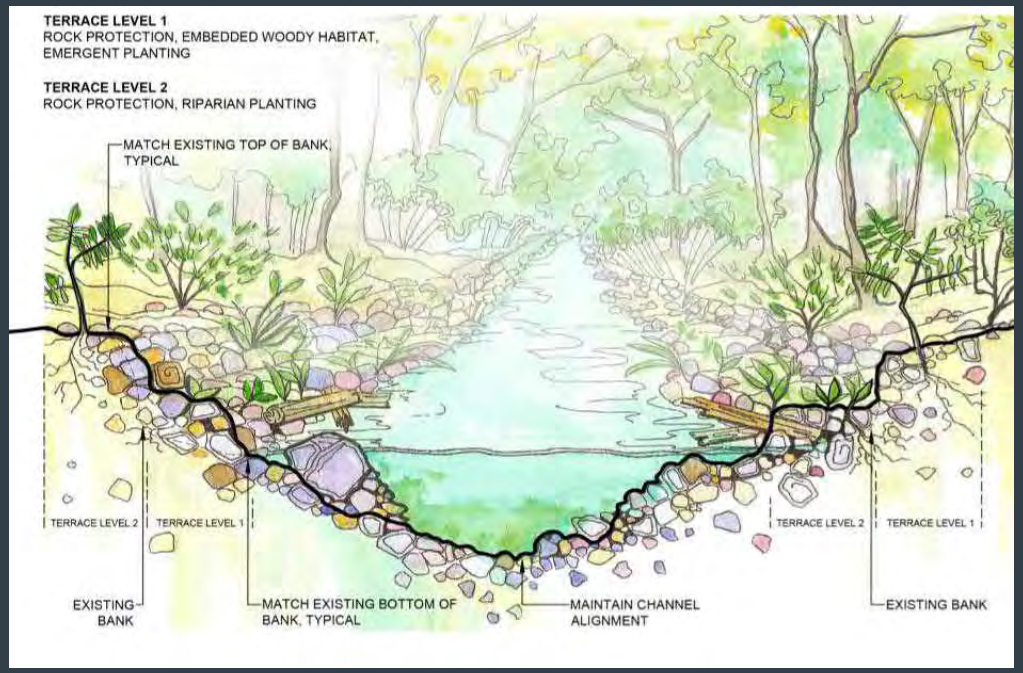
DOWNSTREAM IMPACTS

More examples of channel concepts…





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CONCLUSION

- The flooding risks within Flood Cluster 6 need to be addressed to ensure the safety of the public and protection of private property
- Several alternatives were investigated to determine which would be most effective, feasible and economical
- The preliminary preferred solution is to upsize the trunk storm sewer and add inlets to capture and convey the additional flow
- The proposed sewer will result in 33 fewer houses impacted during a 100-year storm, but will have a higher peak flow at the outfall
- The increase in flow at the outfall will cause slight increases to flows and water levels downstream, localised upstream of the confluence
- Flow dissipation / reduction at the outfall may help mitigate impacts downstream

NEXT STEPS

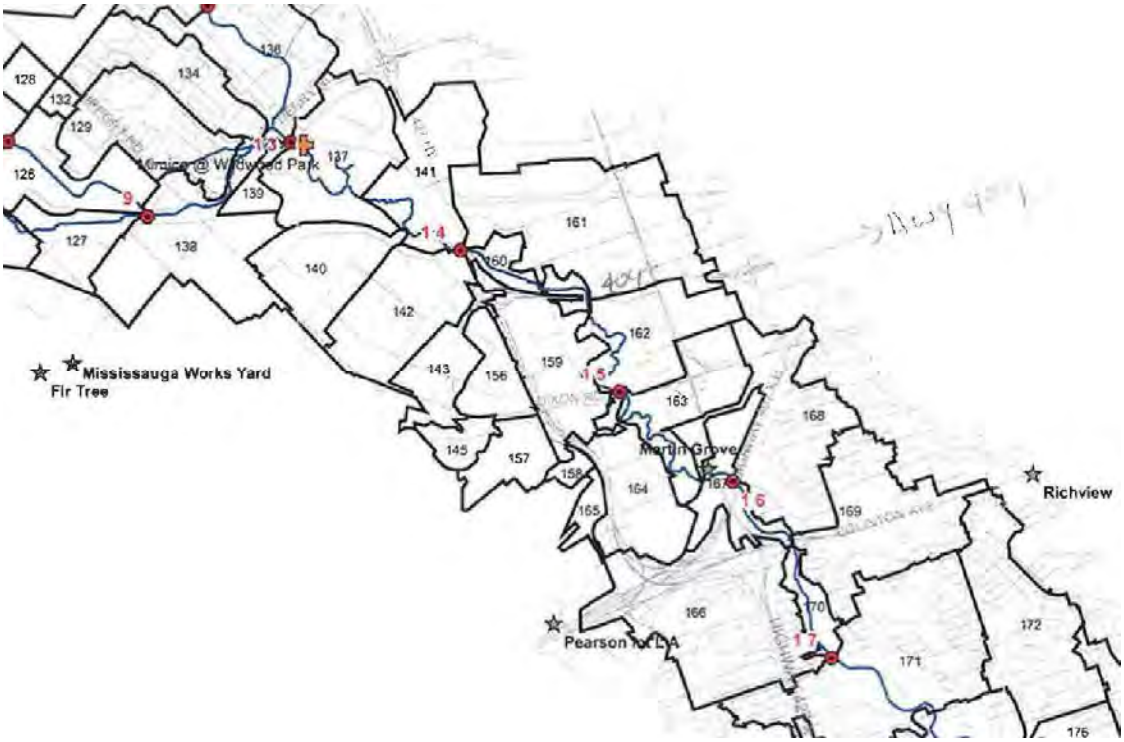
- All relative agencies to work towards preferred solution
  - Current planned studies;
    - natural environment
    - heritage assessment
    - archeology assessment
    - fluvial geomorphology
    - landscape architect
    - arborist
- Move forward with preliminary design to complete EA process, including PIC
- Detailed design of preferred solution

Appendix C

Hydrology Modelling Files

Hydrology Modelling

Model Subcatchments



Existing Model Output – Catchment 134

```
---------------------
| CALIB             |
| STANDHYD  (0134) |   Area    (ha)= 105.90
|ID= 1 DT=15.0 min |   Total Imp(%)=  38.00   Dir. Conn.(%)=
38.00
---------------------
                        IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=     40.24       65.66
    Dep. Storage     (mm)=      2.00        6.00
    Average Slope    (%)=      1.00        1.00
    Length           (m)=    840.24       40.00
    Mannings n           =     0.013       0.250

    Max.Eff.Inten.(mm/hr)=     40.71       29.74
            over (min)       15.00       30.00
    Storage Coeff.  (min)=      6.00 (ii)   18.00 (ii)
    Unit Hyd. Tpeak (min)=     15.00       15.00
    Unit Hyd. peak  (cms)=      0.10        0.06
                                    *TOTALS*
    PEAK FLOW        (cms)=     4.55        4.95        9.502 (iii)
```

TIME TO PEAK (hrs)= 5.25 5.25 5.25
RUNOFF VOLUME (mm)= 86.54 49.26 63.43
TOTAL RAINFALL (mm)= 88.54 88.54 88.54
RUNOFF COEFFICIENT = 0.98 0.56 0.72

Proposed Model Output – Catchment 134

| CALIB |
| STANDHYD (0134)| Area (ha)= 105.90
|ID= 1 DT=15.0 min | Total Imp(%)= 38.00 Dir. Conn.(%)= 38.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	40.24	65.66
Dep. Storage (mm)=	0.00	1.00
Average Slope (%)=	1.00	1.00
Length (m)=	840.24	40.00
Mannings n =	0.013	0.250
Max.Eff.Inten.(mm/hr)=	40.71	37.50
over (min)	15.00	30.00
Storage Coeff. (min)=	6.00 (ii)	6.00 (ii)
Unit Hyd. Tpeak (min)=	15.00	15.00
Unit Hyd. peak (cms)=	0.10	0.10
	TOTALS	
PEAK FLOW (cms)=	4.55	6.82 **11.373** (iii)
TIME TO PEAK (hrs)=	5.25	5.25 5.25
RUNOFF VOLUME (mm)=	88.54	69.90 76.99
TOTAL RAINFALL (mm)=	88.54	88.54 88.54
RUNOFF COEFFICIENT =	1.00	0.79 0.87

Appendix D

Hydraulic Modelling Files

HEC-RAS Modelling

Geometry:

Existing Conditions Output (100-year Event):

HEC-RAS Plan: Plan 03 Locations: User Defined Profile: 100 YR

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East Mim Creek	East 1	446.07	100 YR	51.20	160.19	162.69	161.93	162.92	0.002289	2.32	31.80	22.45	0.49
East Mim Creek	East 1	411.67	100 YR	51.20	159.46	162.71	161.39	162.82	0.000834	1.64	58.72	44.40	0.31
East Mim Creek	East 1	374.99	100 YR	51.20	159.69	162.67	161.74	162.78	0.001028	1.83	58.32	41.93	0.34
East Mim Creek	East 1	306.98	100 YR	51.20	159.47	162.64	161.50	162.72	0.000618	1.47	62.30	37.69	0.27
East Mim Creek	East 1	233.17	100 YR	51.20	159.42	162.65	161.17	162.67	0.000243	0.93	139.37	123.60	0.17
East Mim Creek	East 1	183.95	100 YR	51.20	159.38	162.54	161.35	162.64	0.000898	1.77	57.99	32.30	0.32
East Mim Creek	East 1	157.31	100 YR	51.20	159.11	162.36	161.33	162.58	0.001639	2.31	36.02	20.61	0.43
East Mim Creek	East 1	152.31		Bridge									
East Mim Creek	East 1	116.38	100 YR	51.20	158.90	162.08	161.09	162.32	0.001752	2.38	33.30	18.62	0.44
East Mim Creek	East 1	84.8	100 YR	51.20	158.81	162.06	160.99	162.23	0.001357	2.13	42.99	24.49	0.39
East Mim Creek	East 1	61.73	100 YR	51.20	158.72	162.11	160.53	162.19	0.000526	1.41	68.67	38.72	0.25
Mimico Creek	3	21729.24	100 YR	103.11	158.62	162.11	160.65	162.14	0.000468	1.26	228.46	155.81	0.23
Mimico Creek	3	21678.74	100 YR	103.11	158.61	161.98	160.53	162.10	0.000799	1.70	102.04	68.15	0.31
Mimico Creek	3	21633.24	100 YR	103.11	158.71	161.67	160.76	162.02	0.002354	2.68	48.16	31.01	0.51
Mimico Creek	3	21558.33	100 YR	103.11	158.40	161.25	161.04	161.77	0.004214	3.47	48.78	40.01	0.68
Mimico Creek	3	21497.51	100 YR	103.11	158.35	161.32	160.92	161.48	0.001976	2.25	88.86	90.18	0.45
Mimico Creek	3	21449.36	100 YR	103.11	158.09	161.38	159.49	161.41	0.000252	0.96	170.15	104.72	0.17
Mimico Creek	3	21353.5	100 YR	103.11	157.95	161.15	160.39	161.35	0.001693	2.31	95.88	100.92	0.43
Mimico Creek	3	21296.13	100 YR	103.11	157.90	160.79	160.64	161.19	0.003607	3.19	59.84	69.06	0.62
Mimico Creek	3	21197.67	100 YR	103.11	157.65	160.78	160.14	160.93	0.001309	2.10	105.14	78.48	0.39
Mimico Creek	3	21087.59	100 YR	103.11	157.62	160.33	159.85	160.71	0.003709	3.05	53.07	34.12	0.63
Mimico Creek	3	20981.73	100 YR	103.11	157.21	160.14	159.31	160.40	0.002024	2.45	65.66	54.18	0.47
Mimico Creek	3	20880.02	100 YR	103.11	156.93	160.25	159.50	160.26	0.000281	0.98	345.82	464.21	0.18
Mimico Creek	3	20768.48	100 YR	103.11	156.98	160.16	159.48	160.21	0.000694	1.48	196.59	438.76	0.28
Mimico Creek	3	20663.4	100 YR	103.11	156.79	159.47	159.08	160.01	0.004530	3.43	42.67	48.28	0.70
Mimico Creek	3	20636.73	100 YR	103.11	156.70	159.74	158.66	159.79	0.000695	1.36	237.62	328.63	0.27
Mimico Creek	3	20589.16	100 YR	103.11	156.74	159.51	159.14	159.69	0.002030	2.33	105.69	107.37	0.46
Mimico Creek	3	20517.52	100 YR	103.11	156.63	159.40	158.92	159.55	0.001784	2.15	109.30	99.43	0.44
Mimico Creek	3	20450.73	100 YR	103.11	156.49	159.34	158.72	159.44	0.001238	1.88	132.55	106.32	0.37
Mimico Creek	3	20354.15	100 YR	103.11	156.26	159.17	158.57	159.32	0.001630	2.15	103.27	76.12	0.42
Mimico Creek	3	20277.16	100 YR	103.11	155.95	159.06	158.41	159.20	0.001517	2.18	110.24	77.37	0.41
Mimico Creek	3	20194.82	100 YR	103.11	155.72	158.98	158.20	159.09	0.001107	1.90	123.00	80.02	0.35
Mimico Creek	3	20083.01	100 YR	103.11	155.63	158.93	158.15	158.98	0.000625	1.46	204.53	163.72	0.27
Mimico Creek	3	19997.64	100 YR	103.11	155.72	158.93	157.76	158.94	0.000161	0.75	395.40	246.44	0.14
Mimico Creek	3	19884.52	100 YR	103.11	155.47	158.85	158.05	158.90	0.000777	1.47	172.29	133.93	0.29
Mimico Creek	3	19862.54	100 YR	103.11	155.18	158.16	157.67	158.72	0.004458	3.35	34.34	18.15	0.68
Mimico Creek	3	19859.54		Bridge									
Mimico Creek	3	19841.04	100 YR	103.11	155.00	157.87	157.50	158.58	0.005290	3.80	31.53	17.24	0.76
Mimico Creek	3	19804.52	100 YR	103.11	154.91	157.98	157.79	158.22	0.002346	2.68	98.53	108.25	0.51
Mimico Creek	3	19741.48	100 YR	103.11	155.00	157.95	157.52	158.07	0.001515	2.00	128.82	116.29	0.40
Mimico Creek	3	19665.86	100 YR	103.11	154.80	157.90	156.93	157.99	0.000807	1.60	143.93	122.78	0.30
Mimico Creek	3	19571.94	100 YR	103.11	154.78	157.52	157.45	157.85	0.003548	2.92	78.69	101.60	0.60
Mimico Creek	3	19494.39	100 YR	103.11	154.37	157.51	156.54	157.66	0.001299	2.07	123.50	125.75	0.39
Mimico Creek	3	19380.85	100 YR	103.11	154.16	157.46	155.92	157.55	0.000664	1.53	116.97	81.52	0.28
Mimico Creek	3	19284.22	100 YR	103.11	154.00	157.39	155.70	157.49	0.000617	1.51	104.86	69.31	0.27
Mimico Creek	3	19206.7	100 YR	103.11	154.20	156.70	156.41	157.33	0.005884	3.78	40.45	30.69	0.80
Mimico Creek	3	19186.78	100 YR	100.60	153.78	156.88	155.78	157.12	0.000290	2.20	45.70	18.69	0.45
Mimico Creek	3	19178.78		Bridge									
Mimico Creek	3	19156.52	100 YR	100.60	153.16	156.70	155.10	156.87	0.000161	1.87	53.68	18.60	0.34
Mimico Creek	3	19121.58	100 YR	100.60	153.32	156.60	155.33	156.84	0.001477	2.29	56.71	27.87	0.41
Mimico Creek	3	19072.08	100 YR	100.60	153.26	156.56	155.20	156.76	0.001257	2.08	63.18	41.07	0.38
Mimico Creek	3	19027.51	100 YR	100.60	153.27	156.32	155.47	156.67	0.002466	2.82	50.24	24.75	0.53
Mimico Creek	3	18986.36	100 YR	100.60	153.07	156.44	154.75	156.55	0.000649	1.53	80.18	34.63	0.28
Mimico Creek	3	18939.47	100 YR	100.60	152.94	156.33	155.18	156.51	0.001273	2.12	65.06	30.57	0.38
Mimico Creek	3	18926.72	100 YR	100.60	152.93	156.30	155.13	156.49	0.001370	2.16	61.17	27.77	0.40
Mimico Creek	3	18917.39	100 YR	100.60	152.82	156.27	154.73	156.48	0.000191	2.02	49.89	18.49	0.37
Mimico Creek	3	18899.39		Culvert									
Mimico Creek	3	18704.8	100 YR	100.60	152.46	155.65	154.48	156.01	0.000420	2.63	38.18	13.11	0.49
Mimico Creek	3	18684.04	100 YR	100.60	152.42	155.66	154.51	155.99	0.000378	2.56	39.37	14.36	0.49
Mimico Creek	3	18647.28	100 YR	100.60	152.41	155.67	154.54	155.95	0.001756	2.42	48.27	22.21	0.45
Mimico Creek	3	18606.35	100 YR	100.60	152.29	155.56	154.57	155.87	0.001986	2.65	51.74	27.80	0.48
Mimico Creek	3	18553.78	100 YR	100.60	152.31	155.54	154.45	155.75	0.001484	2.24	76.74	50.99	0.41
Mimico Creek	3	18477.15	100 YR	100.60	152.01	155.42	154.37	155.63	0.001475	2.28	78.88	55.00	0.41
Mimico Creek	3	18374.62	100 YR	100.60	151.68	155.20	154.02	155.47	0.001666	2.39	61.30	42.97	0.43
Mimico Creek	3	18271.42	100 YR	100.60	151.46	154.29	154.29	155.09	0.007699	4.08	31.84	28.94	0.88
Mimico Creek	3	18206.91	100 YR	100.60	151.35	154.56	153.43	154.66	0.000877	1.67	127.51	97.74	0.32

Proposed Conditions Output (100-year event):

HEC-RAS Plan: 2 Locations: User Defined Profile: 100 YR

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
East Mim Creek	East 1	446.07	100 YR	51.20	160.19	162.65	161.93	162.89	0.002461	2.38	31.00	21.79	0.51
East Mim Creek	East 1	411.67	100 YR	51.20	159.46	162.67	161.39	162.78	0.000890	1.68	56.83	43.62	0.32
East Mim Creek	East 1	374.99	100 YR	51.20	159.69	162.62	161.74	162.74	0.001118	1.89	56.29	41.65	0.36
East Mim Creek	East 1	306.98	100 YR	51.20	159.47	162.59	161.50	162.67	0.000668	1.51	60.40	37.45	0.28
East Mim Creek	East 1	233.17	100 YR	51.20	159.42	162.60	161.17	162.62	0.000270	0.97	133.02	122.80	0.18
East Mim Creek	East 1	183.95	100 YR	51.20	159.38	162.48	161.35	162.59	0.000978	1.82	56.10	32.02	0.34
East Mim Creek	East 1	157.31	100 YR	51.20	159.11	162.29	161.33	162.52	0.001829	2.40	34.54	20.11	0.45
East Mim Creek	East 1	152.31		Bridge									
East Mim Creek	East 1	116.38	100 YR	51.20	158.90	162.08	161.09	162.31	0.001753	2.38	33.29	18.62	0.44
East Mim Creek	East 1	84.8	100 YR	51.20	158.81	162.06	160.98	162.23	0.001358	2.13	42.99	24.48	0.39
East Mim Creek	East 1	61.73	100 YR	51.20	158.72	162.11	160.53	162.19	0.000527	1.41	68.66	38.72	0.25
Mimico Creek	3	21729.24	100 YR	103.11	158.62	162.11	160.64	162.14	0.000469	1.26	228.40	155.80	0.23
Mimico Creek	3	21678.74	100 YR	103.11	158.61	161.98	160.51	162.10	0.000799	1.70	102.01	68.14	0.31
Mimico Creek	3	21633.24	100 YR	103.11	158.71	161.67	160.77	162.02	0.002354	2.68	48.15	31.01	0.51
Mimico Creek	3	21558.33	100 YR	103.11	158.40	161.25	161.04	161.77	0.004213	3.47	48.79	40.01	0.68
Mimico Creek	3	21497.51	100 YR	103.11	158.35	161.32	160.92	161.48	0.001978	2.25	88.84	90.18	0.45
Mimico Creek	3	21449.36	100 YR	103.11	158.09	161.38	159.48	161.41	0.000252	0.96	170.12	104.72	0.17
Mimico Creek	3	21353.5	100 YR	103.11	157.95	161.15	160.39	161.35	0.001694	2.31	95.85	100.92	0.43
Mimico Creek	3	21296.13	100 YR	103.11	157.90	160.79	160.64	161.19	0.003607	3.19	59.84	69.06	0.62
Mimico Creek	3	21197.67	100 YR	103.11	157.65	160.78	160.14	160.93	0.001309	2.10	105.12	78.48	0.39
Mimico Creek	3	21087.59	100 YR	103.11	157.62	160.33	159.85	160.71	0.003709	3.05	53.07	34.12	0.63
Mimico Creek	3	20981.73	100 YR	103.11	157.21	160.14	159.31	160.40	0.002024	2.45	65.65	54.18	0.47
Mimico Creek	3	20880.02	100 YR	103.11	156.93	160.24	159.50	160.26	0.000282	0.98	345.69	464.14	0.18
Mimico Creek	3	20768.48	100 YR	103.11	156.98	160.16	159.52	160.21	0.000695	1.48	196.49	438.75	0.28
Mimico Creek	3	20663.4	100 YR	103.11	156.79	159.47	159.09	160.01	0.004529	3.43	42.67	48.29	0.70
Mimico Creek	3	20636.73	100 YR	103.11	156.70	159.74	158.66	159.79	0.000695	1.37	237.55	328.62	0.27
Mimico Creek	3	20589.16	100 YR	103.11	156.74	159.51	159.14	159.69	0.002030	2.33	105.67	107.37	0.46
Mimico Creek	3	20517.52	100 YR	103.11	156.63	159.40	158.92	159.55	0.001785	2.15	109.28	99.43	0.44
Mimico Creek	3	20450.73	100 YR	103.11	156.49	159.34	158.72	159.44	0.001238	1.88	132.52	106.31	0.37
Mimico Creek	3	20354.15	100 YR	103.11	156.26	159.17	158.57	159.32	0.001631	2.15	103.24	76.12	0.42
Mimico Creek	3	20277.16	100 YR	103.11	155.95	159.06	158.42	159.20	0.001518	2.18	110.20	77.37	0.41
Mimico Creek	3	20194.82	100 YR	103.11	155.72	158.98	158.20	159.09	0.001107	1.90	122.97	80.01	0.35
Mimico Creek	3	20083.01	100 YR	103.11	155.63	158.93	158.15	158.98	0.000626	1.46	204.44	163.70	0.27
Mimico Creek	3	19997.64	100 YR	103.11	155.72	158.93	157.77	158.94	0.000161	0.75	395.26	246.44	0.14
Mimico Creek	3	19884.52	100 YR	103.11	155.47	158.85	158.05	158.90	0.000778	1.47	172.21	133.92	0.29
Mimico Creek	3	19862.54	100 YR	103.11	155.18	158.16	157.67	158.72	0.004459	3.35	34.34	18.15	0.68
Mimico Creek	3	19859.54		Bridge									
Mimico Creek	3	19841.04	100 YR	103.11	155.00	157.87	157.50	158.58	0.005289	3.80	31.53	17.24	0.76
Mimico Creek	3	19804.52	100 YR	103.11	154.91	157.98	157.80	158.22	0.002346	2.68	98.52	108.25	0.51
Mimico Creek	3	19741.48	100 YR	103.11	155.00	157.95	157.52	158.07	0.001516	2.00	128.80	116.29	0.40
Mimico Creek	3	19665.86	100 YR	103.11	154.80	157.90	156.93	157.99	0.000807	1.60	143.90	122.78	0.30
Mimico Creek	3	19571.94	100 YR	103.11	154.78	157.52	157.45	157.85	0.003559	2.92	78.55	101.58	0.60
Mimico Creek	3	19494.39	100 YR	103.11	154.37	157.51	156.55	157.66	0.001303	2.07	123.32	125.73	0.39
Mimico Creek	3	19380.85	100 YR	103.11	154.16	157.45	155.92	157.55	0.000666	1.53	116.84	81.51	0.28
Mimico Creek	3	19284.22	100 YR	103.11	154.00	157.39	155.70	157.49	0.000618	1.52	104.74	69.29	0.27
Mimico Creek	3	19206.7	100 YR	103.11	154.20	156.69	156.42	157.33	0.005923	3.79	40.32	30.53	0.80
Mimico Creek	3	19186.78	100 YR	100.60	153.78	156.87	155.78	157.12	0.000291	2.21	45.62	18.69	0.45
Mimico Creek	3	19178.78		Bridge									
Mimico Creek	3	19156.52	100 YR	100.60	153.16	156.70	155.10	156.87	0.000161	1.87	53.67	18.60	0.34
Mimico Creek	3	19121.58	100 YR	100.60	153.32	156.60	155.33	156.84	0.001478	2.29	56.70	27.86	0.41
Mimico Creek	3	19072.08	100 YR	100.60	153.26	156.55	155.20	156.76	0.001258	2.08	63.16	41.06	0.38
Mimico Creek	3	19027.51	100 YR	100.60	153.27	156.32	155.48	156.67	0.002467	2.82	50.23	24.75	0.53
Mimico Creek	3	18986.36	100 YR	100.60	153.07	156.44	154.75	156.55	0.000650	1.53	80.16	34.62	0.28
Mimico Creek	3	18939.47	100 YR	100.60	152.94	156.33	155.18	156.51	0.001274	2.12	65.04	30.57	0.38
Mimico Creek	3	18926.72	100 YR	100.60	152.93	156.30	155.13	156.49	0.001371	2.16	61.16	27.77	0.40
Mimico Creek	3	18917.39	100 YR	100.60	152.82	156.27	154.73	156.48	0.000191	2.02	49.88	18.49	0.37
Mimico Creek	3	18899.39		Culvert									
Mimico Creek	3	18704.8	100 YR	100.60	152.46	155.65	154.47	156.01	0.000420	2.63	38.18	13.11	0.49
Mimico Creek	3	18684.04	100 YR	100.60	152.42	155.66	154.51	155.99	0.000378	2.56	39.37	14.36	0.49
Mimico Creek	3	18647.28	100 YR	100.60	152.41	155.67	154.54	155.95	0.001756	2.42	48.27	22.21	0.45
Mimico Creek	3	18606.35	100 YR	100.60	152.29	155.56	154.57	155.87	0.001986	2.65	51.73	27.80	0.48
Mimico Creek	3	18553.78	100 YR	100.60	152.31	155.54	154.45	155.75	0.001485	2.24	76.73	50.99	0.41
Mimico Creek	3	18477.15	100 YR	100.60	152.01	155.42	154.37	155.63	0.001475	2.28	78.86	55.00	0.41
Mimico Creek	3	18374.62	100 YR	100.60	151.68	155.20	154.02	155.47	0.001667	2.39	61.28	42.96	0.43
Mimico Creek	3	18271.42	100 YR	100.60	151.46	154.29	154.29	155.09	0.007703	4.08	31.83	28.94	0.88
Mimico Creek	3	18206.91	100 YR	100.60	151.35	154.55	153.43	154.64	0.000898	1.68	126.17	97.60	0.32

Appendix E

High Level Cost Breakdowns

Cost Breakdown for Alternaties

**Costs do NOT include HST*

Alternative 1:

Item	Quantity	Unit	Unit Cost	Total Cost	Comments
Remove existing and replace with 1.7 m x 2.7 box culvert - from 3 to 4.5 m depth	465	m	$12,755	$5,931,075	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, removal and disposal of existing, clay trench plug, backfill, asphalt restoration, and pipe supply costs are inclusive. No dewatering is included
Remove existing and replace with 1.7 m x 2.4 box culvert - from 3 to 4.5 m depth	465	m	$12,320	$5,728,800	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, removal and disposal of existing, clay trench plug, backfill, asphalt restoration, and pipe supply costs are inclusive. No dewatering is included
Remove existing MH and replace with XXX - from 3 to 4.5 m depth	5	each	$20,000	$100,000	If you are only considering manhole risers of 1200 mm installed. Price for manhole riser from 3 to 4.5 m is ~8500/each You may need a bulkhead though. The price varies depending on size but would be ~20 k/each for 2.7 x 1.7 culvert
Supply and install double catch basin with inlets		each	$6,000	$0	Assume no removal and disposal of existing
Cold milling of 40 mm	900	m^2	$20	$18,000	Assuming cold milling is appropriate
Remove curb, curb and gutter all types	210	m	$32	$6,720	
concrete curb and gutter	930	m	$90	$83,700	
Superpave 12.5 Traffic Category B PG 64-28, 40 mm thick	267	t	$102	$27,279	when calculating the actual tonnage, assume density of 2500 km/m3
Tack coat	2140	m^2	$0.47	$1,006	
Remove asphalt side walk all thickness	1240	m^2	$85	$105,358	
Pavement to match existing pavement structure including Granular A up to base asphalt - flexible pavement structure	900	m^2	$200	$180,000	

Outfall and Channel Reconstruction

	Cost $/unit	*Unit*	*# Units*	*Cost $*	*Notes / Assumptions*
Removal of existing headwall	$7,200	LS	1	$7,200	*Previous cost estimate includes removal of storm sewer but not headwall, assumed as 15% cost of new headwall
Headwall structure	$48,000	LS	1	$48,000	Estimated based on DeCast Headwall (OPSD 804.04 Modified): W x H = 5506 x 3305, Pipe diam = 2400mm, includes grate but not handrail +50% labour
Clearing and Grubbing	$7	m^2	540	$3,780	Estimated 3m on either side for 90m
Excavation	$48	m^3	203	$9,757	Excavate from existing XS to proposed + 10% for beyond channel
Disposal	$90	m^3	0	$0	50% of non gabion excavation to be removed for disposal
Grading (placing and compacting of materials)	$20	m^3	203	$4,066	Excavation - disposal to be regraded
Planting/Seeding	$12	m^2	594	$7,128	6m x 90m + 10% for beyond channel
Rock protection	$400	m^3	122	$48,600	450mm thick layer * 15m riffle length* channel perim 4.5m * 4 riffle sections
Boulders (+50% for labour)	$188	each	24	$4,500	Assuming 6 boulders / riffle x 4 riffles
Rip rap				$0	Plan to repurpose rocks from gabion baskets
Water management/ESC/unwatering (surface water)	$100,000	LS	1	$100,000	
SUBTOTAL				**$236,967**	
Mob / Demob (5%)				$11,848	
Contract Admin / Engineering Services (1.5%)				$3,554	
Contingency (24%)				$56,872	Survey, fish, trees etc.
TOTAL				**$309,241**	

100-year Design

Replace 1650mm trunk with 1.7m by 2.7m from Etude to outfall	$5,931,075
Replace 5 MHs	$100,000
54 additional inlets (27 DCBs)	$162,000
Realign Easement	$422,062
Subtotal	**$6,615,137**
Mob / Demob (5%)	$330,757
Contingency (10%)	$661,514
Outfall and Channel	$309,241
TOTAL	**$7,916,649**
	$8,000,000

50-year Design

Replace 1650mm trunk with 1.7m by 2.4m from Etude to outfall	$5,728,800
Replace 5 MHs	$100,000
54 additional inlets (27 DCBs)	$162,000
Realign Easement	$422,062
Subtotal	**$6,412,862**
Mob / Demob (5.2%)	$330,757
Contingency (10%)	$641,286
Outfall and Channel	$309,241
TOTAL	**$7,694,146**
	$7,700,000

ALTERNATIVE 2:

Add underground storage beneath a field using StormTech / ADS MC-4500 chambers with a total storage volume of 12,000 m^3, which would cover a footprint of 8,000 m^2	1	each	$3,500,000	$3,500,000	High level quote from ADS says 12,000 m^2 system would cost from $3 - 3.5 million, not including connecting pipes and MHs, or top surface (pavement or sod)
Add underground storage beneath field using MC 4500 chambers with a total storage volume of 11,000 m^3	1	each	$3,208,333	$3,208,333	
Pipes & MHs to connect storage to existing STM	1		$420,000	$420,000	
Sod to recover field	9000	m^2	$10	$90,000	
Soil disposal for 12,000 m^3 storage	16000	m^3	$100	$1,600,000	
Supply and install 1050 mm CL65D sewer and connect to existing - up to 3 m depth	465	m	$3,690	$1,715,850	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, clay trench plug, backfill, asphalt restoration, and pipe supply (CL65D) costs are inclusive.No dewatering is included
1800mm diam MH	5	each	$5,000	$25,000	Estimated installed cost
Supply and install double catch basin with inlets		each	$6,000	$0	Assume no removal and disposal of existing
Cold milling of 40 mm	900	m^2	$20	$18,000	Assuming cold milling is appropriate
Remove curb, curb and gutter all types	210	m	$32	$6,720	
concrete curb and gutter	930	m	$90	$83,700	
Superpave 12.5 Traffic Category B PG 64-28, 40 mm thick	267	t	$102	$27,279	when calculating the actual tonnage, assume density of 2500 km/m3
Tack coat	2140	m^2	$0.47	$1,006	
Remove asphalt side walk all thickness	1240	m^2	$85	$105,358	
Pavement to match existing pavement structure including Granular A up to base asphalt - flexible pavement structure	900	m^2	$200	$180,000	

100-year Design

Storage beneath Ridgefield park - 12,000 m^3 & connecting pipes & sod	$5,610,000
Add 1050mm relief sewer & MHs	$1,740,850
38 additional inlets (19 DCBs)	$114,000
Realign easement	$422,062
Subtotal	**$7,886,912**
Mob / Demob (5%)	$394,346
Contingency (10%)	$788,691
Outfall and Channel	$309,241
TOTAL	**$9,379,190**
	$9,400,000

50-year Design

Storage beneath Ridgefield park - 11,000 m^3 & connecting pipes & sod	$5,177,500
Add 1050mm relief sewer & MHs	$1,740,850
38 additional inlets (19 DCBs)	$114,000
Realign easement	$422,062
Subtotal	**$7,454,412**
Mob / Demob (5.3%)	$394,346
Contingency (10%)	$745,441
Outfall and Channel	$309,241
TOTAL	**$8,903,440**
	$8,900,000

ALTERNATIVE 3:

Bioswale	150	m^2	$398	$59,700	
Supply and install 1 m x 1.5 m box culvert - from 3 to 4.5 depth	100	m	$4,800	$480,000	Assumed 3 to 4.5 m depth range

100-year / 50-year Design

Storage beneath Ridgefield park - 12,000 m^3 & connecting pipes & sod	$5,610,000
Add 1050mm relief sewer & MHs	$1,740,850
32 additional inlets (16 DCBs)	$96,000
Bioswale & storage beneath	$539,700
Subtotal	**$7,986,550**
Mob / Demob (5%)	$399,328
Contingency (10%)	$798,655
Outfall and Channel	$309,241
TOTAL	**$9,493,774**
	$9,500,000

ALTERNATIVE 4:

100-year Design

Storage beneath Ridgefield park - 12,000 m^3 & connecting pipes & sod	$5,610,000
38 additional inlets (19 DCBs)	$114,000
Bioswale & storage beneath	$539,700
Subtotal	**$6,263,700**
Mob / Demob (5%)	$313,185
Contingency (10%)	$626,370
TOTAL	**$7,203,255**
	$7,300,000

50-year Design

Storage beneath Ridgefield park - 11,000 m^3 & connecting pipes & sod	$5,177,500
38 additional inlets (19 DCBs)	$114,000
Bioswale & storage beneath	$539,700
Subtotal	**$5,831,200**
Mob / Demob (5.4%)	$313,185
Contingency (10%)	$583,120
TOTAL	**$6,727,505**
	$6,800,000

ALTERNATIVE 5:

Etude West of easement - Remove existing and replace with 2.7 m x 5.4 m box culvert - from 3 to 4.5 m	75	m	$33,155	$2,486,625	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, removal and disposal of existing, clay trench plug, backfill, asphalt restoration, and pipe supply costs are inclusive. No dewatering is included
Etude East of easement - Remove existing and replace with 2.4 m x 3.6 m box culvert - from 3 to 4.5 m	95	m	$21,540	$2,046,300	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, removal and disposal of existing, clay trench plug, backfill, asphalt restoration, and pipe supply costs are inclusive. No dewatering is included
Honeysuckle - Remove existing and replace with 2.4 m x 5.1 m box culvert - from 3 to 4.5 m	97	m	$29,240	$2,836,280	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, removal and disposal of existing, clay trench plug, backfill, asphalt restoration, and pipe supply costs are inclusive. No dewatering is included
Michaud - Remove existing and replace with 2.4 m x 3.0 m box culvert - from 3 to 4.5 m	62	m	$18,240	$1,130,880	Shoring system (trench box), break out existing curb, break out and dispose asphalt, excavation of soil, removal and disposal of existing, clay trench plug, backfill, asphalt restoration, and pipe supply costs are inclusive. No dewatering is included
Honeysuckle - Remove existing and replace with 2.4 m x 5.1 m box culvert - from 3 to 4.5 m	176	m	$29,240	$5,146,240	
Michaud - Remove existing and replace with 2.4 m x 3.0 m box culvert - from 3 to 4.5 m	157	m	$18,240	$2,863,680	

100-year Design

Storage beneath Ridgefield park - 12,000 m^3 & connecting pipes & sod	$5,610,000
47 additional inlets (24 DCBs)	$144,000
Realign easement	$422,062
Storage beneath roadways - 3,600 m^3	$8,500,085
Subtotal	**$14,676,147**
Mob / Demob (5%)	$733,807
Contingency (7%)	$1,027,330
TOTAL	**$16,437,284**
	$16,500,000

50-year Design

Storage beneath Ridgefield park - 11,000 m^3 & connecting pipes & sod	$5,177,500
47 additional inlets (24 DCBs)	$144,000
Realign easement	$422,062
Storage beneath roadways - 3,270 m^3	$8,009,920
Subtotal	**$13,753,482**
Mob / Demob (5.3%)	$733,807
Contingency (7%)	$962,744
TOTAL	**$15,450,033**
	$15,500,000

AECOM

Appendix B

Flood Mitigation Preliminary Design Report

Flood Mitigation Preliminary Design Report

Malton Flood Mitigation Culvert

City of Mississauga

60620028

February 2024

Delivering a better world

Statement of Qualifications and Limitations

The attached Report (the "Report") has been prepared by AECOM Canada Ltd. ("AECOM") for the benefit of the Client ("Client") in accordance with the agreement between AECOM and Client, including the scope of work detailed therein (the "Agreement").

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Appendices

Appendix A. Inlet Calculations

1. Introduction

This Preliminary Design Report has been prepared as a supporting document for the implementation of the Malton Flood Cluster 6 project, being undertaken by the City of Mississauga (City). The Report documents the design requirements, inputs and assumptions, preliminary design calculations, and is intended to support permit and/or approval applications to Regulatory Agencies, including but not limited to the Ministry of the Environment, Conservation and Parks (MECP) and Toronto and Region Conservation Authority (TRCA). The Report includes the following design elements:

- Malton Flood Cluster 6 flood mitigation culvert (FMC) from Etude Dr. to outlet - south of Justine Dr. (total length ~ 460 m);
- Honeysuckle Avenue Improvement: Capricorn Crescent to Michaud Avenue – minor and major to FMC;
- Multi Use Trail Improvement: Etude Drive to Capricorn Crescent and Michaud Avenue to Justine Drive – minor and major to FMC;
- Channel Improvements: Justine Drive to Mimico Creek.

This report follows the Conceptual Design Report submitted in March 2021, which contains more information on the EA process.

1.1 Study Objectives

- Refine modelling from the conceptual stage to confirm existing major and minor flow across the site;
- Confirm the size and horizontal and vertical alignment of the FMC, determine location and capacity of inlets and design overland flow route based on these flows.

2. Background

On July 8th 2013, the City of Mississauga (City) experienced a severe rainfall event that caused significant flood damage to public properties in the Malton area. In response, to this occurrence, the Toronto and Region Conservation Authority (TRCA) initiated the Malton Flood Characterization Study in 2018, to investigate and identify existing flood issues within Malton and divided the neighbourhood into clusters for further analysis.

The City, subsequently proceeded with a Municipal Class Environmental Assessment (EA), to complete a flood mitigation plan, including conceptual, preliminary, and detailed designs for Malton Flood Cluster 6. Flood Cluster 6 refers to the flooding at the intersection of Michaud Avenue and Honeysuckle Avenue where inundation of private property occurs during storm events. For the purpose of this project, the study area is defined as the overland flow route along a public walkway and Honeysuckle Avenue from Etude Drive to the storm outfall just south of Justine Drive, as shown in **Figure 2.1**.

Figure 2.1: Study Area

A conceptual SWM Design report was prepared and submitted to the City in March 2021, which went through the stages of preparing a long and then short list of possible alternatives to reduce or eliminate the flooding problem. From that, a preferred alternative in Consultation with the City was selected based on several criteria. This report discusses the modelling and refinement associated with the preferred alternative to determine a final flood mitigation design.

3. Previous Studies

All the documents reviewed for this project are summarized below:

- Malton Flood Characterization Study (Matrix Solutions Inc. 2018)
  - The TRCA commissioned the Malton Flood Characterization Study by Matrix Solutions in 2018 (Matrix Report). This study includes a fairly detailed 1D-2D PCSWMM model of the entire neighbourhood. The model only included the major system (except for one small area) and made some assumptions to account for the minor. The Matrix Model was obtained and modified for this project.
- City of Mississauga GIS data (storm sewer information, property fabric, utilities)
  - The base plan and utilities plan were obtained from the City in CAD form to determine the alignment of the existing storm sewer system as well as other utilities. Engineering plan and profile drawings were also obtained from the City to determine the ground elevation of manholes and catch basins, the pipe size, the inverts and profiles of the existing storm sewer network.
- Crozier Draft design of overland flow path
  - Following the storm on July 8, 2013, the City had retained Crozier & Associates Consulting Engineers (Crozier) to develop a draft design to improve the overland flow route from Etude Drive to Justine Road along the public walkway.
- City of Mississauga “Paul Coffey Master Plan”
  - The City’s “Paul Coffey Park Master Plan” is nearing completion south of the site and will be taken into consideration for the proposed design.
- City of Mississauga “Erosion Control project for Mimico Creek”
  - The City is in the process of completing an erosion control project for Mimico Creek from Etude Drive to Derry Road to rehabilitate the creek and address some existing erosion issues. Any input from this will be considered for the proposed design.
- Amec “July 8th, 2013 Extreme Rainfall Event Summary & Analysis Report”
  - Amec prepared this report for the TRCA and submitted it in December, 2014.
- AECOM “Malton Flood Cluster 6 Stormwater Management Report – Conceptual Design”, March 2021

4. Design Criteria

The following sections outline the Design Criteria applicable to the study area.

4.1 City of Mississauga

City of Mississauga Transportation and Works Department - Development Requirements Manual, effective January 2020:

- **Overland Flow Routes:**
  - No building will be inundated by flooding for storms up to and including the 100-year event;
  - For arterial roads the depth of water shall not exceed the crown of the road;
  - The product of depth of water (m) at the gutter times the velocity of flow (m/s) shall not exceed 0.65 m^2/s; and
  - Flow across intersections shall not be permitted for minor storms (generally 10-year storms).
- **Storm Sewer System**
  - Storm sewer systems shall be designed to accommodate the 10-year storm.

4.2 Toronto Region Conservation Authority (TRCA)

Toronto Region Conservation Authority Stormwater Management Criteria – Version 1.0, August 2012:

- Visual OTTHYMO model for Mimico Creek used to model with return period peak flows based upon 12-hour AES distribution.

4.3 Ministry of Natural Resources (MNR)

Classification and Inflow Design Flood Criteria Technical Bulletin, Ontario Ministry of Natural Resources, August 2011:

- The Depth Velocity product allow maximum 0.37 m^2/s (2x2 rule) on the roadway

5. Existing Conditions

The existing topography, land use, utilities, and major and minor storm systems were examined along the study area to better understand the historical flooding. The following sections describe features of the study area and any possible explanations for the current storm issues.

5.1 Study Area

5.1.1 Land Use & Topography

The land use of this section of Malton is mainly residential. There are a few small businesses south of the study area on the north side of Derry Road. North of the site there is a public school and open field and playground on the east side of Cambrett Drive.

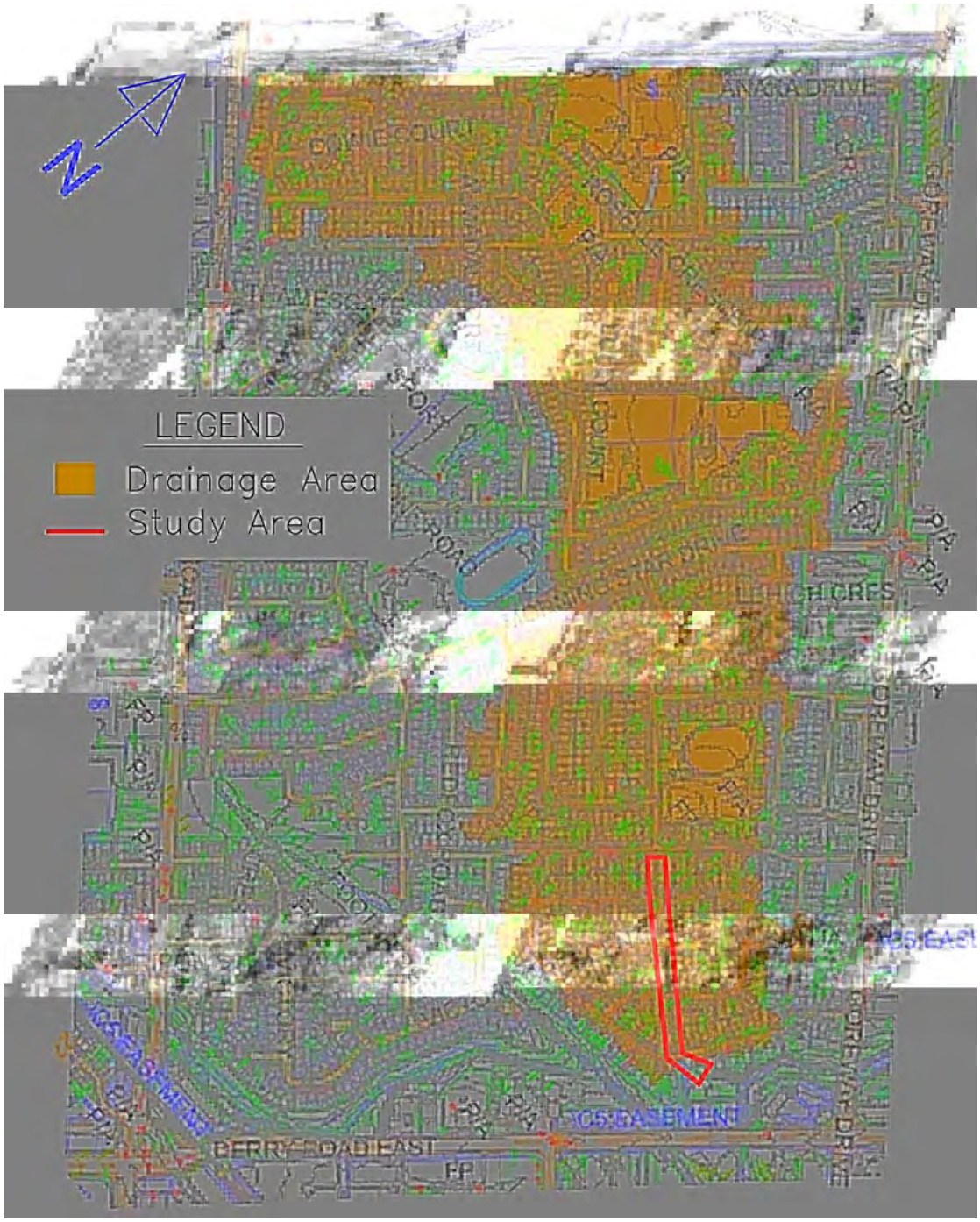
The topography of the study area has a low point down the centre, to which the east and west sides flow. Along this low centre is a pedestrian walkway from Etude Drive to the north end of Capricorn Crescent. where the walkway connects to Honeysuckle Avenue. Two more pathways follow from Michaud Avenue to the south end of Capricorn Crescent, and then to Justine Avenue. As the walkway is within City property, storm and sanitary sewers run beneath.

This pedestrian walkway doesn't appear to have been designed as an overland flow route, however, due to the topography of the neighbourhood it has been acting as one. The location of the walkway, including Honeysuckle Avenue is along the perfect alignment for an overland flow route, however the capacity of this walkway is minimal at best, and clearly was not designed to today's City standards, if any. Whether official or not, the low point has become an overland flow route, and is referred to as such throughout this report.

After the large storm event in 2013, the City retained Crozier & Associates (Crozier) to complete a draft conceptual design of the walkway. The draft design submitted by Crozier in 2014 shows a walkway cross-section with a 5.5 m wide and 0.6 m deep walkway / overland flow path, which would be able to contain more overland flow than the existing path. The Crozier design remains in draft form and was put on hold as planning was underway at the time for the TRCA Malton Flood Characterization Study, which investigated potential flood impacted areas throughout the entire community.

This study area is located downstream of a much larger major and minor system. There is a significant area north of Etude Drive that flows to this study area, as shown in **Figure 5.1**.

Figure 5.1: Upstream Drainage Area



5.1.2 Storm Sewers

Minor flows within the study area are conveyed by a storm sewer network that mirrors the major system, with a 1,650 mm diameter trunk storm sewer beneath the study area which outlets just south of Justine Drive. Engineering plan and profile drawings were obtained from the City to determine the details of the minor system. A plan of the storm sewers within the study area are shown below in **Figure 5.2**.

Figure 5.2: Existing Storm Sewers

Minor flows to the study area are significant, and existing modelling by Matrix shows that the 1,650 mm trunk sewer down the centre of the site only has capacity for a 2-year storm event. Any flow that is not captured or contained by the minor system would then add to the overland flow.

5.1.3 Overland Flow

Currently, major flow is conveyed south along Cambrett Drive to the upstream end of the pedestrian walkway at Etude Drive. Major flow from the east and west sides of Etude also contribute to overland flow along the central flow path. As major flow progresses south along the walkway, additional overland flow is added from the side streets until Justine Drive. From here overland flow is conveyed southeast along a channel to a tributary of Mimico Creek (see **Figure 5.3**).

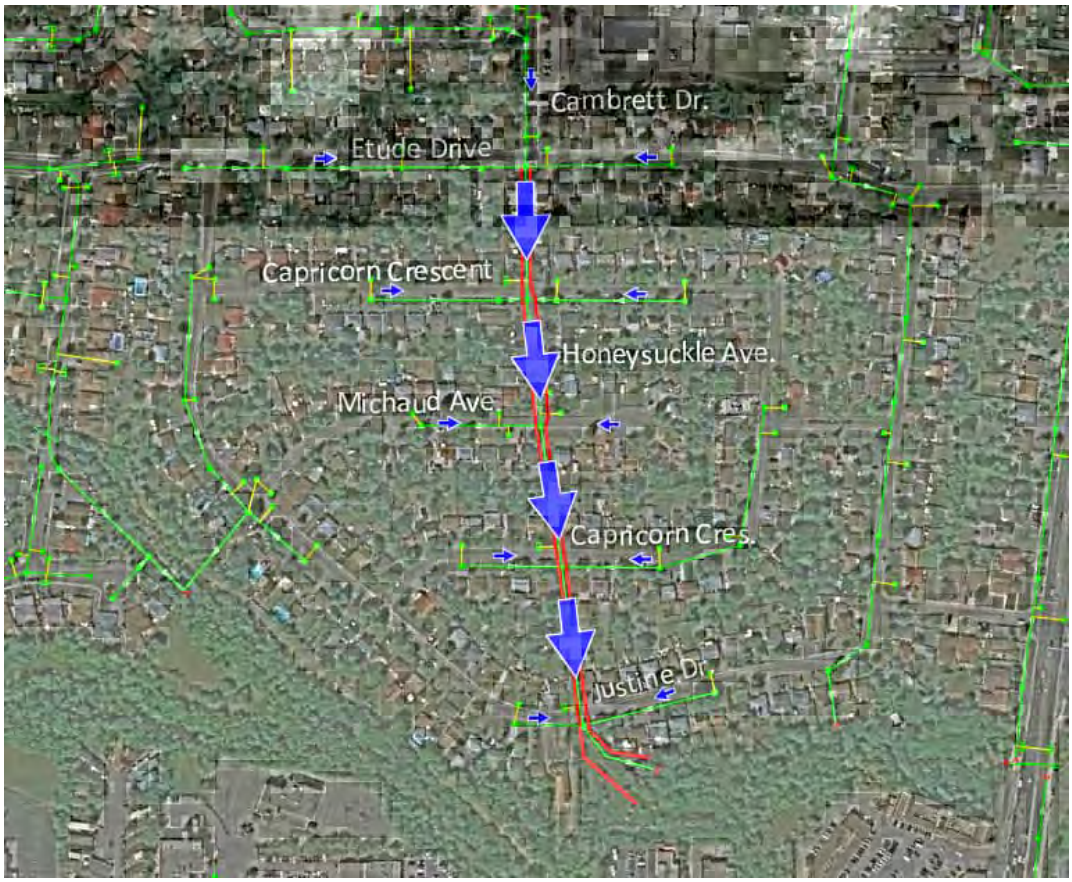
Previous modelling by Matrix shows that the overland flow path from Etude Drive to Justine Drive does not have a consistent slope, resulting in ponding at low points along the pathway, mainly at street crossings. During a large storm event these low points would fill up until they spill downstream, potentially flooding nearby properties.

The cross-section of the existing overland flow path is also a concern. In several locations the pathway is flush with adjacent properties with no defined channel, therefore unable to properly contain and convey flow. Instead, stormwater flows freely as sheet flow across the private properties adjacent to the pedestrian pathway, even with minimal rainfall. Honeysuckle Avenue, which is wider than the pathways and has a curb and gutter to contain flow, does not have the capacity to contain flow during large storm events. This is mainly due to the flat grading of properties of some of the adjacent residents, and the relatively large flowrates.

Based on the information examined for the site and previous modelling results, the volume of major flow during a large storm event compared to the low capacity of the existing major system highlights one of the main drainage problems of the area.

The main overland flow path through the study area is shown in **Figure 5.3** below.

Figure 5.3: Overland Flow Route



5.1.4 Site Visit

A site visit was completed on February 24, 2020 to investigate the overland flow route and determine if the information obtained from the engineering drawings and models is accurate. Google Earth Pro – Street View was also utilized to fully grasp the topography of the area.

Figure 5.4 below shows the upstream end of the pedestrian walkway at Etude Drive. The walkway is flush with the adjacent properties and unable to contain overland flow. The slope of the adjacent properties is almost flat.

Figure 5.5 shows the catchbasins at a crossing street at a depressed location, where the grade slopes up to continue downstream along the walkway. This is where runoff would pond before spilling downstream once deep enough. It makes sense to place catchbasins at a depression as it increases their capture capacity, however, major flow conveyance needs to be considered for large storm events to ensure flooding does not occur.

Figure 5.4: Pedestrian Path Grading

Figure 5.5: Overland Flow Path Depression

Figure 5.6: Path Cross-section

Figure 5.6 shows the fence-lined walkway, which is as narrow as 2.8 m, within the City's 7.5 m-wide property. The pathway seems to have a slight crown along the centre, with several cracks and local ponding locations.

5.1.5 History of Flooding

There was an intense storm on July 8, 2013, that caused flooding in the area. According to Amec's report for the TRCA, local storm intensities were found to be greater than the 100-year event (for a 6-hour duration), to which City drainage systems are to be designed. The storm damages accentuated the main drainage issues of the area, triggering the TRCA Malton Flood Characterization study. There has been no widespread flooding reported in the area since the July 8, 2013 storm event.

5.2 Previous Modelling

5.2.1 Visual OTTHYMO

A Visual OTTHYMO model was obtained from the TRCA for Mimico Creek. This model was referenced to determine hydrologic parameters for the subcatchments within Malton. The Matrix Report indicates that the original TRCA subcatchment boundaries were to be updated to reflect the latest LiDAR data for the site, however, the differences between the existing boundaries and the updated were too great to align with the scope of that project, and so the subcatchment boundaries were not updated. It should be noted that the modelling done for Flood Cluster 6 furthers the modelling completed for the entire subdivision, with previous assumptions maintained. And so, the subcatchments in the updated PCSWMM model reflect those in the Matrix Model and may not agree with the latest LiDAR data.

5.2.2 HEC-RAS

The HEC-RAS model of Mimico Creek was also obtained from the TRCA. Flows and water levels in the branches of the watercourse within or adjacent to Malton were referenced for all the storm events.

5.2.3 PCSWMM

A PCSWMM model was developed by Matrix Solutions for the entire Malton neighbourhood. The model only included a minor system for a small area of the site, not within our study area. The sections below describe the assumptions and methodologies of the original model, and the modifications that were made by AECOM to customize the model for Flood Cluster 6.

6. PCSWMM Modelling

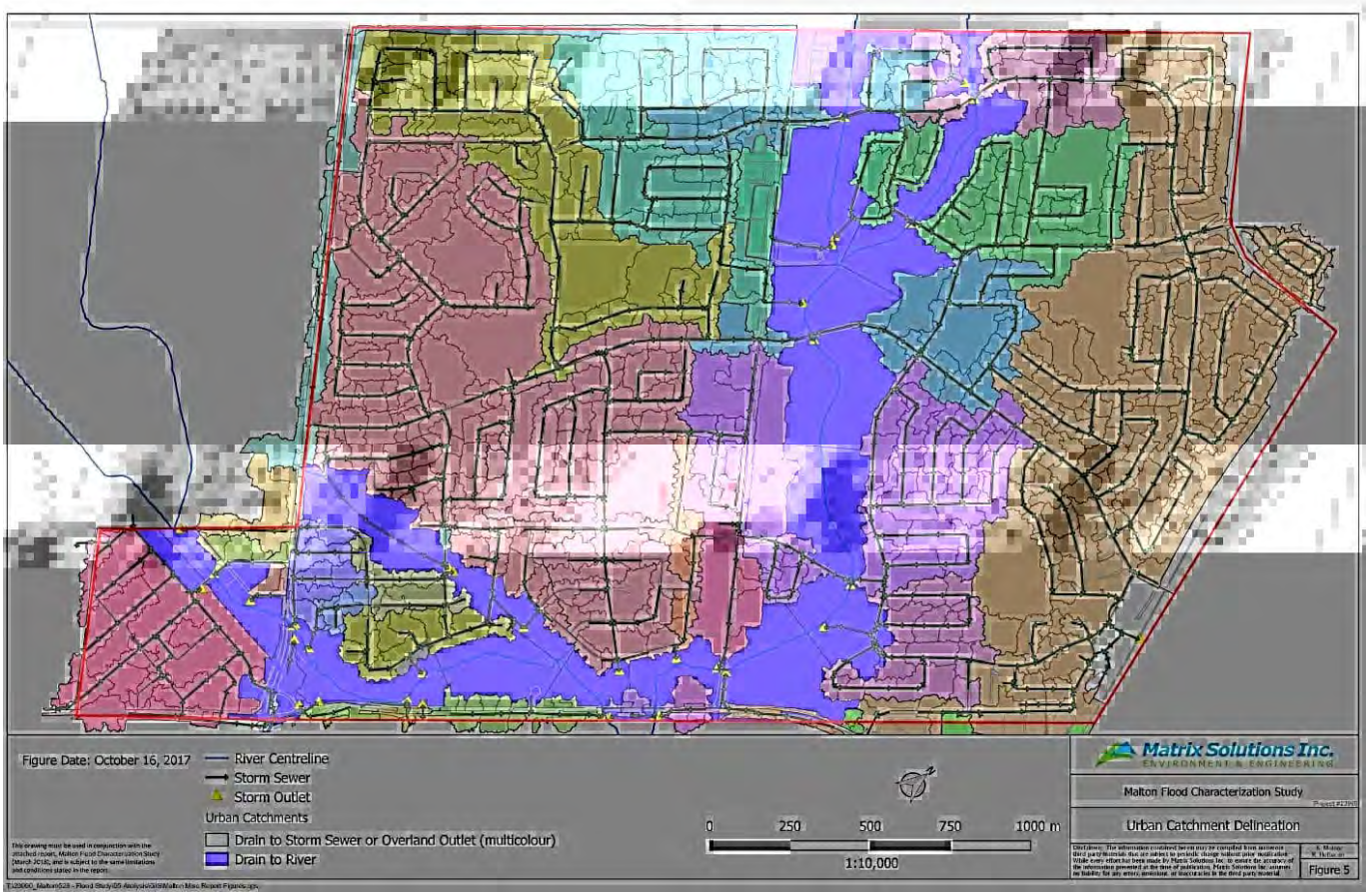
6.1 Matrix Set up and Assumptions

To properly model the overland flow throughout the Malton area for different storm events, the minor system had to be accounted for, even if it was not to be modelled. Through their calibration / validation process it was found that the general capacity of the minor system was equivalent to a 2-year event. The model was set up with three types of rain gauges for each storm:

- Storm hydrograph up to the 2-year event intensity;
- Storm hydrograph greater than the 2-year intensity; and
- Entire storm hydrograph.

Subcatchments were delineated to overland flow points across the study area. If the subcatchments contained a minor system then the rain gauge selected was the storm hydrograph greater than the 2-year event, assuming the 2-year event would be captured by the minor system and everything greater than that would be conveyed overland. Urban catchments generating runoff for storms greater than the 2-year event are shown in **Figure 6.1** in a variety of colours.

Figure 6.1: Matrix Subcatchments



Reference: Figure 6.1 from Matrix's Report

The 2-year event was not included in the major system hydrograph but couldn't be excluded completely, and so larger urban subcatchments (shown in **Figure 6.1** by colour) were delineated representing minor system networks with the outlets located at the storm sewer outlets to the watercourse downstream. These subcatchments (which overlap the previously mentioned ones) had rain gauges set up to the 2-year event and represent the minor system outfall flow. The two sets of urban subcatchments combine to represent the entire rainfall event.

For areas draining directly to a watercourse, riverine subcatchments were delineated and assigned the rain gauge representing the entire storm hydrograph, since there would be no major / minor split (shown below in purple). Subcatchments with these hydrographs don't overlap any other subcatchments.

Subcatchments representing overland flow across the study area were connected to 2D nodes representing ground surface elevations at local low points. Subcatchments representing the entire rainfall or up to the 2-year event were connected to an outfall point along the downstream watercourse.

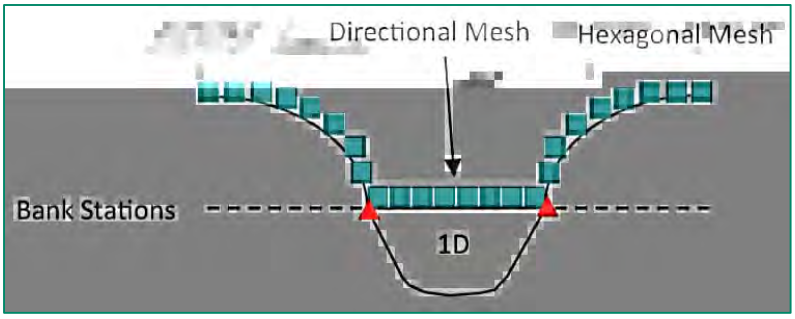
The watercourses in the model had inflow hydrographs at eleven locations for each storm event. These inflows were referenced from the HEC-RAS model to represent watercourse flows for each storm. There were two versions of the hydrographs, one represents the flow over time with an arced shape, whereas the other represents the peak flow and has a steep incline to the peak which is then maintained for the duration of the event. The peak flow version is conservative as it would add the peak flows in the watercourse for the storm event to the overland peak flows, not accounting for any attenuation.

Storm inflow and infiltration into the sanitary system was discussed in the Matrix Report, with peak inflows determined for each sanitary manhole for each storm event, however, this small amount of stormwater was not removed from the updated model for various reasons. Firstly, the relative peak flowrate of the sanitary inflow and infiltration is insignificant compared to the stormwater flow. For example, the 100-year inflow of the storm manhole located at the south branch of Capricorn Cres. along the overland flow path is 9.5 m^3/s. The peak inflow for the adjacent sanitary manhole is between 5.0 and 6.0 L/s., 0.06%. Secondly, to create a hydrograph for each sanitary manhole within the study area for each storm to model the inflow / infiltration in PCSWMM would be somewhat time consuming. And lastly, the proposed design should reduce the overland flow depths significantly, therefore reducing the sanitary inflow. And so, the proposed design results will not be impacted by the sanitary inflow.

The 2D mesh was generated across the entire subdivision to model overland flow. It considered existing structures and was set up around buildings, not within them. Hexagonal cells were used for overland flow in most locations, and tighter knit rectangular (directional) mesh was used for watercourses to properly model flow within defined channels.

The watercourses were set up as 1D, using PCSWMM channels to model flow, and then the 2D rectangular cells were set up on top to represent any flow that is not contained by, or spills from, the watercourse banks. **Figure 6.2** below shows a sketch of the 1D – 2D set up for the riverine system, referenced from the Matrix Report.

Figure 6.2: PCSWMM 1D-2D



6.2 Model Results

The Matrix Model was run for all storm events, from the 2-year to 100-year, as well as the Regional Storm and July 8th, 2013 event. The results show that there is some flooding during even small storm events, whereas the large storm events result in significant inundation of numerous homes. **Figures 6.3** and **6.4** below show the flooding impacts of a 10-year event and 100-year event for the study area, respectively, as per the Matrix Report.

Figure 6.3: Matrix Results: Flooding for 10-year event

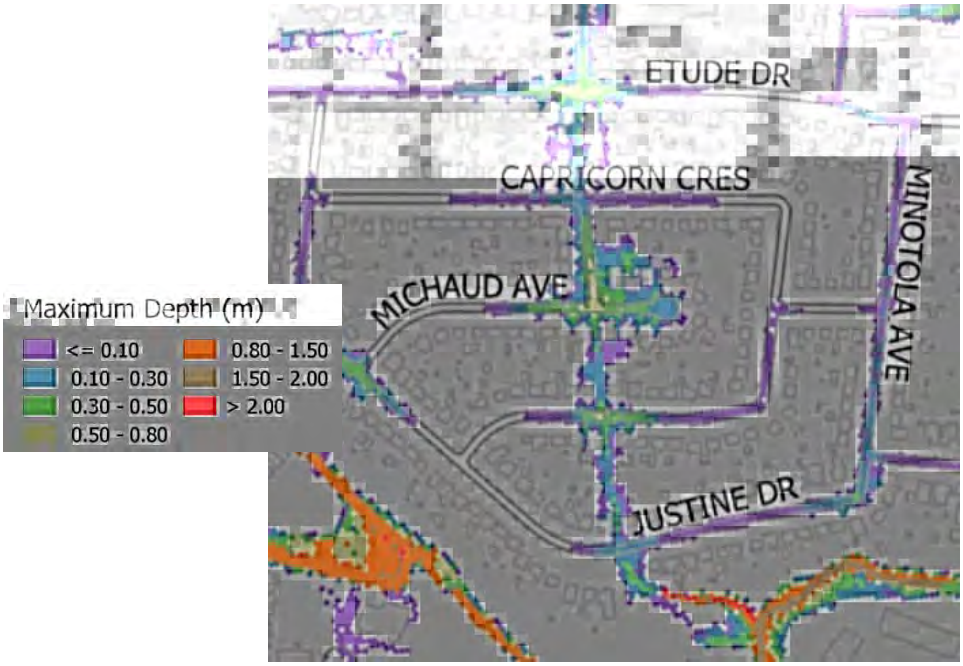
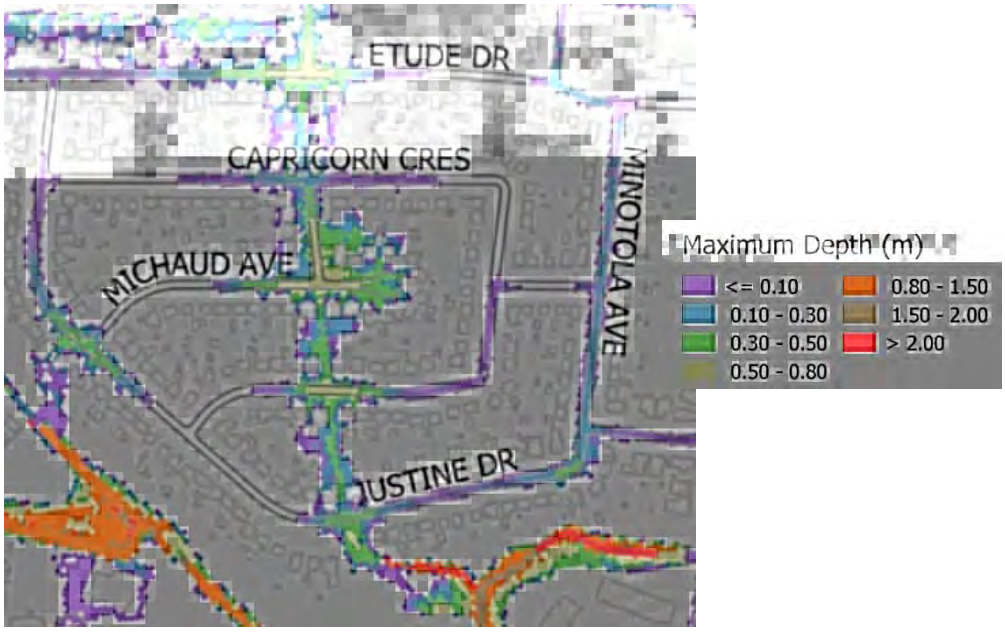


Figure 6.4: Matrix Results: Flooding for 100-year event



The Matrix Model output illustrates significant inundation for even a 10-year event. The stormwater footprints and depths do not meet the current City of Mississauga standards, and any significant storm event could put properties and safety of the residents at risk.

The flooding from the Regional and July 8th events are shown below in **Figures 6.5** and **6.6**. The modelling output for these events shows similar flooding footprints and depths to the 100-year storm.

Figure 6.5: Matrix Results: Flooding for Regional Event

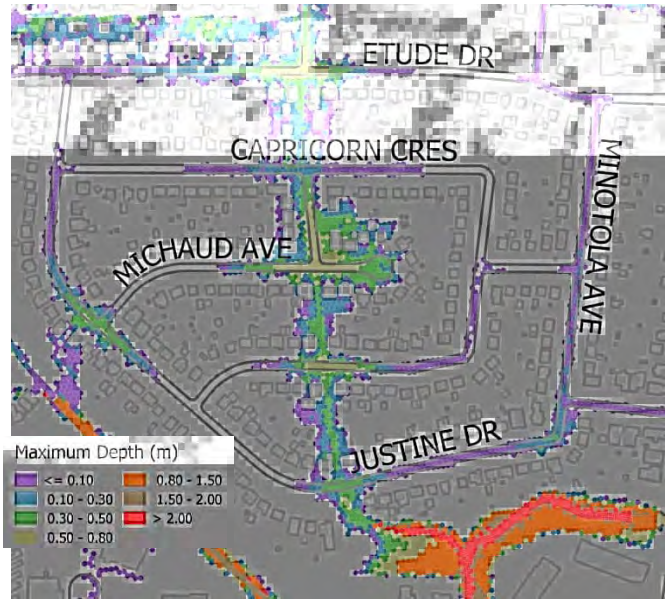
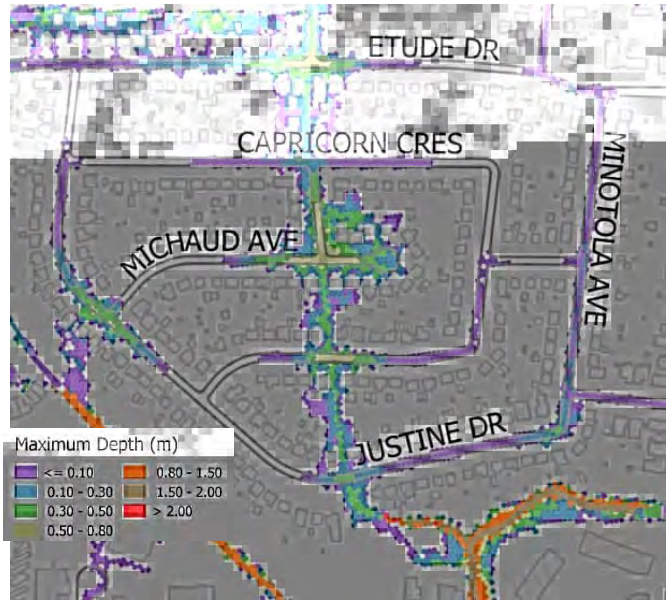


Figure 6.6: Matrix Results: Flooding for July 8th Event



6.3 Model Modifications

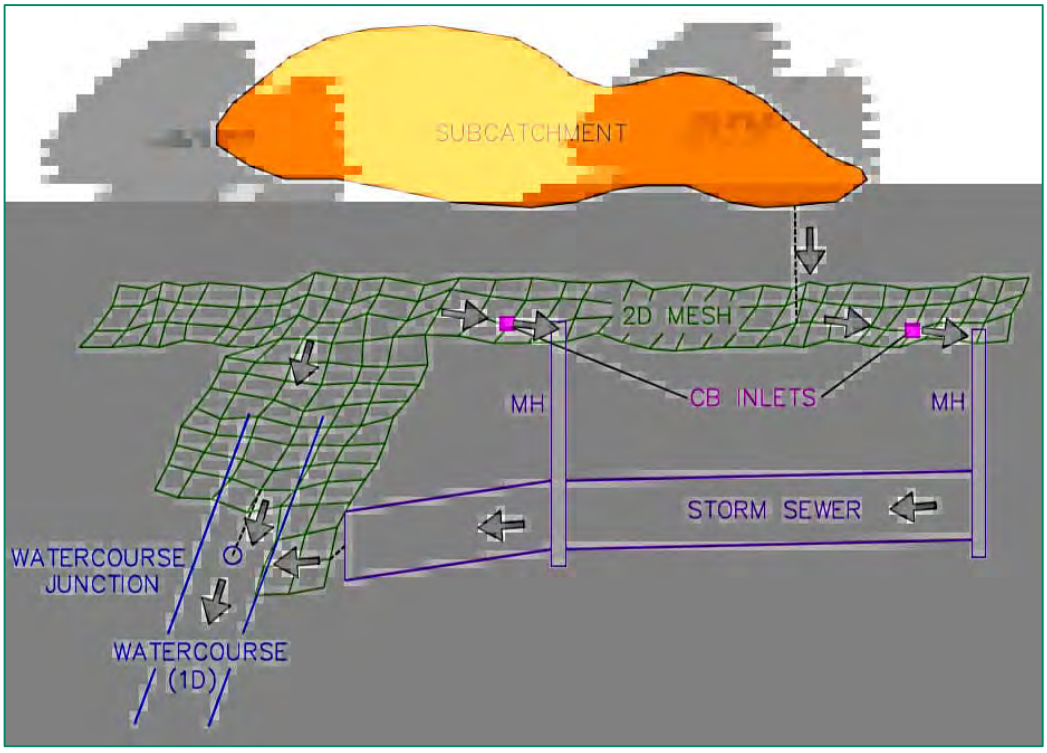
The PCSWMM Matrix Model was updated by AECOM to focus on Flood Cluster 6. As the run time of the Matrix Model was over fourteen hours, the model was truncated, eliminating sections that do not impact the study area to increase efficiency. The difficulty is that with both an urban and riverine system, it's challenging to separate one section from another. It may not be apparent if one section has an impact on another. As such, only areas that were certain to not impact the study area were removed from the model. The entire riverine system connected to the downstream tributary remained, as did everything that drained to it. Downstream creek levels could impact conveyance of major and minor systems in our study area.

The timestep of the model was also increased from 0.25 seconds to 0.5 seconds. This may still seem quite low but with a model this complex it's important to maintain accuracy. It was also important not to deviate too far from the Matrix Model, as its results had been calibrated and validated.

The major change to the updated model is the addition of the minor system throughout the study area as well as upstream. Engineering drawings from the City of Mississauga were referenced to construct storm sewers, manholes and inlets into the model. Google Earth was also consulted for the location of catch basins, as the CAD drawings from the City were not always accurate. Storm sewers upstream of the study area were also input into the model, but not necessarily the entirety of every branch. The proper number of inlets were included to ensure flow capture accuracy, but in longer upstream storm sewer branches the very upstream end may have been omitted, as including it would have an insignificant impact on downstream results.

The minor system was connected to the 2D mesh by means of the catch basin inlets throughout the urban system. The inlet characteristics were input as they were in the Matrix Model. The only difference was that the inlet offset was set to zero to better model the relation from the inlet grate to the ground surface. Along the riverine system, the 2D mesh is connected directly to the junctions along the watercourse to allow inflow and spilling. **Figure 6.7** illustrates the connectivity of the model.

Figure 6.7: Model Schematic



Other features from the original model, such as riverine inflow hydrographs, were maintained.

AECOM's conceptual modelling and report were reviewed by Matrix and here are their main comments:

- AECOM to provide Matrix with 2D Cells shapefile for review
- The previous subcatchment CN value of 100 should be updated now that the minor system has been included in the model
- Subcatchments should be re-examined along the study area and refined to be smaller and more accurate in relation to the catchbasins
- The connection of the storm outfall to the downstream channel should be reviewed
- Update tags so different items are easily searched and selected
- Turn auto-length feature off

Further to the conceptual modifications mentioned above, the subcatchments were refined to reflect the detailed design stage. Subcatchments within the study area were delineated into smaller areas with catchment characteristics such as flow length, width, impervious area and slope recalculated. Instead of having an overly conservative CN value of 100 for the area, it was updated to 91, referenced from TRCA's Visual OTTHYMO hydrology model. The outflow channel at the downstream end of the storm trunk was updated from 4 m wide to 3.5 m. Existing condition models were re-run for the 2-year, 10-year and 100-year storm events to serve as a baseline for detailed design.

6.4 Results / Comparison to Matrix

AECOM's latest model results were compared to the Matrix results to ensure they are generally the same. The updated model results were quite similar to the Matrix results, which was to be expected. Flooding occurred at the same locations within the study area as the Matrix Model and mostly to the same extent. **Figures 6.8** and **6.9** below compare inundation results for the two model versions for the 10-year and 100-year events. The results indicate that in a 100-year storm 35 houses would be impacted.

Figure 6.8: Comparison – Model Results: 10-year Event

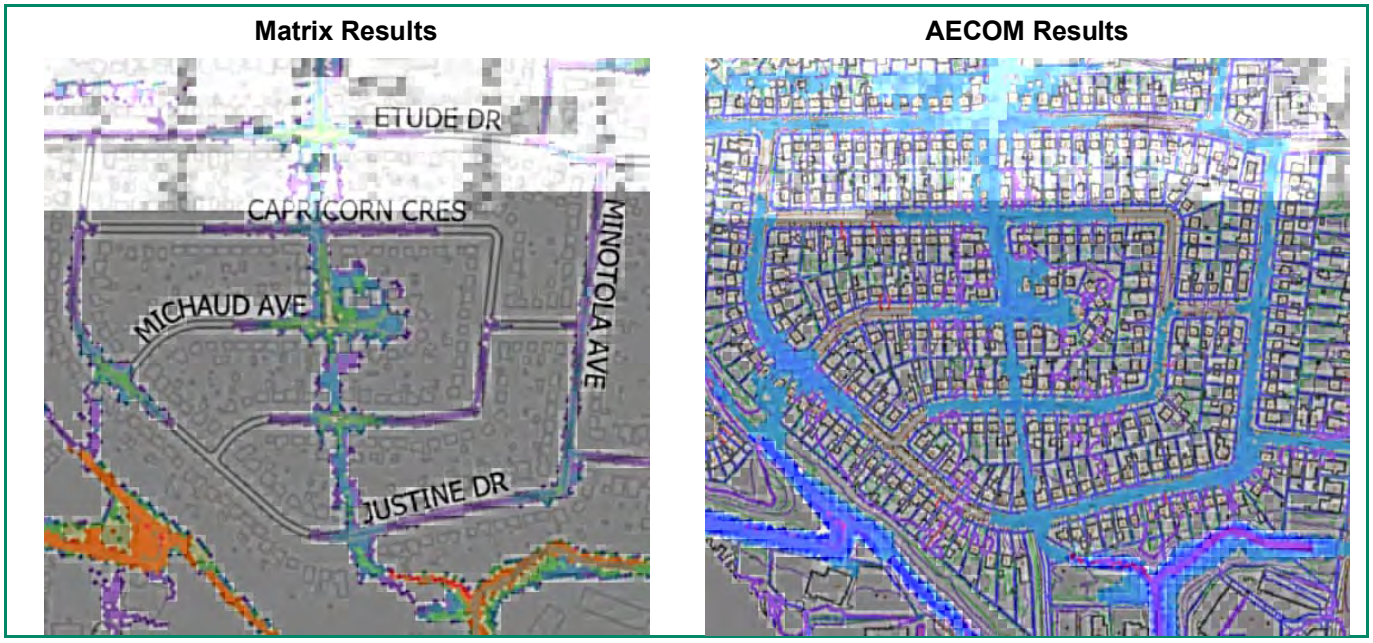
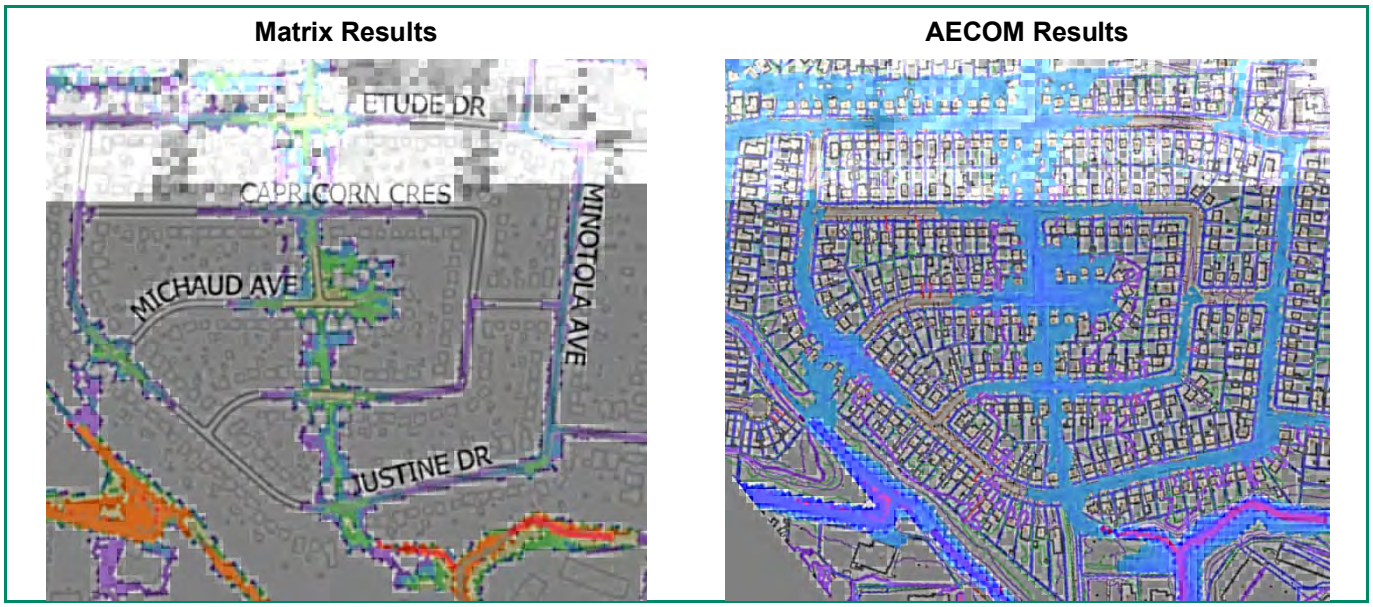


Figure 6.9: Comparison – Model Results: 100-year Event

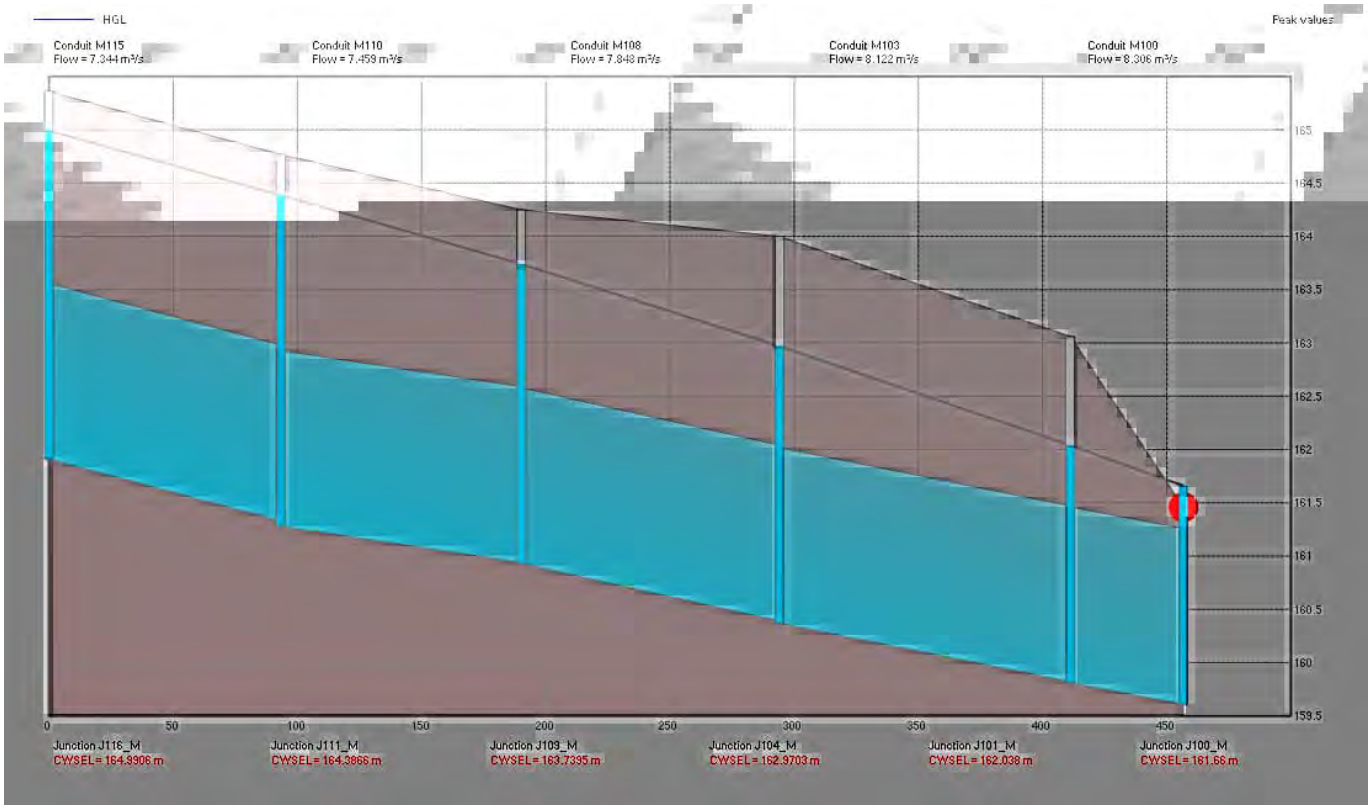


The 2-year event was modelled by AECOM to determine if the existing major / minor systems could contain the flow. The overland flow impacts of a 2-year event seem to be contained by the current overland flow infrastructure for the majority of the study area, shown in **Figure 6.10** below, although some houses would still be impacted.

Figure 6.10: Existing Major Flow during 2-year Event

The minor system was able to be analyzed in the updated AECOM model, allowing a closer look at inflows, duration of surcharge and volume of spill for different sections of sewer. The Matrix Model had assumed that the minor system of the entire neighbourhood could only capture and convey up to the 2-year event. The profile of the 1,650 mm storm trunk was examined during a 2-year event with the results shown in **Figure 6.11** below.

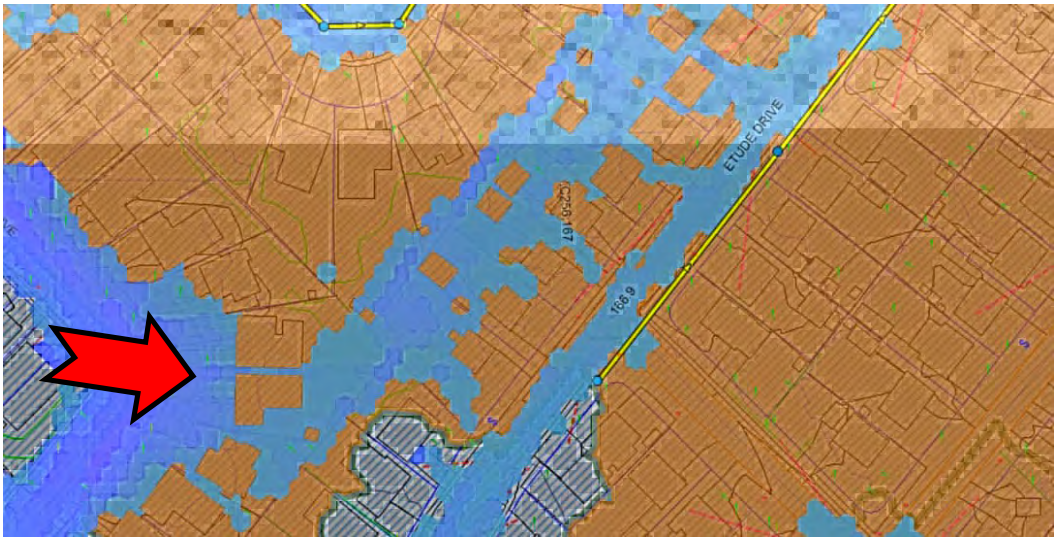
Figure 6.11: Existing Storm Trunk during 2-year Event



As shown above, the minor system is not simply at capacity, but completely surcharged during a 2-year event. Any event larger than a 2-year will result in all additional runoff flowing overland to the outfall. This confirms the minor system capacity assumptions made in the Matrix report.

The houses on the north side of Etude Drive, west of Cambrett Drive are shown as impacted in the existing models. The models show the source of this flooding coming from Reindeer Drive to the west. Reindeer Drive has a low point with no overland flow path downstream, and so in large storm events that low point spills across private property on the southeast corner of the street and floods the backyards along Etude Drive, as shown in **Figure 6.12**. The lower backyards allow stormwater to pond and then spill towards Etude Drive, impacting houses. These houses were not included in the tally for impacted houses in the study area as the source of the flooding stems from Reindeer Drive which is in Flood Cluster 7. It is recommended that this flooding be resolved as part of that future study.

Figure 6.12: Flooding from Reindeer Drive



6.5 Flow and Capacity Requirements

The existing model results show that the existing infrastructure is only able to contain a 2-year event. According to the City's design criteria, both the major and minor systems should capture and convey runoff generated from a 100-year storm. It is understood that the existing drainage system is undersized, and so the next step was to determine what the total 100-year flowrate is.

A simplified version of the AECOM model was set up to capture all the runoff generated from a 100-year event along the study area. An oversized pipe and additional inlets placed in the model were used to simulate the maximum conveyance to the outfall. The peak flow along that pipe represents the total existing flow that the major and minor systems should be sized for.

The simplified model results show that the total peak flowrate is 20.9 m^3/s at the downstream end of the study area. The existing minor system can convey 12.0 m^3/s when completely surcharged, and the major system (before spilling to adjacent properties) can convey 0.0 – 0.5 m^3/s. It was conservatively assumed that the existing infrastructure can convey 12.0 m^3/s, which is only just over half of the 100-year peak flow.

Below is a table summarizing the existing condition flows discharging from the storm trunk.

Table 6.1: Existing Conditions Flows

Storm Frequency	Distribution Modelled	Peak Flow (m^3/s)
2-year	4 hr Chicago	8.3
10-year	4 hr Chicago	10.1
100-year	4 hr Chicago	12.0
100-year Required	4 hr Chicago	20.5 (approx.)

6.6 July 8th, 2013 Storm

The July 8th storm was modelled for existing conditions as part of the November 2022 SWM preliminary design brief. Watercourse flows and rainfall gauges were input for the July 8th peak. The main difference in this storm is that it encompasses two rainfall events back-to-back with a short dry spell between. The entire event is over 31 hours long, whereas the 2-year to 100-year events have a 4-hour duration, and the Regional event has a 12-hour duration. The timestep was increased to 1 second for this event, only to minimize run time.

Similar to the Matrix model results, inundation was extensive and similar to the Regional storm impacts. The latest iteration of existing conditions was run for the July 8th storm but errors occurred, possibly due to the size of the model. PCSWMM has changed the model input set up since the earlier iteration was run, and so that may also contribute to the errors. These modelling issues will be resolved by the next submission to better establish existing impacts from the July 8th storm.

6.7 Summary of Existing Conditions

Study area drainage includes a minor system, which conveys flow along a 1650 mm diameter trunk storm sewer that runs along City property from Etude Drive to Justine Drive and then outlets south of Justine to a tributary of Mimico Creek.

It doesn't appear that an overland flow path was designed for this study area, however, the City's pedestrian pathway is acting as an overland flow route as it runs along the topographical low point. The fact that it was not designed as such means that the inconsistent slope and almost flat cross-section are not able to contain the required flows.

The Matrix Model estimated that the minor system was able to capture and convey up to a 2-year storm. This was confirmed with AECOM's updated model which added the minor system for the study area and upstream to the model. For larger storm events the model shows the minor system surcharging and then spilling to the overland flow system, as expected.

In all storm events the water elevations in Mimico Creek have some backwater effects on the storm sewer system.

The model output shows that during a 100-year event 38 houses within the study area would be impacted (meaning that flood waters appear to have contact with the residential structures), and during a 2-year event 2 houses would be impacted.

Key Findings

- The combined capacity of the existing major and minor systems is approximately 12.0 m^3/s; and
- The peak flowrate of a 100-year event is 20.9 m^3/s.

Constraints

- Along the walkway portion of the City's property, the width of the property is 7.5 m; and
- A sanitary sewer runs beneath the City property adjacent to the storm sewer, only slightly deeper.

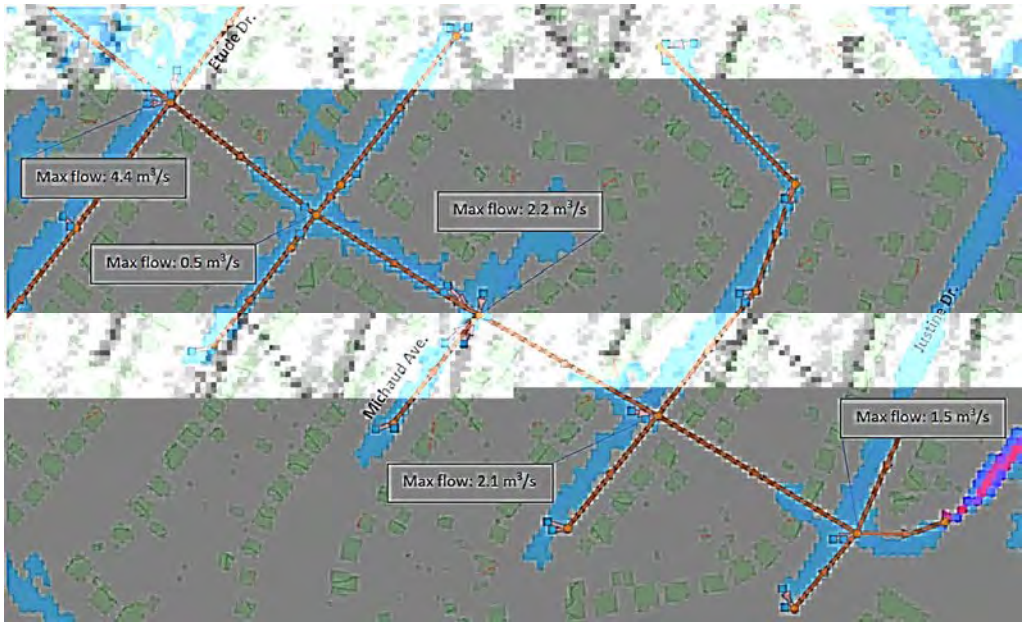
7. Preferred Solution

The previous report detailed the evaluation of alternatives process and how the 11 alternatives on the long list were reduced to the five alternatives on the short list, with an eventual preferred solution chosen. The preferred solution involves upsizing the 1650 mm trunk sewer from Etude Drive to the outfall, replacing it with a 3.0 m x 1.8 m box trunk. This will provide a much higher capacity for the minor system to convey flow. In order to capture incoming overland flow to the site, custom inlets will be required at Etude Drive and along the study area to force as much runoff to the minor system as possible. Even with these improvements some overland flow is still expected, and so the overland flow path will be redesigned to contain low flows by widening the path itself and adding curbs alongside.

7.1 Proposed Inlets & Overland Flow Path

The simplified AECOM model described in **Section 6.5** was referenced to determine the maximum flow inlets would be required to capture at each intersection along the study area. Each oversized inlet at an intersection was checked to see the maximum flow inlet during a 100-year storm, with the total inflow as the sum of all inlets. **Figure 7.1** shows the total inlet flow at each intersection for the proposed design.

Figure 7.1: Required Inlet Capacity



A peak flow of 4.4 m^3/s is required to be captured at the intersection of Cambrett Street and Etude Drive. Considering the large drainage area upstream and the limited capacity of the existing minor system, this high overland flow is expected yet beyond the capture capacity of typical residential catchbasin inlets (but not beyond the capacity of the proposed storm trunk – it was sized to convey all flows). The proposed overland flow path downstream of the Etude intersection is estimated to have a capacity of 0.6 m^3/s, and so it would be feasible to capture 3.8 m^3/s at the intersection and allow 0.6 m^3/s to be conveyed downstream overland. There will be low points at each intersection to maximize inlet capture and so any overland flow from upstream would pond at the low point and potentially be captured by the storm system. Depending on the storm and maximum ponding depth, flow could also continue to flow overland downstream.

Multiple manufacturers were contacted to find high-capacity inlets that would be suitable for this application. Different companies and types of inlets were investigated to determine that these large inlet flows are possible. A specific type will be determined during detailed design. Some preliminary calculations were done to estimate the size and configuration of the inlets required. These calculations will be refined as the proposed intersection grading is refined at each design stage, and so inlet flows and grate sizes may be change slightly in the future.

Inlets at a sag location will be able to capture more flow than on a slope, and so the proposed grading along the overland flow path will have sag points at each intersection to maximize inlet capacity. Some ponding will be expected at these locations to store runoff until captured by the minor system, to maximize capture capacity and to prevent excessive overland flows from being conveyed downstream. These sag points will be designed so that during large storm events, runoff would spill downstream before ponding extends to private property.

A preliminary concept for the inlet configuration and grading of the overland flow path is shown in **Figure 7.2** below. Inlets are shown as red rectangles and proposed local high points (HP) and low points (LP) are shown to maximize inlet capacity.

Figure 7.2: Proposed Inlet & Grading Configuration

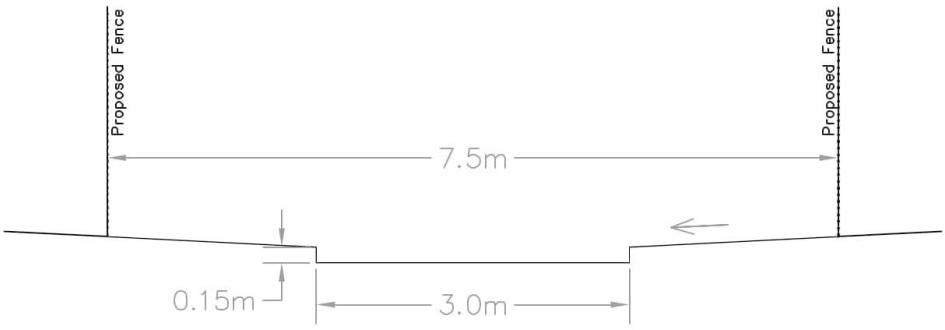
For all of the proposed inlets it was assumed that they would be located at a local low point to maximize capture capacity. Calculations for inlet capture, referencing ponding depth and surface area, were completed in Excel. The MTO Design Chart 4.19: Inlet Capacity at Road Sag was referenced, however, the inlets proposed are much larger than a standard DCB. For preliminary calculation purposes it was assumed that the inlet flows and surface area from the table have a linear correlation (So if the area of the inlet is doubled, the flow is also doubled). The sizing of the proposed grates assumes a 50% blockage of leaves or debris as a worst-case scenario, and so the dimensions listed in the table equate to double the listed area. The width of the inlet is based on a standard inlet size, and the length is calculated as the minimum length. Adequate standard sized inlets can be confirmed at detailed design. Calculations for inlet capture can be found in **Appendix A**.

Table 7.1: Inlet Assumptions

Location:	@ Etude	@Capricorn N	@Michaud	@Capricorn S	@Justine
Flow to Capture (m^3/s)	3.8	0.5	2.2	2.1	1.5
Number of inlets	3	2	3	2	2
Flow to inlet 1 (m^3/s)	1.1	0.25	0.73	1.05	0.75
Max Depth (m)	0.15	0.15	0.15	0.20	0.20
Area of inlet (m^2)	4.66	1.89	3.11	3.15	2.25
Dimensions (50% blocked)	0.91m x 10.2m	0.61m x 6.2m	0.91m x 6.8m	0.91m x 6.9m	0.91m x 4.9m
Flow to inlet 2 (m^3/s)	1.1	0.25	0.73	1.05	0.75
Max Depth (m)	0.15	0.15	0.15	0.20	0.20
Area of inlet (m^2)	4.66	1.89	3.11	3.15	2.25
Dimensions (50% blocked)	0.91m x 10.2m	0.61m x 6.2m	0.91m x 6.8m	0.91m x 6.9m	0.91m x 4.9m
Flow to inlet 3 (m^3/s)	1.6		0.73		
Max Depth (m)	0.20		0.20		
Area of inlet (m^2)	4.80		2.20		
Dimensions (50% blocked)	0.91m x 10.5m		0.91m x 4.8m		

The proposed overland flow path will be 3 m wide with 0.15 m high curbs on either side. With an average slope around 0.5%, the conveyance capacity will be approximately 0.6 m^3/s. The cross-section shown below will be applied from Etude Dr to Capricorn Cres. (N), and then from Michaud Ave. to Capricorn Cres. (S) to Justine Dr. South of Justine Dr. an overland flow path needs to be extended to the outfall channel, possibly a trapezoidal shaped ditch with the same capacity.

Figure 7.3: Proposed Overland Flow Cross-section



7.2 Proposed Outfall

A new outfall structure will be constructed adjacent to the existing one. The alignment of the proposed trunk sewer will skew from existing downstream of Justine Drive. This design configuration will allow the existing outfall structure to convey flow as the proposed one is being built. The channel will be widened at the outfall to facilitate the new structure and will taper in to match the existing cross-section approximately 40m downstream.

The proposed cross-section will include the north wall of the channel moved in approximately 1m to allow for some structural improvements, whereas the south channel will be moved south several meters to allow for the new structure and will taper up to the existing ground surface.

The junctions at the outfall were updated in the proposed PCSWMM model to reflect the proposed grading.

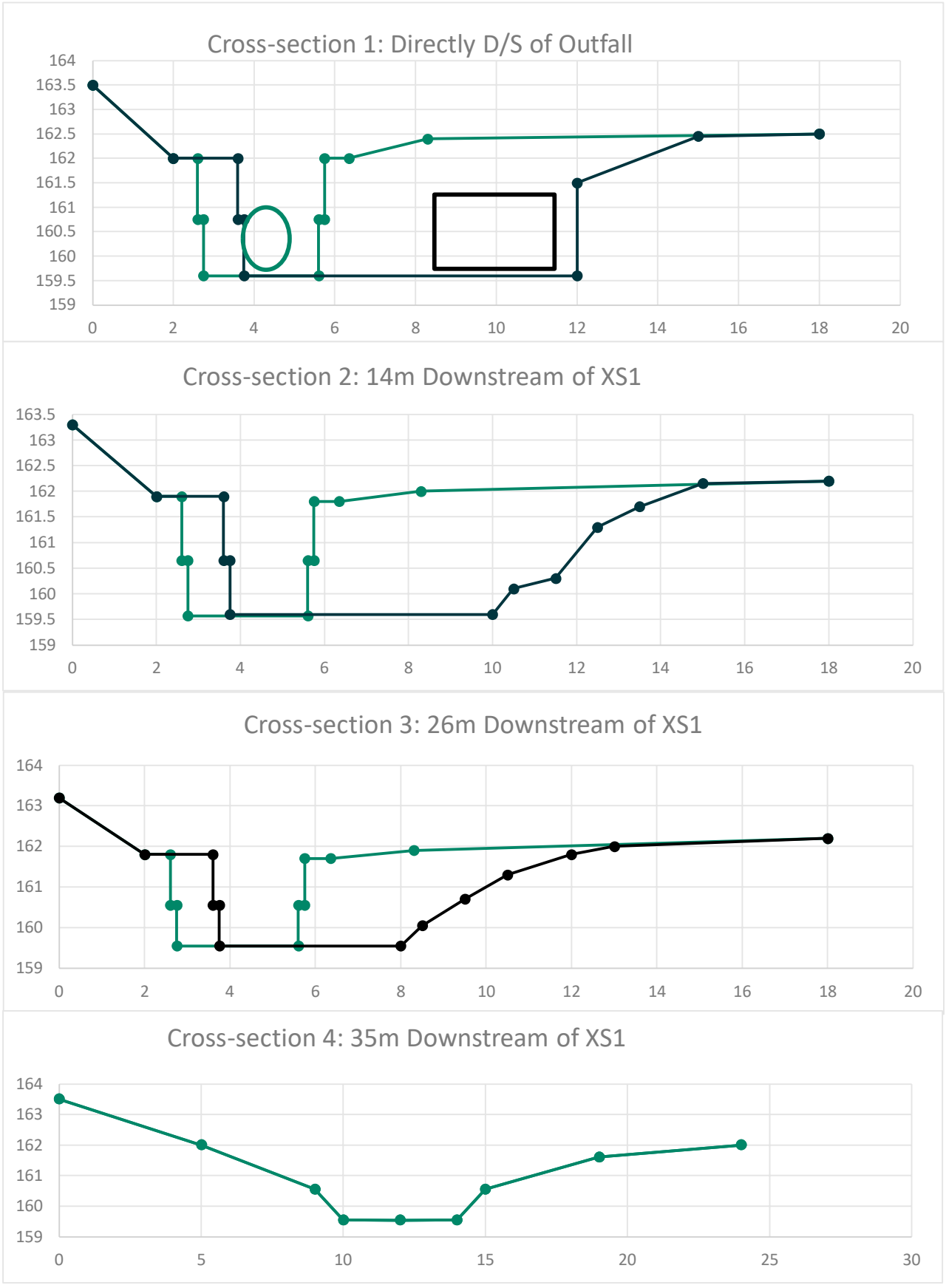
Existing and proposed cross-sections are show in the figures below, facing downstream. Existing features are in teal and proposed are in black.

7.2.1 Hydraulic Mitigation Measures

Storage solutions at the downstream end of the storm trunk were investigated, however, due to the excessive volumes required to reduce flows and the proximity to the floodplain these solutions were not carried forward.

Some improvements are proposed for the outfall, such as some baffles to dissipate increased energy and a new headwall and wider channel to accommodate the box storm trunk. The gabion baskets on the north side of the channel will be reinforced, bringing the wall in towards the channel. The south side of the channel will be reconstructed downstream of the outfall to increase the width and add more flow area.

Figure 7.4: Existing and Proposed Channel Cross-sections



7.3 Proposed Modelling

The proposed upgrades were added to the proposed conditions model by upsizing the 1650 mm trunk storm sewer from Etude Drive to the outfall to a 3.0 m by 1.8 m box trunk and adjusting orifice sizes and inlet inverts at the intersections to better simulate proposed minor system capture. Further analyses will be done at each intersection during detailed design to refine the best inlet sizes, types and configurations as well as local regrading required to capture flow.

7.4 Proposed Modelling Results

The proposed model was run for a 100-year storm event and results show that flooding is significantly reduced along the study area. Proposed inundation mapping was compared to existing, as shown below in **Figure 7.5**.

Figure 7.5: 100-year Storm Comparison – Existing vs. Proposed

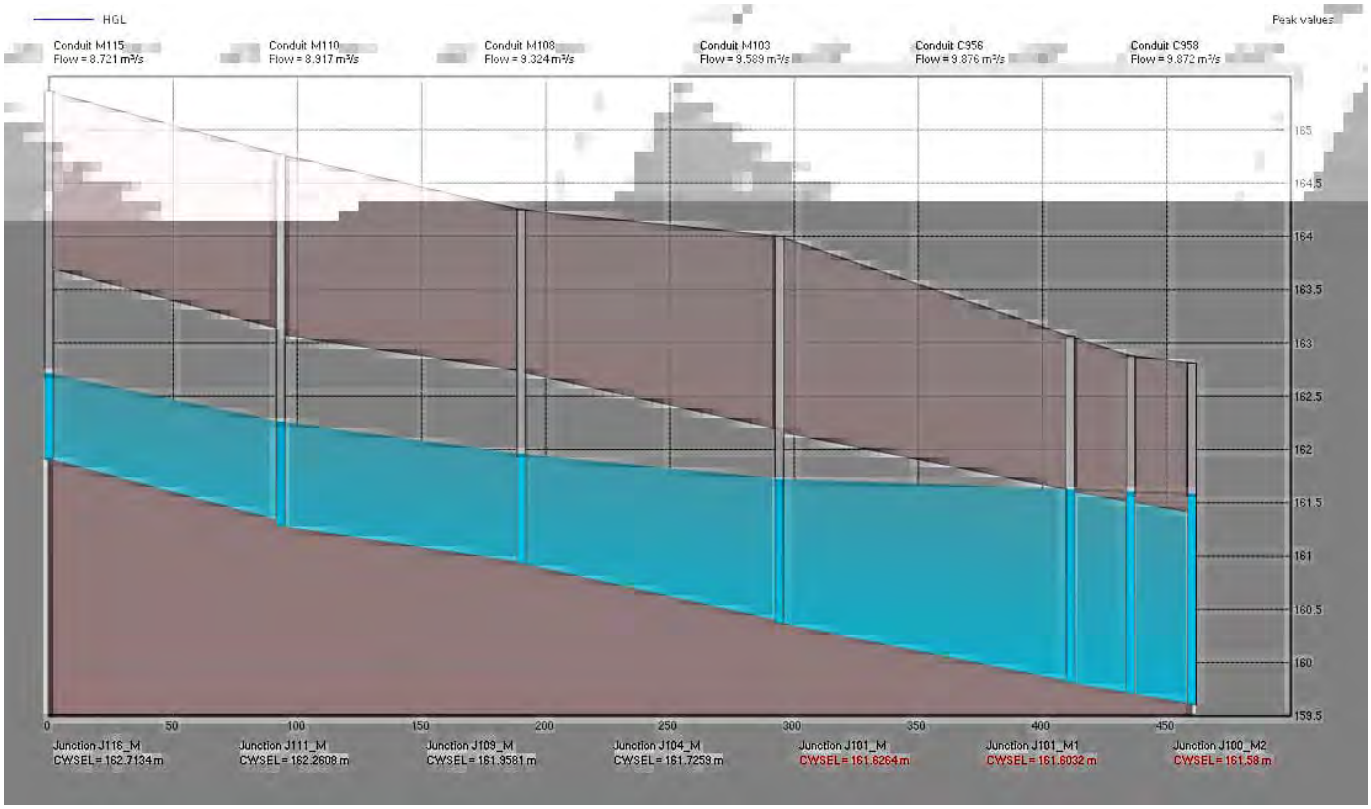
The same was done for the 10-year and 2-year storms, as shown in **Figures 7.6** and **7.7** below.

Figure 7.6: 10-year Storm Comparison – Existing vs. Proposed

Figure 7.7: 2-year Storm Comparison – Existing vs. Proposed

The trunk capacity of the 2-year event was checked in profile and compared to existing, as shown below in **Figure 7.8.**

Figure 7.8: Proposed Storm Trunk during 2-year event



The proposed modelling shows that no houses would be impacted in a 100-year storm. There may be some spill to private properties, but significantly less than existing and no buildings would be impacted.

The reduction in flooding results in an increase in flow to the storm system and outfall. The table below compares the existing and proposed flows at the storm trunk outfall for the different storm events.

Table 7.2: Proposed Conditions Flows

Storm Frequency	Distribution Modelled	Ex. Peak Flow (m^3/s)	Prop. Peak Flow (m^3/s)
2-year	4 hr Chicago	8.3	9.9
10-year	4 hr Chicago	10.1	14.8
100-year	4 hr Chicago	12.0	19.2
100-year TOTAL	4 hr Chicago	20.5 (approx.)	

The velocity-depth product of the overland flow was also compared for existing and proposed conditions. The flow-depth product was divided into three categories: meeting all criteria, meeting City's criterion but exceeding MNR, and exceeding all criteria. The latest model results show that the velocity-depth product for the proposed overland flow along the study area meets all criteria, which is an improvement over existing conditions, which does not. See **Figures 7.9** and **7.10** for the existing and proposed velocity-depth products.

Figure 7.9: Existing Velocity-Depth Product of Overland Flow

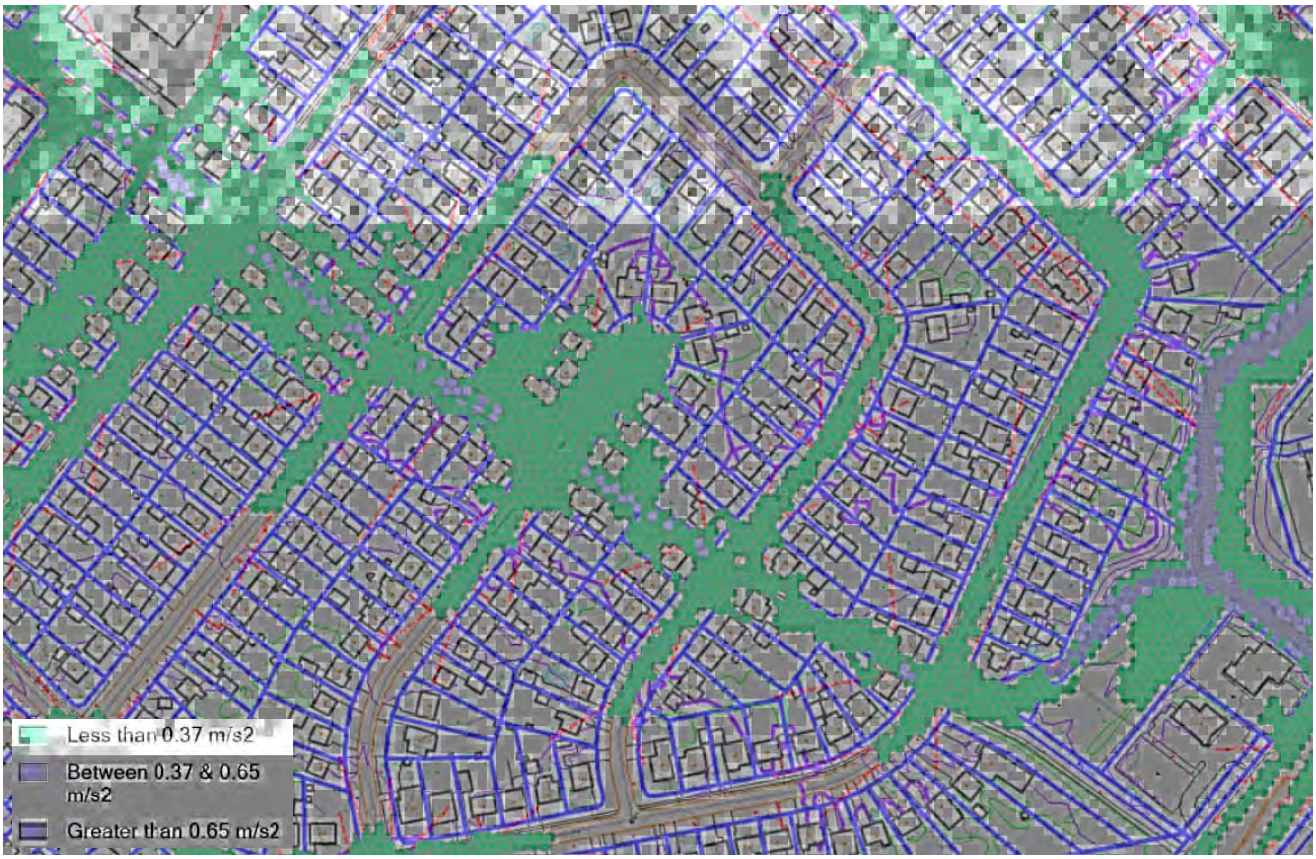


Figure 7.10: Proposed Velocity-Depth Product of Overland Flow

7.5 Downstream Impacts of Preliminary Preferred Alternative

The outfall channel was added to TRCA's HEC-RAS model to better simulate the existing and proposed channel hydraulics. Since proposed flows are higher, velocities and water levels were checked to ensure any flooding and erosion risks are mitigated. The existing and proposed flows were referenced from the PCSWMM model and added as a constant flowrate for the channel. It should be noted that the 2-year and 10-year flows from PCSWMM are based on the 4-hour Chicago distribution, but the 100-year was run through PCSWMM with both the 4-hour Chicago and the 12-hour AES distributions. The TRCA uses the AES distribution for the Mimico Creek hydrology, on which the HEC-RAS flows are based.

In all storm events Mimico Creek backs up into the channel creating a pool at the outfall. Therefore, fast flowing water from the trunk sewer will be dissipated when it reaches the slower moving water at the outfall. This results in relatively low erosion potential along the channel during large storms. Also, the peak flow from the trunk storm sewer will happen before the peak of the creek flow, as it has a smaller, urbanized area.

The table below provides information for the different scenarios.

Table 7.3: Channel Hydraulics

Storm	Distribution Modelled	XS Distance from Outfall (m)	Ex. Peak Flow (m^3/s)	Ex. WSE (m)	Ex. Velocity (m/s)	Ex. Shear Stress (N/m^2)	Prop. Peak Flow (m^3/s)	Prop. WSE (m)	Prop. Velocity (m/s)	Prop. Shear Stress (N/m^2)
2-year	4 hr Chicago	0	8.3	161.32	0.58	2.61	9.9	161.34	0.69	3.66
		14		161.32	0.63	3.31		161.33	0.75	4.65
		35		161.30	0.73	4.82		161.29	0.88	6.89
10-year	4 hr Chicago	0	10.1	161.98	0.51	1.55	14.8	161.99	0.75	3.33
		14		161.98	0.51	1.82		161.99	0.75	3.92
		35		161.98	0.49	0.79		161.97	0.72	1.73

Storm	Distribution Modelled	XS Distance from Outfall (m)	Ex. Peak Flow (m^3/s)	Ex. WSE (m)	Ex. Velocity (m/s)	Ex. Shear Stress (N/m^2)	Prop. Peak Flow (m^3/s)	Prop. WSE (m)	Prop. Velocity (m/s)	Prop. Shear Stress (N/m^2)
100-year	4 hr Chicago	0	12.0	162.67	0.46	0.89	19.2	162.71	0.73	2.22
		14		162.68	0.39	0.48		162.71	0.61	1.20
		35		162.68	0.33	0.43		162.71	0.51	1.06
100-year	12 hr AES	0	9.7	162.68	0.37	0.58	11.6	162.71	0.44	0.81
		14		162.68	0.32	0.32		162.71	0.37	0.44
		35		162.68	0.27	0.28		162.71	0.31	0.38

The water levels in the channel are mainly impacted by the backwater effects of Mimico Creek, and less so by the storm trunk outflow. The higher flows under proposed conditions do have a slight impact on water levels and velocities.

As part of the overall assessment for the outlet channel, a review of the hydraulic model outputs was completed to evaluate the implications for sediment entrainment and transport downstream of the outlet into Mimico Creek. The watercourses form and function are influenced by channel flow and the sediment regime. Changes to the amount of flow and/or frequency of flow have the potential to impact entrainment and transport of sediment.

As part of this assessment of the proposed flows, a geomorphological analysis was completed to compare the proposed flow velocities and shear stresses with the existing velocities and shear stresses. The hydraulic model outputs have been analysed to compare changes in sediment entrainment and transport potential between the proposed and existing conditions. Using modeled flow velocities and shear stresses, sediment entrainment was determined using a modified Shield's equation (Knighton, 1998) and sediment transport was predicted using empirical equations presented by Komar (1998). Comparison between these two scenarios is contained in the tables below (Error! Reference source not found., Error! Reference source not found., Error! Reference source not found.). The table shows that only slight increases in velocity and shear stress will occur, therefore there is essentially no change in sediment size class for entrainment or transport of sediment for the stations within Mimico Creek for these flow events based on these calculations.

As stated in the AECOM (2020) Fluvial Geomorphological Assessment, the dominant processes occurring within reach EMC-2, located downstream of the outlet channel, are aggradation and widening, and the system is identified as moderately stressed. This could indicate that the existing flows are not sufficient to support sediment entrainment and transport within the existing system. Widening results in lowering of water depth due to the increase in the cross-sectional area, lowering the channel velocities and shear stresses. The proposed increased discharge appears to have no discernable impact, neither an increase or decrease, on sediment entrainment and transport based on the calculations within the study area for the 2, 10 and 100-year flow event.

Table 7.4: Comparison of Existing and Proposed 2-year Flow Velocities in terms of Sediment Entrainment and Transport

Reach	XS	Flow m^3/s	Channel Velocity m/s	Channel Shear N/m^2	Total Shear N/m^2	Grain Size Transported (mm)	Size	Grain Size Entrained (mm)	Size
Existing Conditions									
Channel	90	8.3	0.58	2.76	2.61	10.39	Medium Gravel	3.79	Very Coarse Sand
Channel	76.25	8.3	0.63	3.31	3.31	12.43	Medium Gravel	4.55	Very Coarse Sand
Channel	64.15	8.3	0.88	6.71	6.71	25.70	Coarse Gravel	9.22	Medium Gravel
Channel	57.9	8.3	0.73	4.82	4.82	17.12	Coarse Gravel	6.62	Fine Gravel
Channel	41.8	8.3	0.69	4.06	4.06	15.15	Medium Gravel	5.58	Pebble
Channel	20	8.3	0.62	5.95	3.76	12.01	Medium Gravel	8.17	Medium Gravel
East 1B	233.17	17.72	1.14	13.33	6.21	45.12	Very Coarse Gravel	18.31	Coarse Gravel
East 1B	183.95	17.72	1.54	24.65	12.32	86.77	Small Cobble	33.86	Very Coarse Gravel

Reach	XS	Flow m^3/s	Channel Velocity m/s	Channel Shear N/m^2	Total Shear N/m^2	Grain Size Transported (mm)	Size	Grain Size Entrained (mm)	Size
Proposed Conditions									
Channel	90	9.9	0.67	3.65	3.43	14.21	Medium Gravel	5.01	Coarse Sand
Channel	76.25	9.9	0.72	4.34	4.34	16.62	Coarse Gravel	5.96	Coarse Sand
Channel	64.15	9.9	1.01	8.88	8.88	34.68	Very Coarse Gravel	12.20	Medium Gravel
Channel	57.9	9.9	0.83	6.2	6.2	22.64	Coarse Gravel	8.52	Medium Gravel
Channel	41.8	9.9	0.79	5.31	5.31	20.33	Coarse Gravel	7.29	Fine Gravel
Channel	20	9.9	0.7	7.63	4.69	15.63	Medium Gravel	10.48	Medium Gravel
East 1B	233.17	19.32	1.19	14.39	6.55	49.54	Very Coarse Gravel	19.77	Coarse Gravel
East 1B	183.95	19.32	1.63	27.27	13.78	98.17	Small Cobble	37.46	Very Coarse Gravel

Table 7.5: Comparison of Existing and Proposed 10-year Flow Velocities in terms of Sediment Entrainment and Transport

Reach	XS	Flow m^3/s	Channel Velocity m/s	Channel Shear N/m^2	Total Shear N/m^2	Grain Size Transported (mm)	Size	Grain Size Entrained (mm)	Size
Existing Conditions									
Channel	90	10.05	0.51	1.9	1.55	7.85	Fine Gravel	2.61	Very Coarse Sand
Channel	76.25	10.05	0.51	2.03	1.82	7.85	Fine Gravel	2.79	Very Coarse Sand
Channel	64.15	10.05	0.67	3.73	1.71	14.21	Medium Gravel	5.12	Pebble
Channel	57.9	10.05	0.49	1.91	0.79	7.20	Fine Gravel	2.62	Very Coarse Sand
Channel	41.8	10.05	0.49	1.89	0.87	7.20	Fine Gravel	2.60	Very Coarse Sand
Channel	20	10.05	0.36	1.75	0.92	3.68	Very Coarse Sand	2.40	Very Coarse Sand
East 1B	233.17	32.32	1.09	10.83	3.45	40.93	Very Coarse Gravel	14.88	Medium Gravel
East 1B	183.95	32.32	1.67	25.4	13.88	103.48	Small Cobble	34.89	Very Coarse Gravel
Proposed Conditions									
Channel	90	14.85	0.72	3.73	2.68	16.62	Coarse Gravel	5.12	Pebbles
Channel	76.25	14.85	0.71	3.88	2.26	16.12	Coarse Gravel	5.33	Pebbles
Channel	64.15	14.85	0.92	6.87	2.57	28.31	Coarse Gravel	9.44	Medium Gravel
Channel	57.9	14.85	0.65	3.34	1.46	13.30	Medium Gravel	4.59	Very Coarse Sand
Channel	41.8	14.85	0.67	3.44	1.39	14.21	Medium Gravel	4.73	Very Coarse Sand
Channel	20	14.85	0.48	3.06	1.68	6.88	Fine Gravel	4.20	Very Coarse Sand
East 1B	233.17	37.12	1.13	11.33	3.66	44.27	Very Coarse Gravel	15.56	Medium Gravel
East 1B	183.95	37.12	1.8	29.2	16.12	121.80	Small Cobble	40.11	Very Coarse Gravel

Table 7.6: Comparison of Existing and Proposed 100-year Flow Velocities in terms of Sediment Entrainment and Transport

Reach	XS	Flow m^3/s	Channel Velocity m/s	Channel Shear N/m^2	Total Shear N/m^2	Grain Size Transported (mm)	Size	Grain Size Entrained (mm)	Size
Existing Conditions									
Channel	90	9.7	0.37	0.95	0.58	3.91	Very Coarse Sand	1.30	Coarse Sand
Channel	76.25	9.7	0.32	0.71	0.32	2.85	Very Coarse Sand	0.98	Coarse Sand
Channel	64.15	9.7	0.36	0.94	0.47	3.68	Very Coarse Sand	1.29	Coarse Sand
Channel	57.9	9.7	0.27	0.5	0.28	1.97	Very Coarse Sand	0.69	Coarse Sand
Channel	41.8	9.7	0.27	0.52	0.28	1.97	Very Coarse Sand	0.71	Coarse Sand
Channel	20	9.7	0.2	0.48	0.3	1.03	Coarse Sand	0.66	Coarse Sand
East 1B	233.17	51.2	0.93	7.24	2.68	28.99	Coarse Gravel	9.95	Medium Gravel
East 1B	183.95	51.2	1.77	26.1	15.27	117.43	Small Cobble	35.85	Very Coarse Gravel
Proposed Conditions									
Channel	90	11.6	0.44	1.31	0.81	5.70	Pebbles	1.80	Coarse Sand
Channel	76.25	11.6	0.37	0.96	0.44	3.91	Very Coarse Sand	1.32	Coarse Sand

Reach	XS	Flow m^3/s	Channel Velocity m/s	Channel Shear N/m^2	Total Shear N/m^2	Grain Size Transported (mm)	Size	Grain Size Entrained (mm)	Size
Channel	64.15	11.6	0.42	1.27	0.64	5.15	Pebbles	1.74	Coarse Sand
Channel	57.9	11.6	0.31	0.67	0.38	2.66	Very Coarse Sand	0.92	Coarse Sand
Channel	41.8	11.6	0.32	0.71	0.39	2.85	Very Coarse Sand	0.98	Coarse Sand
Channel	20	11.6	0.23	0.65	0.41	1.39	Coarse Sand	0.89	Coarse Sand
East 1B	233.17	53.1	0.94	7.31	2.74	29.67	Coarse Gravel	10.04	Medium Gravel
East 1B	183.95	53.1	1.8	27.08	15.88	121.80	Small Cobble	37.20	Very Coarse Gravel

The increase in velocity and shear stress will be mitigated by adding baffles at the outfall, which will dissipate flows from the storm trunk, especially in cases where the water level in the channel may be low. The channel will also be widened to make room for the new outfall structure, and the north gabion wall will be rebuilt.

Figures 7.11 below shows photos of the existing channel cross-section.

Figure 7.11: Existing Outfall Channel

Refinement of proposed cross-sections and outfall configuration will be required at detailed design.

7.5.1 Feedback on Preliminary Preferred Alternative

7.5.1.1 TRCA

A presentation was created to inform the TRCA about the work completed thus far for Malton Flood Cluster 6, and to obtain their feedback on the City's preferred alternative. A virtual meeting was held on September 9, 2020 with representatives from AECOM, TRCA and the City. The presentation gave some background information on the flooding history of the study area, explained the previous work completed by Matrix Solutions and the development stages up to the selection short list of alternatives, with a focus on Conceptual Alternative 1. The minutes and presentation can be found in the Conceptual Design Report – **Appendix B**. The TRCA did not object to Alternative 1 and were supportive of the proposed design and the improvements to the outfall channel. The TRCA did request that Low Impact Development measures be considered as the detailed design moves forward.

The opportunity to implement LID measures was explored, however, due to the narrow right-of-way and developed surroundings, there is no space to add LID measures between the existing utilities and the proposed trunk sewer.

The TRCA will be kept informed as the design progresses, and any questions or concerns will be addressed in the short term to maintain project efficiency.

8. Conclusion and Recommendations

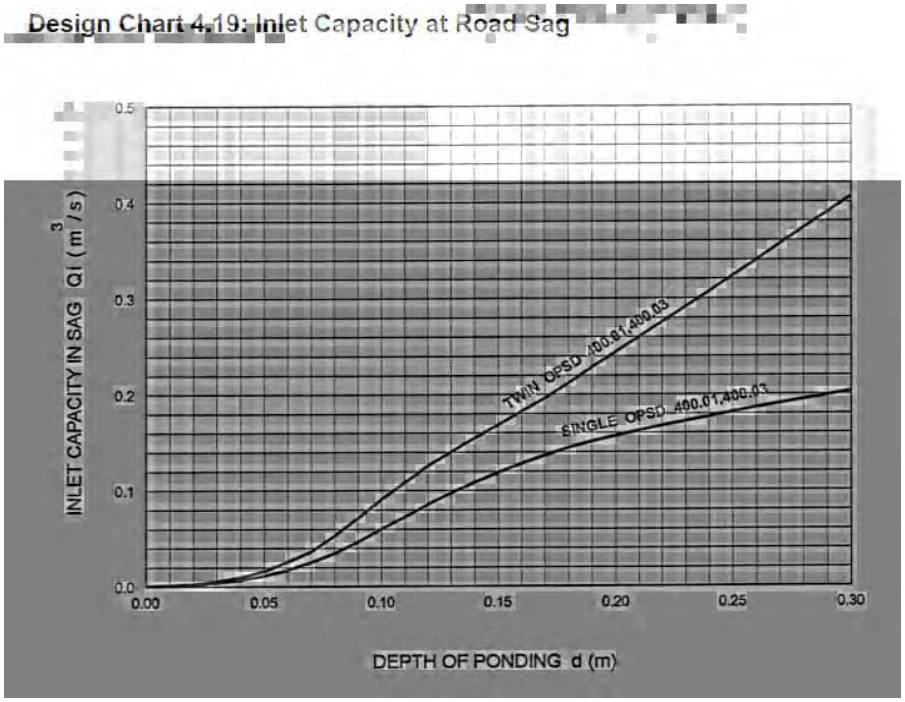
The proposed design was modelled in PCSWMM with the larger box trunk and additional inlets. The model results show a significant improvement in flooding along the study area. The PCSWMM modelling shows that zero houses would be impacted under proposed conditions.

The overland flow path, custom inlets and outfall design were modelled in PCSWMM as well as in Excel. Further refinement will be required for grading of the flow path, specific inlets at each intersection and the preferred cross-section of the channel downstream of the outfall. These will be completed during detailed design.

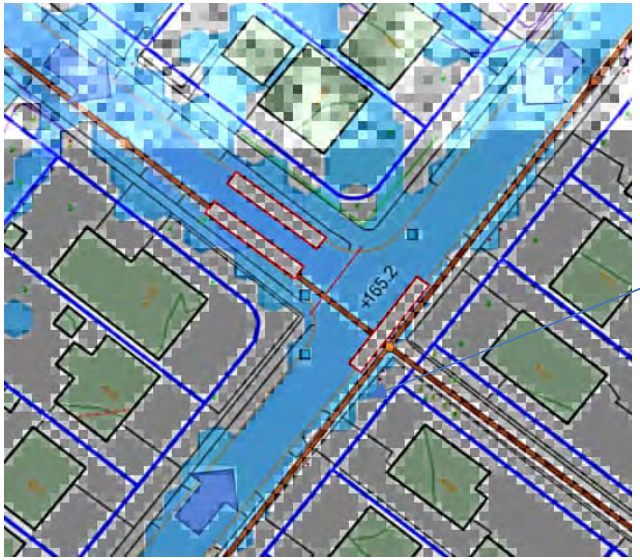
Appendix A

Inlet Calculations

Malton Inlets - MTO Design Charts



Assume proposed inlet configuration:



Reference twin inlet @ sag

Depth	Flow	Area
m	m^3/s	m^2
0.00	0.00	0.72
0.05	0.02	0.72
0.10	0.10	0.72
0.15	0.17	0.72
0.20	0.24	0.72
0.25	0.32	0.72
0.30	0.40	0.72

Inlet Sizing based on Flow Inlet Calculator
@Etude

Total flow = 4.4 m^3/s

Overland flow path = 0.6 m^3/s assumed
Remaining flow to be captured = 3.8 m^3/s

*Create a high point to result in 2 sag locations to maximize flow

Assume max depth of two adjacent inlets = 0.15 m =
Assume max depth of south inlet = 0.20 m =

Assume desired flow into two adjacent inlets = 1.1 m^3/s each =
Assume desired flow into south inlet = 1.6 m^3/s each =

Area of adjacent inlets = 4.66 m^2
Area of south inlets = 4.80 m^2

Assume grate width of 0.91 m = 36 inches (V7332)

Adjacent inlets required length =	5.10 m	assume 50% blocked, so Length =	10.2	m
South inlet required length =	5.25 m	assume 50% blocked, so Length =	10.5	m

@Capricorn N

Total flow = 0.5 m^3/s

Assume CBs on E & W sides

Assume max depth of two adjacent inlets = 0.15 m =

Max flow / inlet = 0.25 m^3/s each =

Area of inlets = 1.89 m^2

Assume grate width of 0.61 m =

Required Length = 3.11 m assume 50% blocked, so Length = 6.2 m

@Honeysuckle & Michaud

Total flow = 2.2 m^3/s

Assume CBs on E & W sides, and N of path

Assume max depth of two adjacent inlets = 0.15 m =
Assume max depth of south adjacent inlets = 0.20 m =

Max flow / side inlets = 0.73 m^3/s each
Max flow / south inlet = 0.73 m^3/s

Area of adjacent inlets = 3.11 m^2
Area of adjacent inlets = 2.20 m^2

Assume grate width of 0.91 m
Assume grate width of 0.91 m

Required Length (2 adj inlets) =	3.41	m	assume 50% blocked, so Length =	6.8	m
Required Length (S inlet) =	2.42	m	assume 50% blocked, so Length =	4.8	m

@Capricorn S

Total flow = 2.1 m^3/s

Assume CBs on N & S sides

Assume max depth of two inlets = 0.2 m =

Max flow / side inlets = 1.05 m^3/s each

Area of adjacent inlets = 3.15 m^2

Assume grate width of 0.91 m

Required Length (2 adj inlets) = 3.46 m assume 50% blocked, so Length = 6.9 m

@Justine

Total flow = 1.5 m^3/s

Assume CBs on N & S sides

Assume max depth of two inlets = 0.2 m

Max flow / inlet = 0.75 m^3/s each

Area of adjacent inlets = 2.25 m^2

Assume grate width of 0.91 m

Required Length (2 adj inlets) = 2.47 m assume 50% blocked, so Length = 4.9 m

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Appendix C

Natural Environment Report

AECOM Imagine it. Delivered.

City of Mississauga

Malton Flood Mitigation Study – Etude Drive to Justine Drive

Natural Environment Assessment

Prepared by:

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Project #: 60620028

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Revision History

Rev #	Date	Revised By:	Revision Description
1	September 21, 2023	Olga Hropach, Zach Wells, Samantha Zandvliet	To complete an assessment of alternative solutions.

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1. Introduction

On July 8, 2013, a severe precipitation event inundated the City of Mississauga's (the City) Malton neighbourhood. In response to this flooding, the Toronto and Region Conservation Authority (TRCA) retained Matrix Solutions Inc. to undertake the Malton Flood Characterization Study (2018). The study modeled the July 8, 2013 event and the 2-year Regional event for Malton and identified nine clusters in the neighbourhood with flooding concerns for further analysis. AECOM was retained by the City to complete the Municipal Class Environmental Assessment (MCEA), preliminary and detailed designs to address the flooding within Malton Flood Cluster 6. The proposed limits of work for this Malton Flood Mitigation Study extends from Etude Drive at the top of the easement to the storm drain outlet south of Justine Drive, as seen on **Figure 1**.

In support of the proposed undertaking, AECOM Ecologists completed a natural environment assessment to document existing natural environment conditions within the proposed limits of work associated with the MCEA alternative solutions, as well as identify environmental constraints and anticipated permits and approvals. A short list of five alternatives have been identified from a total of 11 possible alternatives to reduce or eliminate the flooding during storm events in the general area between Etude Drive and Justine Drive in Malton. A description of the five short-listed alternatives is provided as follows:

- **Alternative 1**: involves replacing the existing 1650 mm storm sewer beneath the pedestrian walkway and within existing City property with a new box storm sewer from Etude Drive to the Mimico Creek outfall channel in Derry Greenway Park, regrading the walkway to a proper overland flow path and completing a new outlet upgrade at the outlet channel south of Justine Drive. Additional inlets would also be required.
- **Alternative 2:** involves constructing 12,000 m^3 of underground storage in Ridgewood Park open space area, installation of a new 1050 mm relief sewer beneath the pedestrian walkway and within existing City property from Etude Drive to the Mimico Creek outfall channel in Derry Greenway Park, regrading of the pedestrian walkway to a proper overland flow path, and completing a new outlet upgrade upstream of the outlet channel south of Justine Drive. Additional inlets would be required.
- **Alternative 3:** involves constructing 12,000 m^3 of underground storage in the Ridgewood Park open space area, installation of a new 1050 mm diameter relief sewer beneath the pedestrian walkway and within existing City property from Etude Drive to the Mimico Creek outfall channel in Derry Greenway Park, and completing a new outlet upgrade upstream of the outlet channel south of Justine Drive. Additional inlets would also be required as well as a 0.15 m deep bioswale providing 115 m^3 of storage beneath Honeysuckle Avenue and Michaud Avenue.
- **Alternative 4:** involves constructing 12,000 m^3 underground storage in the Ridgewood Park open space area and a 0.15 m deep bioswale with 180 m^3 storage beneath at Honeysuckle Avenue and Michaud Avenue.
- **Alternative 5:** involves constructing 12,000 m^3 underground storage in the Ridgewood Park open space area along with additional inlets and storage in the right-of-way along Etude, Honeysuckle Avenue and Michaud Avenue, and regrading of the pedestrian walkway to a proper overland flow path, within the existing City property from Etude Drive to Mimico Creek.

The results of the existing natural environment conditions data will also inform and identify measures to mitigate negative impacts on the natural environment. The natural environment assessment was completed on October 28, 2020. The Study Area for the natural environment assessment consisted of 120 m from the alternative solutions (**Figure 1**). Natural environment features within the Study Area are limited to near the existing outlet and associated channel to Mimico Creek and its surrounding natural area, with the rest of the Study Area generally lacking natural areas and generally limited to only street trees and public parks.

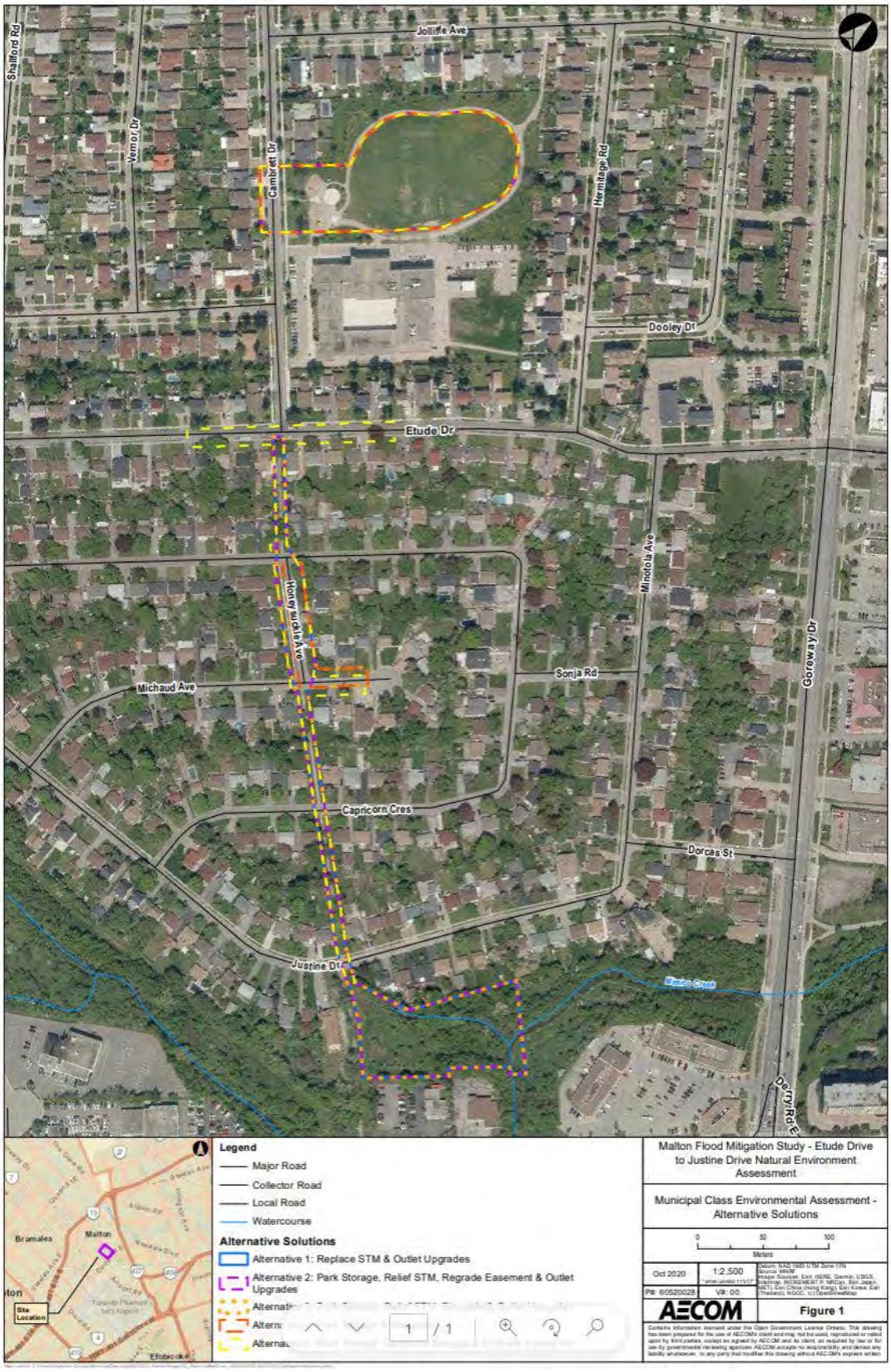

Figure 1. Alternative Solutions

2. Background Information Review

A review of secondary sources was completed prior to field investigations for lands within the Study Area and included the following sources:

- Ontario Ministry of Natural Resources and Forestry (MNRF) Land Information Ontario (LIO) GeoHub base mapping data (MNRF, 2020a) and Make-a-Map Natural Heritage Application Tool (MNRF, 2020b) for:
  - Designated natural areas (e.g., Areas of Natural and Scientific Interest [ANSIs], wooded; areas, Provincially Significant Wetlands [PSWs]/Locally Significant Wetland [LSWs]/unevaluated wetlands, provincial parks);
  - Aquatic Resource Areas (ARA);
  - Wildlife habitats; and,
  - Natural Heritage Information Centre (NHIC) provincially tracked species.

- Wildlife atlases:
  - Ontario Butterfly Atlas (OBA) Online (MacNaughton et al., 2019);
  - Ontario Breeding Bird Atlas (OBBA) Website (BSC et al., 2006);
  - Ontario Reptile and Amphibian Atlas Online (Ontario Nature, 2020);
  - Atlas of the Mammals of Ontario (Dobbyn, 1994);
  - Bat Conservation International (BCI) Species Profiles (2020); and,
  - Fisheries and Oceans Canada (DFO) Aquatic Species at Risk (SAR) on-line mapping (2020).

- Open Data Portals:
  - Toronto and Region Conservation Authority (TRCA) Open Data Portal (TRCA, 2020)

- Plans:
  - Mississauga Official Plan (2023)

- Reports:
  - Mimico Creek Watershed Report Card (TRCA 2018)

- Aerial photography.

It is both the Ministry of Environment, Conservation and Parks' (MECP) and MNRF's current direction for proponents to conduct a desktop screening for SAR and natural heritage records, respectively, using online secondary sources. In addition, information request letters were sent to MECP, MNRF, and TRCA in 2020 to inquire after additional information, reports, and/or GIS data pertaining to the Study Area. A response was received from TRCA on September 28, 2020; from MNRF Aurora district on September 17, 2020; and from MECP on November 4, 2020. Agency correspondence is provided in **Appendix A**.

3. Existing Conditions

3.1 Natural Designated Areas and Policy Areas

According to MNRF's Make-a-Map Natural Heritage Application Tool (MNRF, 2020b), there are no ANSI, provincially, locally significant or unevaluated wetlands within the Study Area; however, the valleylands associated with Mimico Creek are considered Significant Valleyland by the City. Section 6.3.12 of the City of Mississauga Official Plan (2023) defines Significant Natural Areas as areas that meet at least one of several criteria, which includes all valleylands associated with the main branches, major tributaries, and other tributaries and watercourse corridors of four watercourses, including Mimico Creek. In accordance with Section 6.3.27 of the City of Mississauga Official Plan (2023), development and site alteration are not permitted in a Significant Natural Area unless all alternatives have been considered and any negative impacts avoided. If a negative impact cannot be avoided, mitigation through restoration and enhancement will be required.

The Study Area also falls partially within the Significant Natural Areas and Natural Green Spaces of the City of Mississauga's Natural Heritage System and consists of Greenlands, Mixed Use, and Residential Low Density I Land Use Designations (City of Mississauga, 2023).

Furthermore, the Study Area falls within the limits of *Ontario Regulation (O. Reg.) 166/06 Toronto and Region Conservation Authority (TRCA): Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses.* Under Section 28 of the *Conservation Authorities Act, 1998,* Regulated Areas (i.e., or regulation limits) are established where development could be subject to flooding, erosion or dynamic beaches, or where interference with wetlands and alterations to shorelines and watercourses might have an adverse effect on those environmental features. Development or site alteration within TRCA's regulation limits will require consultation with TRCA and a may require permit application under *O. Reg. 166/06.*

3.2 Aquatic Ecology

3.2.1 Aquatic Background Information

The Study Area falls within the Mimico Creek Watershed and includes the storm drain outlet channel and a reach of the main branch of Mimico Creek. According to the Mimico Creek Watershed Report Card (TRCA, 2018), the watershed has the lowest proportion of natural cover in the TRCA jurisdiction and has chronic surface water quality impairments, particularly elevated chloride concentrations. MNRF (2020) ARA data indicate that the reach of Mimico Creek within the Study Area has a warmwater thermal regime. The warmwater thermal regime classification was confirmed for both Mimico Creek and the storm drain outlet channel by TRCA (O. Obembe, personal communication, September 28, 2020). Fish community data (MNRF, 2020) associated with the reach of Mimico Creek within the Study Area are presented in **Table 1**. Fish species documented at the nearest TRCA monitoring station (MM005WM) to the Study Area from 2002 to 2014 have also been incorporated (TRCA, 2020). No aquatic SAR were identified as present or potentially present within the Study Area from open background data sources. A response from MNRF to the information request letter did not identify any additional or missing aquatic SAR data.

Table 1. Mimico Creek Fish Community Data

Common Name	*Scientific Name*	S-Rank[1]	SARA[2]	ESA[3]	Source
Bluntnose Minnow	*Pimephales notatus*	S5	NAR	NAR	MNRF
Brook Stickleback	*Culaea inconstans*	S5	NAR	NAR	MNRF, TRCA
Common Shiner	*Luxilus cornutus*	S5	NAR	NAR	MNRF
Creek Chub	*Semotilus atromaculatus*	S5	NAR	NAR	MNRF, TRCA
Fathead Minnow	*Pimephales promelas*	S5	NAR	NAR	MNRF, TRCA
Mottled Sculpin	*Cottus bairdii*	S5	NAR	NAR	MNRF
Western Blacknose Dace	*Rhinichthys obtusus*	S5	NAR	NAR	MNRF
White sucker	*Catostomus commersonii*	S5	NAR	NAR	MNRF, TRCA

Table Legend

[1] ***S-rank:*** *The natural heritage provincial ranking system (provincial S-rank) is used by the MNRF NHIC.* National and Subnational Conservation Status Definitions available at http://explorer.natureserve.org/nsranks.htm:

S5 – Secure—Common, widespread, and abundant in the nation or state/province.

[2]***SARA Status***: *The following are definitions of the SARA status rankings assigned to each species in the table above:*

NAR (Not at Risk)*– These species have either been assessed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) as Not at Risk or there is not enough data to assess the status ranking of the species and therefore these are not listed on Schedule 1 nor do they receive protection under SARA.*
Source: Government of Canada, 2009: Frequently Asked Questions: What are the SARA schedules? Accessed on January 2017. Available: http://www.dfo-mpo.gc.ca/species-especes/faq/faq-eng.htm

[3]***ESA Status:***

NAR *(Not at Risk) – A species that has been evaluated and found to be not at risk.*

3.2.2 Aquatic Existing Conditions

The storm drain outlet channel and location of works associated with Alternatives 1, 2 and 3, identified on **Figure 2**, was assessed from the outlet structure south of Justine Drive to the confluence with Mimico Creek. The storm drain outlet channel was a permanent watercourse channelized for the first approximately 30 m from the outlet before becoming more naturalized for the remaining approximately 70 m downstream toward the confluence with the main branch of Mimico Creek. The banks and streambed of the outlet channel were armoured by Gabion baskets in the channelized reach. In the unarmoured reach, the substrates consisted of sand, silt, gravel, and clay, in order of abundance. The wetted width of the channel ranged from 3.0-4.0 m with a mean of 3.5 m and the wetted depth ranged from 0.35-0.65 m with a mean of 0.4 m. The bankfull width ranged from 4.0-4.5 m and the bankfull depth from 0.5-0.9 m. Both the left and right upstream banks (i.e. facing upstream) were moderately unstable with scouring observed the full length of the assessed reach downstream of the Gabion basket armouring. Substantial undercutting (0.4-0.5 m) of the left upstream bank was observed immediately downstream of the Gabion baskets and substantial slope failure was observed on the right upstream bank at the last meander bend upstream of the confluence with Mimico Creek. Multiple leaning or fallen trees were observed, providing further evidence of bank instability. The channel morphology was predominantly (95%) slow flowing flat with sparse pools (5%) associated with in-water trees and the scour pool at the end of the Gabion baskets. In-stream cover was sparse, limited to woody debris, cobble from the Gabion baskets, and the one undercut bank. No impediments to fish movement were observed within the outlet channel downstream of the outlet structure, which had an open connection to Mimico Creek downstream; however, a large debris jam was observed in Mimico Creek approximately 15 m downstream of the confluence. No fish were observed in either the outlet channel or Mimico Creek at the time of assessment.

Figure 2. Ecological Investigations

3.3 Vegetation Communities

Field investigations were completed by an AECOM Ecologist on October 28, 2020. Vegetation communities within the Study Area were assessed and classified into Ecological Land Classification (ELC) units as per Lee *et al.* (1998) using a combination of aerial photography interpretation and field investigations. This system provides a standard for comparing similar communities across Ontario. This protocol classifies vegetation communities through the completion of a multilayer (canopy, sub-canopy, ground cover) vegetation inventory. A summary of disturbance factors, community conditions, plant species list and representative photographs were also recorded for each vegetation patch.

With the exception of the natural area surrounding the existing outlet and associated channel to Mimico Creek south of Justine Drive, the Study Area lacked any natural vegetation communities and was limited to residential homes, mowed lawn at the Ridgewood Park and street trees planted within manicured road right-of-ways and private properties. A total of two vegetation communities were identified within 120 m of the existing outfall to Mimico Creek (henceforth referred to as the Outlet Study Area) and are described below.

Dry-Moist Old Field Meadow Type (CUM1-1): This cultural meadow community was located along the southeast banks of the Mimico Creek. This community was dominated by smooth brome (*Bromus inermis*), Virginia wildrye (*Elymus virginicus*), Canada goldenrod (*Solidago canadensis*) and late goldenrod (*Solidago altissima*). Other herbaceous species observed included wild parsnip (*Pastinaca sativa*), Canada thistle (*Cirsium arvense*), garlic mustard *(Alliaria petiolata*), purple loosestrife (*Lythrum salicaria*), Kentucky bluegrass (*Poa pratensis*) and big bluestem (*Andropogon gerardi*). Trees and shrubs were scattered across the community and included species such as Freeman's maple (*Acer x freemanii*), white spruce (*Picea glauca*), eastern white cedar (*Thuja occidentalis*), Manitoba maple (*Acer negundo*), cottony willow (*Salix eriocephala*), multiflora rose (*Rosa multiflora*), Bebb's willow (*Salix bebbiana*) and red-osier dogwood (*Cornus sericea*).

Fresh – Moist Lowland Deciduous Forest Ecosite (FOD7): This forest community was located along the banks of the stormwater outlet channel and Mimico Creek. The community was dominated by Freeman's maple, Norway maple (*Acer platanoides*), Manitoba maple and hybrid crack willow (*Salix x rubens*). The sub-canopy was dominated by common buckthorn (*Rhamnus cathartica*), eastern white cedar, European black alder (*Alnus glutinosa*), black cherry (*Prunus serotine*) and staghorn sumac (*Rhus typhina*). Species within the shrub layer included common buckthorn, English hawthorn (*Crataegus monogyna*), *staghorn* sumac and Morrow's Honeysuckle (*Lonicera morrowii*). Abundant species observed in the ground cover layer included common buckthorn, wood avens (*Geum urbanum*), lesser periwinkle (*Vinca minor*) and Virginia wildrye.

No SAR or Species of Conservation Concern (SOCC) plant species were recorded. ELC community delineations are displayed on **Figure 2**. No vegetation communities were present within the potential underground storage at Ridgewood Park and are not included in **Figure 2**.

3.4 Significant Wildlife Habitat

A Significant Wildlife Habitat (SWH) screening exercise was conducted using the Ecoregion 7E criteria schedules (MNRF 2015) to determine the presence of candidate SWH in the Study Area. Species listed as Special Concern under the provincial *Endangered Species Act* (ESA), with a provincial S-Rank of S1 to S3, or species that are listed as Endangered or Threatened by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) are referred to as SOCC (MNRF 2000). Habitat for these species is considered SWH and is afforded protection under the PPS (2020). The Significant Wildlife Habitat Technical Guide (SWHTG; MRNF 2000) divides wildlife habitat into four categories:

- Seasonal Concentration Areas;

- Rare Vegetation Communities or Specialized Habitats for Wildlife;
- Habitats of SOCC; and
- Animal Movement Corridors.

Field investigations identified three (3) candidate SWH types within the outlet Study Area; Bat Maternity Colonies, Marsh Breeding Bird Habitat and Special Concern and Rare Wildlife Species. Existing conditions did not meet criteria for SWH in Ridgewood Park. Details on the identified candidate SWH habitat are presented below and the SWH habitat screening document is provided in **Appendix B**. A full list of SOCC and their probability of occurrence within the Study Area is provided in **Table 2**.

Candidate Significant Wildlife Habitat

Marsh Breeding Bird Habitat – The cultural meadow community found within the boundaries of the Outlet Study Area may provide suitable breeding bird habitat for Green Heron (*Butorides virescens)*. According to the MNRF (2015) habitat for Green Heron includes the boundaries of sluggish streams, ponds and marshes sheltered by shrubs and trees and as such communities such as cultural meadows adjacent to suitable watercourses should be considered candidate SWH. The suitable cultural meadow within the Study Area is located on the opposite bank of the outlet channels confluence with Mimico Creek and is not expected to be impacted by the proposed works.

Bat Maternity Colonies – The majority of trees within the Outlet Study Area were found to be unsuitable habitat for bats as they were too small and lacked suitable cavities for roosting. However, large trees capable of providing suitable roosting habitat for SAR bats such as crack willow and Freeman's maple are present within the FOD7 community. While no suitable cavities for roosting were observed, leaf-off surveys for bat habitat were not conducted during field investigations. As such, the FOD7 community remains candidate habitat for bat maternity colonies. Candidate habitat also exists along both the east and west branches of Mimico Creek and Paul Coffey Park to the south.

Special Concern / Rare Wildlife Species – Candidate habitat for Special Concern species exists within Mimico Creek and the vegetation communities found within the Study Area. The FOD7 community provides candidate habitat for eastern Wood-pewee (*Contopus virens*) and Wood Thrush (*Hylocichla mustelina*), the CUM1-1 community provides candidate habitat for Monarch (*Danaus plexippus*) and Mimico Creek provides candidate habitat for Snapping Turtle (*Chelydra serpentine*). The outlet channel does not provide overwintering habitat for Snapping Turtle; however, this species may travel up the naturalized portion of the channel and into the adjacent parkland in search of potential nesting spots, although this is unlikely as well. All species are listed as SC under the *ESA*. As species specific surveys were not conducted during field investigations the FOD7 community, CUM1-1 community and Mimico Creek all remain candidate habitat for Special Concern / Rare Wildlife Species.

Table 2. Species of Conservation Concern Habitat Screening

Taxon	Common Name	Scientific Name	S-Rank[1]	COSEWIC[2]	SARA Schedule 1[3]	ESA[4]	Last Year Observed	Historical Record	Source	Probability of Occurrence within the Outlet Study Area
Birds	Barn Swallow*	*Hirundo rustica*	S5B	THR	THR	THR	2014	No	eBird, OBBA	Low – Both bridges located along Derry Road East may provide suitable nesting habitat. However, both structures are outside of the proposed alternatives and are not expected to be impacted by the proposed works.
	Common Nighthawk	*Chordeiles minor*	S4B	SC	THR	SC	2016	No	OBBA	**Low** – Deciduous forest is present within the Study Area; however, the understory was covered in dense vegetation.
	Eastern Wood-Pewee	*Contopus virens*	S4B	SC	SC	SC	2020	No	OBBA	**Medium** – forests may provide suitable breeding habitat.
	Grasshopper Sparrow	*Ammodramus savannarum*	S4B	SC	SC	SC	2014	No	OBBA	**Low** – no suitable hayfields, pastures or grasslands present.
	Purple Martin	*Progne subis*	S3S4B	-	-	-	2001-2005	No	OBBA	**Low** – forests and artificial next boxes within the Study Area, if present, may provide suitable breeding habitat. No roosting habitat was observed within the Outlet Study Area.
	Wood Thrush	*Hylocichla mustelina*	S4B	THR	THR	SC	2020	No	OBBA	**Medium** – forests may provide suitable breeding habitat.
Insect	Monarch	*Danaus plexippus*	S2N, S4B	END	SC	SC	2019	No	OBA	**Medium** – A cultural meadow with common milkweed (*Asclepias syriaca*) is present within the Study Area.
Turtle	Snapping Turtle	*Chelydra serpentina*	S4	SC	SC	SC	2019	No	ORAA	**Medium** – Mimico Creek may provide suitable habitat. Snapping Turtle may travel up the naturalized potion of the outlet channel in search for nesting sites in the parkland where suitable substrates, if any, are available.

[1] ***S-rank:*** *The natural heritage provincial ranking system (provincial S-rank) is used by the MNRF NHIC.* National and Subnational Conservation Status Definitions available at http://explorer.natureserve.org/nsranks.htm:

S2-Imperiled—Imperiled in the province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the province.
S3 – Vulnerable—Vulnerable in the province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
S4 – Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S#S# - Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).
Breeding Status Qualifiers
B – Breeding—Conservation status refers to the breeding population of the species in the province.
N – Nonbreeding—Conservation status refers to the non-breeding population of the species in the province.
Note: A breeding status is only used for species that have distinct breeding and/or non-breeding populations in the province. A breeding-status S-rank can be coupled with its complementary non-breeding-status S-rank if the species also winters in the province, and/or a migrant-status S-rank if the species occurs regularly on migration at particular staging areas or concentration spots where the species might warrant conservation attention. The two (or rarely, three) status ranks are separated by a comma (e.g., "S2B,S3N" or "SHN,S4B,S1M").

[2]***COSEWIC Status:*** COSEWIC (Committee on the Status of Endangered Wildlife in Canada) assigns a federal status ranking for all species that it assesses. Rankings include:

THR (Threatened) - A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction
SC (Special Concern) - A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.

[3]***SARA Status****:* The following are definitions of the SARA status rankings assigned to each species in the table above:

THR (Schedule 1) – These species are listed as Threatened under Schedule 1 of SARA and receive species and habitat protection under SARA, as well as recovery strategies and action plans.
SC (Schedule 1) – These species are listed as Special Concern under Schedule 1 of SARA and receive management initiatives under SARA to prevent them from becoming endangered and threatened.

[4]***ESA Status****:*

SC *(Special Concern) – A species that may become threatened or endangered due to a combination of biological characteristics and identified threats.*

∗ Barn Swallow was down-listed from Threatened to Special Concern under the Endangered Species Act, 2007 on January 25, 2023 and no longer receives the individual and habitat protection provided under Sections 9 and 10 of the Act; however, this species is now considered to be a Species of Conservation Concern and still receives protection under the Migratory Birds Convention Act, 1994, Provincial Policy Statement and Mississauga Official Plan (2023).

3.5 Species at Risk Screening

A SAR habitat assessment was undertaken for the eight (9) SAR records identified during the background review process to determine if suitable habitat for these species was potentially present within the Study Area. For the purpose of this report, SAR are defined as those species listed as Threatened, Endangered or Extirpated and receive individual and habitat protections under Sections 9 and 10 of the provincial ESA. This assessment was initially based on the characterization of vegetation communities using aerial photo interpretation and was further refined using the terrestrial existing conditions and ELC communities (**Section 3.3)** observed during field investigations. The SAR habitat assessment is provided in **Appendix C** and includes habitat preferences and a description of potentially suitable habitat within the Study Area. A summary of the habitat assessment is provided in **Table 3**.

Candidate habitat for five (5) SAR was identified in the Outlet Study Area, including: Little Brown Myotis (*Myotis lucifugus*), Northern Myotis (*Myotis septentrionalis*), Eastern Small-footed Myotis (*Myotis leibii*), Tricolored Bat (*Perimyotis subflavus*) and Chimney Swift. As stated in **Section 3.5** potential bat SAR habitat exists as large crack willow and Freeman's maple trees capable of providing suitable habitat for roosting are found within the FOD7 community. Candidate habitat for Chimney Swift also exists within the entire Study Area in the form of anthropogenic structures such as uncapped chimneys on buildings. SAR presence/absence surveys were not completed and therefore, the probability of occurrence for the above identified SAR was considered as medium based on presence of potentially suitable habitat. Further investigations may be required once the final design is available to determine if there will be an impact on potential SAR bat habitat.

Table 3. Species at Risk Habitat Screening

Taxon	Common Name	Scientific Name	S-Rank[1]	COSEWIC	SARA Schedule 1	ESA[4]	Last Year Observed	Historical Record	Source	Probability of Occurrence within the Outlet Study Area
Birds	Bank Swallow	*Riparia*	S4B	THR	THR	THR	2001-2005	No	OBBA	Low – Suitable nesting habitat was not observed.
	Bobolink	*Dolichonyx oryzivorus*	S4B	THR	THR	THR	2001-2005	No	OBBA	Low – no suitable hayfields, pastures or grasslands present.
	Chimney Swift	*Chaetura pelagica*	S4B,S4N	THR	THR	THR	2001-2005	No	OBBA	Medium – buildings with uncapped chimneys, if any, may provide suitable roosting/nesting habitat.
	Eastern Meadowlark	*Sturnella magna*	S4B	THR	THR	THR	2001-2005	No	OBBA	Low – no suitable hayfields, pastures or grasslands present.
Mammal	Eastern Small-footed Myotis	*Myotis leibii*	S2S3	-	-	END	Not available	No	BCI	Medium – buildings and forest (FOD7)may provide suitable roosting habitat.
	Little Brown Myotis	*Myotis lucifugus*	S3	END	END	END	Not available	No	BCI	Medium – buildings and forest (FOD7) may provide suitable roosting habitat.
	Northern Myotis	*Myotis septentrionalis*	S3	END	END	END	Not available	No	BCI	Medium – forest (FOD7) may provide suitable roosting habitat.
	Tricolored Bat	*Perimyotis subflavus*	S3?	END	END	END	Not available	No	BCI	Medium – forest (FOD7) may provide suitable roosting habitat.

[1] ***S-rank:*** *The natural heritage provincial ranking system (provincial S-rank) is used by the MNRF NHIC.* National and Subnational Conservation Status Definitions available at http://explorer.natureserve.org/nsranks.htm:

S2-Imperiled—Imperiled in the province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the province.
S3 – Vulnerable—Vulnerable in the province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
S4 – Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S#S# - Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4).
Breeding Status Qualifiers
B – Breeding—Conservation status refers to the breeding population of the species in the province.
N – Nonbreeding—Conservation status refers to the non-breeding population of the species in the province.

Note: A breeding status is only used for species that have distinct breeding and/or non-breeding populations in the province. A breeding-status S-rank can be coupled with its complementary non-breeding-status S-rank if the species also winters in the province, and/or a migrant-status S-rank if the species occurs regularly on migration at particular staging areas or concentration spots where the species might warrant conservation attention. The two (or rarely, three) status ranks are separated by a comma (e.g., "S2B,S3N" or "SHN,S4B,S1M").

[2]***COSEWIC Status:*** *COSEWIC (Committee on the Status of Endangered Wildlife in Canada) assigns a federal status ranking for all species that it assesses. Rankings include:*

THR *(Threatened) - A species likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction*
SC *(Special Concern) - A species of special concern because of characteristics that make it particularly sensitive to human activities or natural events, but does not include an extirpated, endangered or threatened species.*

[3]***SARA Status****: The following are definitions of the SARA status rankings assigned to each species in the table above:*

END (Schedule 1) *– These species are listed as Endangered under Schedule 1 of SARA and receive species and habitat protection under SARA, as well as recovery strategies and action plans.*
THR (Schedule 1) *– These species are listed as Threatened under Schedule 1 of SARA and receive species and habitat protection under SARA, as well as recovery strategies and action plans.*

[4]***ESA Status****:*

THR *(Threatened) – A species that is at risk of becoming endangered in Ontario if limiting factors are not reversed.*
END *(Endangered) – Endangered – a species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's Endangered Species Act.*

4. Evaluation of Short List Flood Mitigation Alternatives

The following list of criteria was used to evaluate each of the five shortlisted alternative solutions with respect to their associated potential effects on the natural environment:

- Potential for flooding mitigation
- Potential effects on terrestrial habitat and species
- Potential effects on aquatic habitat and species
- Potential effects on SAR and their habitat
- Potential number of tree removals
- Potential effects on surface and groundwater
- Potential to encounter soil and water contamination
- Potential effects on fluvial characteristics of the existing watercourse
- Anticipated environmental permitting and approval considerations

A comparative evaluation has been completed for the alternative solutions using the above noted criteria and were rated based on their potential constraints relative to the other alternatives as follows:

- High Constraints (Less Preferred)
- Medium Constraints (Moderately Preferred)
- Low Constraints (More Preferred)

Table 4 details the comparative evaluation of the five flood mitigation alternatives as shown in **Figure 1.** Alternatives 4 and 5 have the least constraints on the natural environment and therefore most preferred, as both solutions are limited to mowed lawns and road right of ways and have the least number of trees proposed for removal. Alternatives 1, 2 and 3 have similar high constraints as all three options require more trees removed within the FOD7 community which may affect bat SAR, MBCA protected birds and SOCC. As well, these alternatives propose in-water work associated with the construction of a new outfall and channel, and downstream tie-in with the existing outfall channel, having the potential to result in the death of fish or harmful alteration, disruption or destruction (HADD) of fish habitat. However, Alternative 1 is most preferred in terms of the significant flood reduction with no houses along the City's pedestrian walkway estimated to be impacted by flooding during the 100-yr flood compared to all alternatives with an estimated 7.8 m^3/s additional conveyance. Alternative 1 is also more preferred than Alternatives 2 and 3 because it has the benefit of potential storm water quality improvements associated with the storm sewer replacement from Etude Drive to Mimico Creek, creation of fish habitat, and may require less tree removal than the other two more constrained alternatives.

Table 4. Natural Environment Evaluation of Flood Mitigation Alternatives

Category	Criteria	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Natural Environment	Potential for flood mitigation	■ Significant flood reduction - no houses estimated to be impacted by flooding during 100-yr flood ■ Results in an estimated 7.8 m3/s additional conveyance	■ No significant improvement - 10 houses estimated to be impacted by flooding during 100-yr flood ■ Results in an estimated 0.4 m3/s additional conveyance	■ Underground storage would fit within path, flow at outfall shouldn't be much greater than existing, water quality benefits from bioswale, infiltration potential beneath Ridgewood Park field ■ No significant improvement ■ Results in minimal additional conveyance	■ Without the relief sewer this solution would be more cost effective and less disruptive, water quality benefits from bioswale. Infiltration potential beneath field ■ No significant improvement ■ Results in an estimated 1,950 m3 additional storage	■ Construction would be limited to the Ridgewood field and Etude, Honeysuckle & Michaud, virtually no increase of flow at outfall. Infiltration potential beneath field. ■ Slight improvement ■ Results in an estimated 200 m3 additional storage
Natural Environment	Potential effects on terrestrial habitat and species	■ Removal of vegetation within the Outlet Study Area may affect candidate bat maternity habitat if suitable cavity trees are to be removed within the FOD7 community during the all-inclusive bat active season (March 15 – November 30) ■ MBCA protected migratory birds and SOCC birds may be affected if vegetation removal is completed during the breeding bird window (April 1 to August 31) ■ Travelling Snapping Turtle may be injured if construction occurs during the active turtle window (April 1 to October 30)	■ Removal of vegetation within the Outlet Study Area may affect candidate bat maternity habitat if suitable cavity trees are to be removed within the FOD7 community during the all-inclusive bat active season (March 15 – November 30) ■ MBCA protected migratory birds and SOCC birds may be affected if vegetation removal is completed during the breeding bird window (April 1 to August 31) ■ Travelling Snapping Turtle may be injured if construction occurs during the active turtle window (April 1 to October 30)	■ Removal of vegetation within the Outlet Study Area may affect candidate bat maternity habitat if suitable cavity trees are to be removed within the FOD7 community during the all-inclusive bat active season (March 15 – November 30) ■ MBCA protected migratory birds and SOCC birds may be affected if vegetation removal is completed during the breeding bird window (April 1 to August 31) ■ Travelling Snapping Turtle may be injured if construction occurs during the active turtle window (April 1 to October 30)	■ Minimal potential effects on terrestrial environment as this alternative is limited to mowed lawns and road right of ways ■ MBCA protected migratory birds may be affected if street tree removal is completed during the breeding bird window (April 1 to August 31)	■ Minimal potential effects on terrestrial environment as this alternative is limited to mowed lawns and road right of ways ■ MBCA protected migratory birds may be affected if street tree removal is completed during the breeding bird window (April 1 to August 31)
Natural Environment	Potential effects on aquatic habitat and species	■ In-water works associated with the construction of a new outfall and channel, and downstream tie-in with the existing outfall channel have the potential to result in the death of fish or harmful alteration, disruption or destruction (HADD) of fish habitat if mitigation measures including timing windows are not followed (no work March 1 5 – July 15). ■ In-water works associated with repairs to the existing outfall structure and channel have the potential to result in the death of fish or HADD of fish habitat if mitigation measures including timing windows are not followed (no work March 15 – July 15). ■ Repairs to the existing outfall structure and channel may reduce further habitat degradation by reducing potential erosion and subsequent sediment transport into Mimico Creek.	■ In-water works associated with the construction of a new outfall and channel, and downstream tie-in with the existing outfall channel have the potential to result in the death of fish or HADD of fish habitat if mitigation measures including timing windows are not followed (no work March 1 5 – July 15). ■ In-water works associated with repairs to the existing outfall structure and channel have the potential to result in the death of fish or HADD of fish habitat if mitigation measures including timing windows are not followed (no work March 15 – July 15). ■ Repairs to the existing outfall structure and channel may reduce further habitat degradation by reducing potential erosion and subsequent sediment transport into Mimico Creek. ■ Repairs to the existing outfall channel provides opportunity to	■ In-water works associated with the construction of a new outfall and channel, and downstream tie-in with the existing outfall channel have the potential to result in the death of fish or HADD of fish habitat if mitigation measures including timing windows are not followed (no work March 1 5 – July 15). ■ In-water works associated with repairs to the existing outfall structure and channel have the potential to result in the death of fish or HADD of fish habitat if mitigation measures including timing windows are not followed (no work March 15 – July 15). ■ Repairs to the existing outfall structure and channel may reduce further habitat degradation by reducing potential erosion and subsequent sediment transport into Mimico Creek. ■ Repairs to the existing outfall channel provides opportunity to	■ Not applicable; no impacts to the watercourse	■ Not applicable; no impacts to the watercourse

Category	Criteria	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
		■ Repairs to the existing outfall channel provides opportunity to naturalize this reach and improve overall fish habitat quality. ■ Replacement of the storm sewer from Etude Drive to Mimico Creek offers the greatest potential for inclusion of water quality protection measures (e.g. oil grit separators, catch basin shields) ■ Construction of a new outlet channel could create new fish habitat if naturalized.	naturalize this reach and improve overall fish habitat quality. ■ Construction of a new outlet channel could create new fish habitat if naturalized.	naturalize this reach and improve overall fish habitat quality. ■ Construction of a new outlet channel could create new fish habitat if naturalized.		
Natural Environment	Potential effects on SAR and SAR habitat	■ If removal of suitable cavity trees occurs during the all-inclusive bat active season (March 15 – November 30), bat SAR may be affected. ■ No impacts to Chimney Swifts are anticipated as there are no buildings demolitions.	■ If removal of suitable cavity trees occurs during the all-inclusive bat active season (March 15 – November 30), bat SAR may be affected. ■ No impacts to Chimney Swifts are anticipated as there are no buildings demolitions.	■ If removal of suitable cavity trees occurs during the all-inclusive bat active season (March 15 – November 30), bat SAR may be affected. ■ No impacts to Chimney Swifts are anticipated as there are no buildings demolitions.	■ No anticipated impacts to SAR	■ No anticipated impacts to SAR
Natural Environment	Potential number of tree removals	■ Based on the preliminary tree inventory, 402 trees are recommended for removal. 377 of these trees are City-owned. ■ Of the 402 trees, a total of 74 are recommended for removal as they are in dead/poor or hazardous condition and are considered a risk. A total of 41 trees are recommended for injury with protection, with 17 being recommended for injury and 24 for minor injury. A further 55 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 151 trees are recommended to be retained ■ The above tree removals are based on the larger Alternative 1 Study Area boundary and does not represent the final construction footprint.	■ Based on the preliminary tree inventory, 445 trees are recommended for removal. 420 of these trees are City-owned. ■ Of the 445 trees, 74 are recommended for removal as they are in poor/dead or hazardous condition and are considered a risk. A total of 45 trees are recommended for injury with protection, with 18 being recommended for injury and 27 for minor injury. A further 87 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 72 trees are recommended to be retained ■ The above tree removals are based on the larger Alternative 2 Study Area boundary and does not represent the final construction footprint.	■ Based on the preliminary tree inventory, 446 trees are recommended for removal. 421 of these trees are City-owned. ■ Of the 446 trees, a total of 74 are recommended for removal as they are in poor/dead or hazardous conditions and are considered a risk. A total of 41 trees are recommended for injury with protection, with 17 being recommended for injury and 24 for minor injury. A further 91 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 71 trees are recommended to be retained ■ The above tree removals are based on the larger Alternative 3 Study Area boundary and does not represent the final construction footprint.	■ Based on the preliminary tree inventory, 120 trees are recommended for removal. 47 of these trees are City-owned. ■ Of the 120 trees, a total of 74 are recommended for removal as they are in poor/dead or hazardous conditions and are considered a risk. A total of 6 trees are recommended for injury with protection, with 2 being recommended for injury and 4 for minor injury. A further 45 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 478 trees are recommended to be retained ■ The above tree removals are based on the larger Alternative 4 Study Area boundary and does not represent the final construction footprint.	■ Based on the preliminary tree inventory, 172 trees are recommended for removal. 103 of these trees are City-owned. ■ Of the 172 trees, a total of 74 are recommended for removal as they are in poor/dead or hazardous conditions and are considered a risk. A total of 21 trees are recommended for injury with protection, with 8 being recommended for injury and 13 for minor injury. A further 64 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 392 trees are recommended to be retained ■ The above tree removals are based on the larger Alternative 5 Study Area boundary and does not represent the final construction footprint.
Natural Environment	Potential to encounter soil and water contamination	■ Potential to encounter soil and water contamination ■ Works in or near water carry risk of water contamination via spills from machinery (e.g. refuelling, hydraulic leaks).	■ Potential to encounter soil and water contamination ■ Works in or near water carry risk of water contamination via spills from machinery (e.g. refuelling, hydraulic leaks).	■ Potential to encounter soil and water contamination ■ Works in or near water carry risk of water contamination via spills from machinery (e.g. refuelling, hydraulic leaks).	■ Potential to encounter soil and water contamination ■ No works in or near water	■ Potential to encounter soil and water contamination ■ No works in or near water

Category	Criteria	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
Natural Environment	Potential effects on surface and groundwater	■ Increased risk of erosion due to site grading and use of machinery may result in sediment transport into Mimico Creek. ■ There are no vulnerable source water protection areas associated with Alternative 1. ■ Potential for dewatering during construction	■ Increased risk of erosion due to site grading and use of machinery may result in sediment transport into Mimico Creek. ■ There are no vulnerable source water protection areas associated with Alternative 2. ■ Potential for dewatering during construction	■ Increased risk of erosion due to site grading and use of machinery may result in sediment transport into Mimico Creek. ■ There are no vulnerable source water protection areas associated with Alternative 3. ■ Potential for dewatering during construction	■ None anticipated. ■ There are no vulnerable source water protection areas associated with Alternative 4. ■ Potential for dewatering during construction	■ None anticipated. ■ There are no vulnerable source water protection areas associated with Alternative 5. ■ Potential for dewatering during construction
Natural Environment	Potential effects on fluvial geomorphological characteristics of the existing watercourse	■ The implications for sediment entrainment and transport downstream of the outlet, including East Mimico Creek should be considered. The watercourses form and function are influenced by channel flow and the sediment regime. Changes to the amount of flow and/or frequency of flow have the potential to impact entrainment and transport of sediment. ■ Proposed alteration could impact bed and bank stability, and flow energy dissipation. ■ Downstream of the confluence there are some slight increases in water level (1-3 cm) and velocity impacts at the outfall channel are noted but dissipate downstream. ■ There is no discernable impact (increase or decrease) to sediment entrainment or transport as a result of the proposed increase in flows from the outlet into East Mimico Creek.	■ The implications for sediment entrainment and transport downstream of the outlet, including East Mimico Creek should be considered. The watercourses form and function are influenced by channel flow and the sediment regime. Changes to the amount of flow and/or frequency of flow have the potential to impact entrainment and transport of sediment. ■ Proposed alteration could impact bed and bank stability, and flow energy dissipation.	■ The implications for sediment entrainment and transport downstream of the outlet, including East Mimico Creek should be considered. The watercourses form and function are influenced by channel flow and the sediment regime. Changes to the amount of flow and/or frequency of flow have the potential to impact entrainment and transport of sediment. ■ Proposed alteration could impact bed and bank stability, and flow energy dissipation.	■ Not applicable; no impacts to the watercourse	■ Not applicable; no impacts to the watercourse
Natural Environment	Anticipated environmental permitting and approval considerations	■ A permit will be required from Toronto and Region Conservation Authority under Ontario Regulation (O. Reg.) 166/06 Toronto and Region Conservation Authority: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses. ■ Submission of a DFO Request for Review detailing the proposed in-water work and outlet channel alteration is recommended; DFO will determine whether issuance of an Authorization is required based upon the Request for Review.	■ A permit will be required from Toronto and Region Conservation Authority under O. Reg. 166/06 Toronto and Region Conservation Authority: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses. ■ Submission of a DFO Request for Review detailing the proposed in-water work and outlet channel alteration is recommended; DFO will determine whether issuance of an Authorization is required based upon the Request for Review. ■ *Fisheries Act* Authorization may be required due to in-water work	■ A permit will be required from Toronto and Region Conservation Authority under O. Reg. 166/06 Toronto and Region Conservation Authority: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses. ■ Submission of a DFO Request for Review detailing the proposed in-water work and outlet channel alteration is recommended; DFO will determine whether issuance of an Authorization is required based upon the Request for Review. ■ *Fisheries Act* Authorization may be required due to in-water work	■ A permit may be required from Toronto and Region Conservation Authority under O. Reg. 166/06 Toronto and Region Conservation Authority: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses. ■ Contravention of the *Migratory Birds Convention Act* (1994) is not anticipated provided any vegetation removal occurs outside of the breeding bird season (April 1 to August 31).	■ A permit may be required from Toronto and Region Conservation Authority under O. Reg. 166/06 Toronto and Region Conservation Authority: Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses. ■ Contravention of the *Migratory Birds Convention Act* (1994) is not anticipated provided any vegetation removal occurs outside of the breeding bird season (April 1 to August 31).

Category	Criteria	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
		■ *Fisheries Act* Authorization may be required due to in-water work and alteration of fish habitat. This will be confirmed during detailed design. ■ A License to Collect Fish for Scientific Purposes under the *Fish and Wildlife Conservation Act* (FWCA) (1997) O. Reg. 261/05 will be required for conducting a fish salvage in advance of any in-water work. ■ Contravention of the *Migratory Birds Convention Act* (1994) is not anticipated provided any vegetation removal occurs outside of the breeding bird season (April 1 to August 31) and there are no potential cavity trees removed in the FOD7 community for Pileated Woodpecker (*Dryocopus pileatus*). ■ It is not anticipated that authorization under the ESA would be required for bat SAR if minimal suitable cavity trees are removed outside of the all-inclusive bat window (March 15 to November 30).	and alteration of fish habitat. This will be confirmed during detailed design. ■ A License to Collect Fish for Scientific Purposes under the FWCA O. Reg. 261/05 will be required for conducting a fish salvage in advance of any in-water work. ■ Contravention of the *Migratory Birds Convention Act* (1994) is not anticipated provided any vegetation removal occurs outside of the breeding bird season (April 1 to August 31) and there are no potential cavity trees removed in the FOD7 community for Pileated Woodpecker. ■ It is not anticipated that authorization under the ESA would be required for bat SAR if minimal suitable cavity trees are removed outside of the all-inclusive bat window (March 15 to November 30).	and alteration of fish habitat. This will be confirmed during detailed design. ■ A License to Collect Fish for Scientific Purposes under the FWCA O. Reg. 261/05 will be required for conducting a fish salvage in advance of any in-water work. ■ Contravention of the *Migratory Birds Convention Act* (1994) is not anticipated provided any vegetation removal occurs outside of the breeding bird season (April 1 to August 31) and there are no potential cavity trees removed in the FOD7 community for Pileated Woodpecker. ■ It is not anticipated that authorization under the ESA would be required for bat SAR if minimal suitable cavity trees are removed outside of the all-inclusive bat window (March 15 to November 30).		
Natural Environment	Evaluation Ranking	Medium Constraints (Moderately Preferred)	High Constraints (Less Preferred)	High Constraints (Less Preferred)	Low Constraints (More Preferred)	Low Constraints (More Preferred)

5. Preferred Flood Mitigation Solution

Although Alternative 1 is not the preferred alternative from a natural environment perspective (refer to **Section 4** above), Alternative 1 as identified as the preferred flood mitigation solution as this alternative offers the most flood reduction for this Malton Flood Mitigation Study. **Figure 3** shows the proposed storm outfall design for Alternative 1. This involves replacing the existing storm sewer with a larger box storm sewer beneath the pedestrian walkway and Honeysuckle Avenue within the existing City property, from Etude Drive to the outfall channel and associated restoration. There will also be regrading of the walkway for the creation of an overland flow route. Additional inlets would also be required.

The preliminary preferred solution also includes a new outfall upgrade and associated channel realignment south of Justine Drive adjacent to the existing outfall channel in Derry Greenway Park that flows into Mimico Creek. The existing outlet headwall will be expanded to accommodate the box culvert and the channel will be expanded and rebuilt. The existing gabion basket retaining wall on the north side of the outlet channel will be reinforced.

This solution significantly reduces the potential impacts of flooding to properties in this specific area, minimizes impacts to public parks, and has a lower overall cost when compared to the other alternatives.
Based on the modeling results, there is a significant reduction in flooding. The implementation of the preferred solution would eliminate all homes from being impacted along the City's walkway during a 100-year storm event.

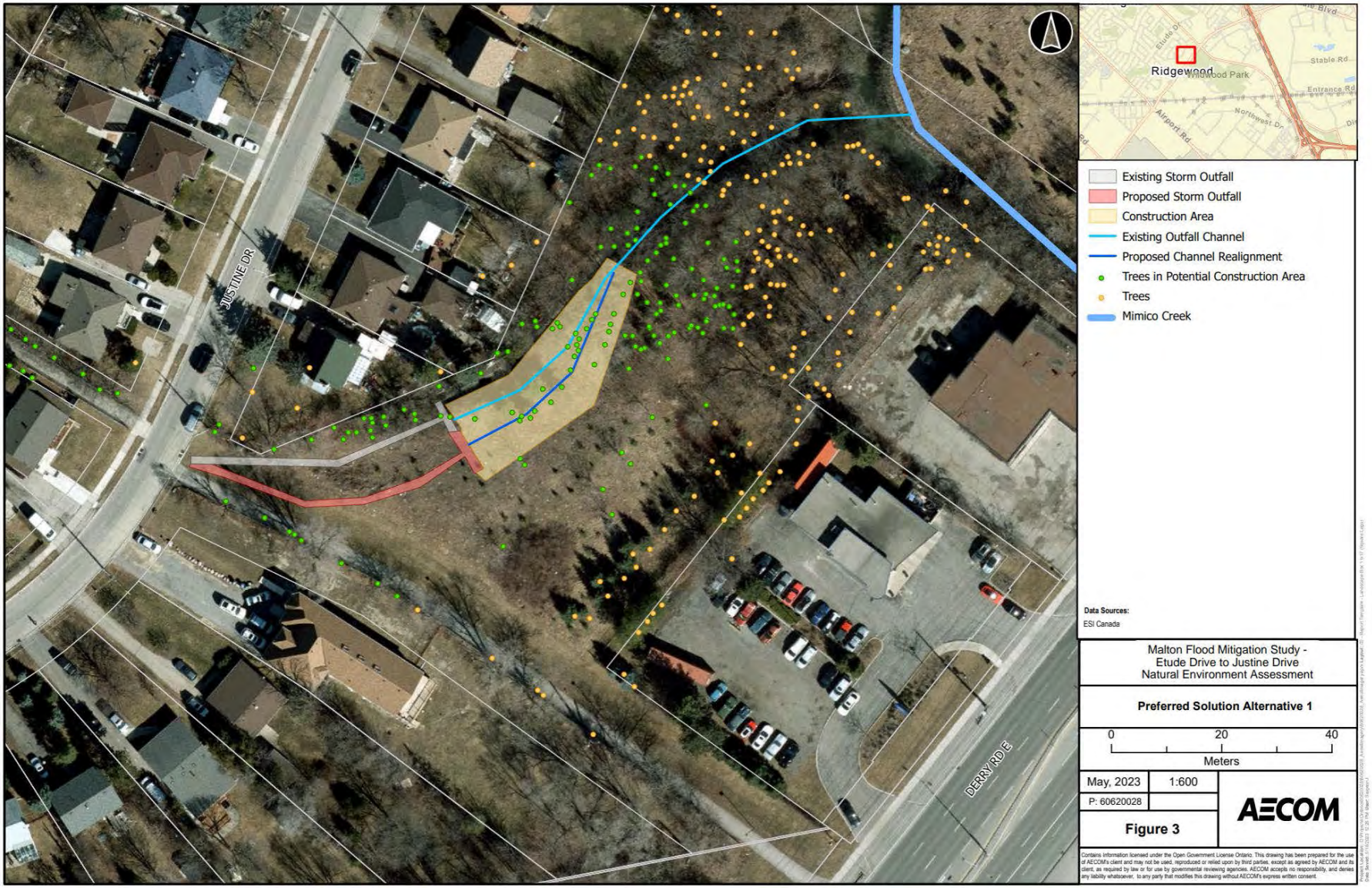

Figure 3. Preferred Solution Alternative 1

6. Environmental Constraints and Considerations

The following are environmental constraints and consideration for the overall preferred solution Alternative 1 based on a high-level potential effect's assessment on the identified natural heritage features described in **Section 4**:

- Aquatic Environmental Constraints and Considerations:
  - Mimico Creek and the storm drain outlet channel provides fish habitat.
  - Background data records did not indicate the presence aquatic SAR.
  - For all in-water works or works within the high-water mark:
    - Consult with DFO in the form of a Request for Review submission no later than the 60% detailed design stage to confirm permitting requirements (see **Section 7**).
    - Given the warmwater classification of the Mimico Creek, a warmwater fisheries timing window is anticipated for any in-water work. The typical warmwater timing window does not allow in-water work from March 15 – July 15 (allowable in-water working period of July 16 – March 14); however, this should be confirmed with TRCA for works within their regulated limits, or otherwise with MNRF and DFO concurrent with the advancement of detailed design.
    - In-water undertakings and activities will be completed during low flow periods, when possible.
    - Watercourses will not be forded.
    - An erosion and sediment control (ESC) plan should be developed and implemented to manage sediment on site. ESC measures should be installed pre-construction that will stabilize disturbed areas and protect the watercourse until the landscape is stabilized. ESC measures should be inspected and maintained/repaired as needed throughout construction..
    - All equipment fueling and maintenance activities should be controlled to prevent the entry of deleterious substances, including hydrocarbons, grease or other chemicals into any watercourse or Natural Heritage Feature. All refueling and maintenance should be conducted a minimum of 30 meters from any watercourse or site drainage feature.
    - A Spill Prevention and Management Plan should be developed to reduce the risk of deleterious substance release to water, including a response, reporting, and containment plan. Spill kits should be on site and readily available and include a Spill Action Plan which includes procedures for clean-up, containment, and reporting (Ontario Spills Action Center).
    - Storage of heavy machinery, fuels, portable washrooms and other hazardous material should occur a minimum of 30 metres from any watercourse or site drainage feature.

- Terrestrial Environmental Constraints and Considerations:
  - Candidate habitat for SAR bats and Candidate SWH for Bat Maternity Colonies was identified in the Outlet Study Area. Leaf-off cavity tree searches for bat SAR and Pileated Woodpecker should be completed if tree removal is required within the FOD7 community.
  - It is recommended that all proposed vegetation clearing occur outside of the breeding bird period (i.e. April 1 to August 31) and all that all trees located within the FOD7 community greater than 10 cm in Diameter at Breast Height (DBH) are removed outside of the bat roosting season (March 15

to November 30) to reduce potential impacts to breeding birds and SAR bats within the site limits and avoid contravention of the MBCA and ESA. In the unlikely event that a potentially nest cavity tree for Pileated Woodpecker is identified and removal of this tree cannot be avoided, additional mitigation measures, field studies and permits may be required.

- A tree inventory for the Study Area has been completed under a separate report by AECOM certified arborists. Tree protection, removals and compensation should be conducted in accordance with the recommendations outlined in the Malton Creek Flood Mitigation Plan (Justine Drive and Etude Drive) Arborist Report (AECOM, 2020). The tree inventory should be reviewed and updated based on the final construction impact area, as needed.
- Wildlife exclusion fencing should be installed prior to April 1 of any year to prevent turtles from accidentally entering the construction work area if construction at the outfall must occur during the active turtle season (April 1 to October 30). Stockpiles of gravel and sand required for construction should not be placed in areas that are accessible to nesting turtles. If this is not possible, then exclusion fencing around stockpiled gravel and sand should be installed prior to May 1 and maintained until July 30.
- The slope of stockpiled substrates (gravel, sand, soil) should be reduced and maintained to 70 degrees or less during the breeding bird season (April 1 to August 31) to prevent burrowing MBCA protected and SAR birds from nesting in the stockpiled material.
- Should wildlife be encountered on site during construction a qualified ecologist should be contacted to determine the appropriate protocols for relocation.
- Construction related activities should be limited to the daylight hours (i.e. 7am to 7pm) in order to reduce the amount of noise disturbance.
- Any areas disturbed as a result of the proposed works should be re-vegetated or otherwise stabilized once construction is complete through the planting of native trees and herbaceous species. Common milkweed should be included in the proposed seed mix to improve Monarch habitat within the Study Area.

7. Anticipated Permits and Approvals

Table 5 provides a summary of the permits and approvals that are anticipated prior to commencement of the preferred Alternative 1.

Table 5. Summary of Anticipated Permits and Approvals

Level of Government	Legislation	Governing Authority	Description of Legislation	Applicability to the Project
Federal	*Species At Risk Act, 2002 (SARA)*	Environment and Climate Change Canada (ECCC)	▪ SARA is federal legislation that monitors and protects SAR in Canada, provides recovery strategies for Extirpated, Endangered or Threatened species, and manages species of Special Concern (Government of Canada, 2016). ▪ Species listed as Extirpated, Endangered or Threatened under SARA, and their residences are only protected on federal lands unless they are aquatic species or migratory birds listed on Schedule 1. The Governor and Council may issue an order for additional species listed as SAR under SARA to be protected on non-federal lands where critical habitat has been identified and other provincial or municipal legislation does not adequately protect the species. ▪ For the purposes of this memorandum, migratory birds listed as Extirpated Endangered or Threatened under Schedule 1 of SARA that are not provincial SAR are considered SOCC.	▪ Not anticipated for aquatic species. No aquatic SAR present. ▪ Not anticipated for terrestrial species.
Federal	*Fisheries Act, 1985*	Fisheries and Oceans Canada (DFO)	▪ The federal *Fisheries Act* was amended on June 21, 2019 to restore protections to fish and fish habitat. ▪ Habitat protection provisions came into force on August 28, 2019 that prohibit the death of fish and the Harmful Alteration, Destruction, or Disruption of fish habitat. ▪ The 2019 amendments to the *Fisheries Act* no longer provide for a self-assessment process unless activities can follow the measures to protect fish and fish habitat as stipulated by DFO, or if works are occurring in a waterbody that is not protected under the *Fisheries Act*.	▪ Submission of a DFO Request for Review (RfR) detailing the proposed in-water work is recommended; DFO will determine whether an Authorization is required based upon the RfR. ▪ *Fisheries Act* Authorization may be required due to in-water work and alteration of fish habitat.

Level of Government	Legislation	Governing Authority	Description of Legislation	Applicability to the Project
Federal	*Migratory Birds Convention Act, 1994* (MBCA)	Environment and Climate Change Canada (ECCC)	▪ Intended to protect migratory birds, their eggs and their nests. ▪ Includes more than 700 species of birds. ▪ Prohibits the possession, destruction and harm of migratory birds and/or their nests unless it is: - a nest shelter, eider duck shelter or duck box that does not contain a live bird or a viable egg; - a nest that was built by a species that is not listed in Schedule 1 of the MBCA if that nest does not contain a live bird or a viable egg; - a nest that was built by a species that is listed in Schedule 1 if the following conditions are met: o the person who damages, destroys, removes or disturbs that nest provided a written notice to the Minister a number of months beforehand that corresponds to the number of months set out in column 3 of the relevant Table to that Schedule for the species, and, the nest has not been used by migratory birds since the notice was received by the Minister.	▪ Contravention of the MBCA is not anticipated provided any vegetation removal occurs outside of the breeding bird season (April 1 to August 31). ▪ In the unlikely event that a potential nest cavity tree suspected to be used by Pileated Woodpecker (listed on Schedule 1 of the Act) is identified for removal during leaf-off surveys, the nest must be registered on the abandoned nest registry and a permit to remove the nest cavity tree before the designated wait time of three years has passed may be required.
Provincial	*Endangered Species Act, 2007* (ESA)	Ontario Ministry of the Environment, Conservation and Parks (MECP)	▪ Under the ESA, species are listed as Extirpated, Endangered, Threatened and Special Concern. ▪ The ESA prohibits the killing, harming or harassment of Endangered or Threatened species and the damage or destruction of their habitat. ▪ The MECP may grant a permit or other authorization for activities that would otherwise not be allowable under the ESA. ▪ For the purposes of this, memorandum, Special Concern species are considered SOCC.	▪ Not anticipated for aquatic species. No aquatic SAR present. ▪ Candidate habitat for SAR bats exists within the Outfall Study Area. Authorization under the ESA for bat SAR is not anticipated provided that limited number of potential cavity trees are removed such the remaining treed habitat continue to provide and function as bat roosting habitat and tree removal occurs outside of the all-inclusive bat active season of March 15 to November 30.
Provincial	*Fish and Wildlife Conservation Act, 1997*	Ontario Ministry of Natural Resources and Forestry (MNRF)	▪ Provides protection and regulation (e.g., ownership and possession, sale, facilities, administrative, import/export, transportation, habitat) for wildlife in Ontario. ▪ Under the *Fisheries Act*, the protection and conservation of fish and fish habitat is legislated.	▪ A License to Collect Fish for Scientific Purposes under Ontario Regulation 261/05 will be required for conducting a fish salvage in advance of any in-water work.

Level of Government	Legislation	Governing Authority	Description of Legislation	Applicability to the Project
			▪ Comply with the fish and fish habitat protection provisions of the *Fisheries Act* by incorporating measures to avoid causing the death of fish. ▪ Includes protection for raptors and other bird species not protected under the MBCA. Nests of these bird species can only be removed if a permit is obtained from the MNRF.	
Provincial	*Planning Act, 1990* and Provincial Policy Statement (PPS; 2020)	Ontario Ministry of Municipal Affairs and Housing	▪ PPS identifies seven types of natural heritage features to be protected: • Significant habitat of Endangered or Threatened species; • Significant wetlands; • Coastal wetlands; • Fish habitat; • Significant woodlands in Ecoregions 6E and 7E; • Significant valley lands in Ecoregions 6E and 7E; • Significant wildlife habitat (including habitat of SOCC); and • Significant areas including ANSI.	▪ There are no permits to be obtained under the PPS; however, mitigation measures and best management practices will reduce the risk of impacts to Fish and SOCC Habitat and the Significant Valleyland.
Municipal	*Encroachment By-law* (57-04)	City of Mississauga	▪ The Encroachment By-law (2004) protects all municipal assets from interference or destruction at the aerial, surface, and sub-surface levels on municipal property. This includes trees of all sizes of diameter at breast height.	▪ The project's Impact Area and Buffer Area encompasses trees on municipal property. However, given that this project is being undertaken by the City of Mississauga, permits for the injury and destruction of trees on municipal property are not anticipated to be required for this project. Furthermore, as per the contractual agreement with the consultant, all municipal trees that were less than 5 cm in diameter at breast height were not collected as part of this project.
Municipal	*Private Tree Protection By-law* (254-12)	City of Mississauga	▪ The Private Tree Protection By-law (2017) provides protection for all trees on private property within the City of Mississauga that are equal to or greater than 15 cm in diameter at breast height. Private properties are exempt from injuring or destroying two (2) trees at or above the aforementioned diameter size per annum; City	▪ The project's Impact Area and Buffer Area encompasses trees on private property. However, given that this project is being undertaken by the City of Mississauga, permits for the injury and destruction of trees on private property are not anticipated to be required for this project.

Level of Government	Legislation	Governing Authority	Description of Legislation	Applicability to the Project
			permission must be obtained for the injury or removal of three (3) or more trees on a private property.	
Local	*Guideline for Determining Ecosystem Compensation*	TRCA	▪ The TRCA requests that all trees that are equal to or greater than 2.5 cm in diameter in breast height be inventoried and assessed within the Impact Area of a project and a 10 m Buffer Area surrounding the Impact Area. As per the TRCA's Guideline for Determining Ecosystem Compensation (2018), specific tree compensation ratios are based on diameter class (10 classes)	▪ An area of the project is within TRCA regulated area and, therefore, these guidelines for tree data collection and tree compensation apply to this area of the project.
Local	*O. Reg. 166/06*: TRCA Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses	TRCA	▪ A permit under O.Reg. 166/06 is required if development occurs within TRCA's Regulated Areas, including adjacent or close to Shoreline, in river or stream valleys and hazardous lands, and/or within 120 m of provincially significant wetlands and 30 m of all other wetlands.	▪ Required as the Study Area falls within TRCA's Regulated Areas.

8. Additional Work and Next Steps

The following are the identified additional work and next steps during detail design for the preferred Alternative 1 Solution:

- Submission of a DFO RfR based on the aquatic existing conditions field investigations detailing the proposed works and potential effects of the proposed works on fish and fish habitat. Based upon their assessment of the RfR, DFO will determine whether a *Fisheries Act* Authorization is required for the project.

- Prior to the installation of a new storm box sewer and/or underground storage facility that will alter flow inputs to the outfall channel and East Mimico Creek, a hydraulic analysis should be developed in order to predict proposed velocities compared to existing conditions for various flow conditions. This can be used to assess whether current bed and bank materials will be susceptible to erosion and/or depositional processes due to changes in velocity.

- If trees are proposed to be removed within the FOD7 community, leaf-off cavity tree searches for bat SAR and woodpecker suitable habitat should be completed prior to the start of construction.

- Consultation with TRCA to confirm permit application requirements under O. Reg. 166/06 and compensation requirements related to tree removals based on the results of the Arborist report. A Natural Heritage Impact Study (NHIS) may be required by the TRCA.

9. References

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Appendix A

Agency Correspondence

From: Atherton, Claire
Sent: September-16-20 12:11 PM
To: scp.aurora@ontario.ca
Cc: Godard, Michael
Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information
Attachments: LET-2020-09-14-RFI_MNRF-60620028-clean.pdf

To Whom It May Concern,

Please find attached a formal information request letter. AECOM has been retained by the City of Mississauga to undertake a Class B Municipal Class Environmental Assessment for flood infrastructure improvements in Mississauga, Ontario. The purpose of the attached letter is to request additional natural heritage information to be considered as part of the environmental assessment process for the Project.

Thank you in advance for any assistance you may provide. Please let me know if you have any questions or require any additional information in order to process our request.

Thank you,

Claire Atherton
Ecologist
M: 1-226-752-8415
O: 1-519-650-8628
E: claire.atherton@aecom.com

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Aurora District
Ministry of Natural Resources and Forestry
50 Bloomington Road, Richmond Hill, ON
L4G 0L8

September 16, 2020

Project #
60620089

Dear Sir or Madam:

Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information

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AECOM has been retained by the City of Mississauga to undertake a Class B Municipal Class Environmental Assessment for flood infrastructure improvements from Etude Dr. to Justine Dr. in Mississauga, Ontario. The Study Area for this project is provided in **Figure 1**.

AECOM has undertaken a preliminary review of available background data within the Study Area using the following available sources:

- Ontario Ministry of Natural Resources and Forestry (MNRF)'s Make-a-Map: Natural Heritage Areas application and Natural Heritage Information Centre (NHIC) records (MNRF, 2020);
- Ontario Ministry of Natural Resources and Forestry (MNRF)'s LIO GeoHub database (MNRF, 2020);
- Ontario Breeding Bird Atlas (OBBA; BSC, 2020);
- Ontario Reptile and Amphibian Atlas (ORAA; Ontario Nature, 2020);
- Fisheries and Oceans Canada (DFO) Aquatic Species at Risk mapping (2020);
- Ontario Butterfly Atlas (OBA; TEA, 2020); and
- eBird (Cornell Lab of Ornithology, 2020).

Review of MNRF's Make-a-Map: Natural Heritage Areas application identified the Humber River as a designated natural area within the Study Area.

According to available species records, seven provincial Species of Conservation Concern (SOCC) and five provincial Species at Risk (SAR) were identified as potentially occurring within the vicinity of the Study Area. These species and their associated S-ranks and status under the *Endangered Species Act, 2007* (ESA) and *Species at Risk Act, 2002* (SARA) are shown in **Table 1**.

Table 1. SAR and SOCC Records Within the Study Area and Vicinity

Common Name	Scientific Name	S-Rank	ESA Status	SARA Status	Source	Last Observation Date
Birds						
Bank Swallow	*Riparia riparia*	S4B	THR	THR	OBBA	-
Barn Swallow	*Hirundo rustica*	S5B	THR	THR	OBBA	-
Bobolink	*Dolichonyx oryzivorus*	S4B	THR	THR	OBBA	-
Chimney Swift	*Chaetura pelagica*	S4B,S4N	THR	THR	OBBA	-
Common Nighthawk	*Chordeiles minor*	S4B	SC	THR	OBBA	-
Eastern Meadowlark	*Sturnella magna*	S4B	THR	THR	OBBA	-
Eastern Wood-pewee	*Contopus virens*	S4B	SC	SC	OBBA	-
Grasshopper Sparrow	*Ammodramus savannarum*	S4B	SC	SC	OBBA	-
Purple Martin	*Progne subis*	S3S4B	-	-	OBBA	-
Wood Thrush	*Hylocichla mustelina*	S4B	SC	THR	OBBA	-
Insects						
Monarch	*Danaus plexippus*	S2N,S4B	SC	SC	OBA	6-Jul-2019
Reptiles						
Snapping Turtle	*Chelydra serpentina*	S4	SC	SC	ORAA	2019

A review of MNRF's GeoHub database including Aquatic Resource Area (ARA) Survey Point and Polygon Segment data identified Mimico Creek as the watercourse within the Study Area. It also identified the watercourse as having a warm water thermal regime and fish community consisting of a mix of cold, cool and warmwater species as identified in **Table 2** below.

Table 2. Fish Community Records for Mimico Creek

Fish Community					
Blacknose Dace	Bluntnose Minnow	Brook Stickleback	Common Shiner	Creek Chub	Fathead Minnow
Mottled Sculpin	White Sucker				

During this preliminary desktop review, AECOM has also identified data gaps for which we require additional information. **Please consider this a formal request for the following information**. If you could please review the above listed data and provide us with any additional information, reports, and GIS data pertaining to:

- Presence of Natural Areas (Environmentally Significant / Sensitive Areas, Provincially Significant Wetlands [PSWs], Areas of Natural and Scientific Interest [ANSIs], Provincial Parks, Conservation Reserves, and Wildlife Management Areas);
- Natural Area Reports;
- In-water Timing Restrictions;
- Important Commercial or Recreation Fisheries;

- Water Quantity / Quality Data;
- Groundwater Discharge Areas;
- Watercourse Names, Thermal and Flow Regimes;
- Fish Habitat Sensitivity;
- Habitat Information and Location;
- Fisheries Management Objectives / plans;
- Fish Community Records;
- Benthic Invertebrate data;
- Known fish spawning;
- Aboriginal Fisheries; and,
- Significant Wildlife Habitat including SOCC occurrences or Wildlife use of the area.

Any insight MNRF can provide is greatly appreciated. If you have any questions, please do not hesitate to contact the undersigned. Thank you for your time and assistance.

Sincerely,
AECOM Canada Ltd.

Claire Atherton, B.Sc. (Hons.)
Ecologist, Water & Natural Resources
Environment, Canada
Claire.Atherton@aecom.com

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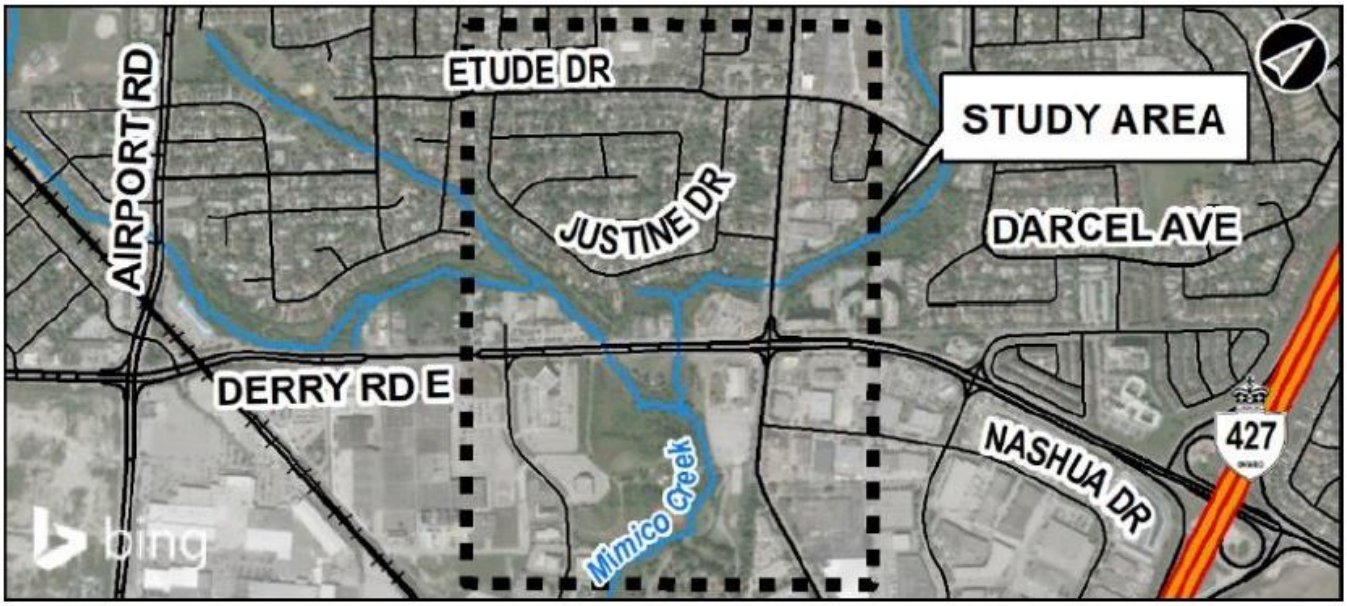

Figure 1. Malton Flood Cluster 6 Study Area

From: Atherton, Claire
Sent: September-17-20 4:11 PM
To: Godard, Michael
Subject: FW: Malton Flood Cluster 6 - Request for Natural Heritage Information
Attachments: NHGuide_MNRF_2019-04-01.pdf

Here's the response from MNRF. Should I reply re-iterating that we've already done a background screening and are looking for additional information?

Thanks,

Claire Atherton
M: 1-226-752-8415

From: Scientific Collection Permits Aurora (MNRF) <scp.aurora@ontario.ca>
Sent: Thursday, September 17, 2020 3:52 PM
To: Atherton, Claire <claire.atherton@aecom.com>
Subject: [EXTERNAL] RE: Malton Flood Cluster 6 - Request for Natural Heritage Information

Hello Claire,
Thank you for your request for information on natural heritage features. In order to provide the most efficient service possible, the attached Natural Heritage Information Request Guide has been developed to assist you with accessing natural heritage data and values from convenient online sources. It remains the proponent's responsibility to complete a preliminary screening for each project, to obtain available information from multiple sources, to conduct any necessary field studies, and to consider any potential environmental impacts that may result from an activity. We wish to emphasize the need for the proponents of development activities to complete screenings prior to contacting the Ministry or other agencies for more detailed technical information and advice.
The Ministry continues to work on updating data housed by Lands Information Ontario and the Natural Heritage Information Centre, and ensuring this information is accessible through online resources. Species at risk data is regularly being updated. To ensure access to reliable and up to date information, please contact SAROntario@ontario.ca.
This information will assist in scoping the necessary field assessments for an area if development or site alteration is proposed. This information is not meant to replace the responsibility of the proponent to undertake species and / or habitat surveys. Surveys or additional site level assessment are often required to confirm presence or absence of natural heritage features and values. Environmental consulting firms have the professional and technical expertise to assess sites for natural heritage features and can gauge the potential for such features to exist.
Absence or lack of information for a given geographic area does not necessarily mean the absence of natural heritage features. Many areas in Ontario have never been surveyed and new plant and animal species records are still being discovered for many localities. In addition, new species may be listed and new natural heritage features may be defined over time. For these reasons, the Ministry cannot provide a definitive statement on the presence, absence or condition of natural heritage features in all parts of Ontario.
Thank you for your inquiry.
MNRF Aurora District Office
50 Bloomington Road, Aurora, ON, L4G 0L8
Tel: (905) 713-7400
Email: scp.aurora@ontario.ca

From: Atherton, Claire <claire.atherton@aecom.com>
Sent: September 16, 2020 12:11 PM
To: Scientific Collection Permits Aurora (MNRF) <scp.aurora@ontario.ca>
Cc: Godard, Michael <Michael.Godard@aecom.com>
Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

To Whom It May Concern,

Please find attached a formal information request letter. AECOM has been retained by the City of Mississauga to undertake a Class B Municipal Class Environmental Assessment for flood infrastructure improvements in Mississauga, Ontario. The purpose of the attached letter is to request additional natural heritage information to be considered as part of the environmental assessment process for the Project.

Thank you in advance for any assistance you may provide. Please let me know if you have any questions or require any additional information in order to process our request.

Thank you,

Claire Atherton
Ecologist
M: 1-226-752-8415
O: 1-519-650-8628
E: claire.atherton@aecom.com

AECOM
50 Sportsworld Crossing Road
West Entrance, Suite 290
Kitchener, Ontario N2P 0A4, Canada
T: 1-519-650-5313
aecom.com

From: Atherton, Claire
Sent: September-28-20 11:19 AM
To: Scientific Collection Permits Aurora (MNRF)
Cc: Godard, Michael
Subject: RE: Malton Flood Cluster 6 - Request for Natural Heritage Information
Attachments: LET-2020-09-14-RFI_MNRF-60620028-clean.pdf

Good morning,

Thank you for your response. AECOM has undertaken a preliminary screening of available background data for the study area from the following sources:

MNRF Make-a-Map: Natural Heritage Areas application;
MNRF LIO GeoHub database;
Ontario Breeding Bird Atlas;
Ontario Reptile and Amphibian Atlas;
DFO Aquatic Species at Risk mapping;
Ontario Butterfly Atlas; and
eBird.

During the preliminary screening, we identified data gaps for which we require additional information. It would be much appreciated if you could please provide us with any additional information, reports, and/or GIS data pertaining to:

Presence of Natural Areas (Environmentally Significant / Sensitive Areas, Provincially Significant Wetlands [PSWs], Areas of Natural and Scientific Interest [ANSIs], Provincial Parks, Conservation Reserves, and Wildlife Management Areas);
Natural Area Reports;
In-water Timing Restrictions;
Important Commercial or Recreation Fisheries;
Water Quantity / Quality Data;
Groundwater Discharge Areas;
Watercourse Names, Thermal and Flow Regimes;
Fish Habitat Sensitivity;
Habitat Information and Location;
Fisheries Management Objectives / plans;
Fish Community Records;
Benthic Invertebrate data;
Known fish spawning;
Aboriginal Fisheries; and,
Significant Wildlife Habitat including SOCC occurrences or Wildlife use of the area.

I've attached a formal information request letter detailing the results of the preliminary background screening.

Thank you in advance for any assistance you may provide. Please let me know if you have any questions or require any additional information in order to process our request.

Thank you,

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Thank you in advance for any assistance you may provide. Please let me know if you have any questions or require any additional information in order to process our request.

Thank you,

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E: claire.atherton@aecom.com

AECOM
50 Sportsworld Crossing Road
West Entrance, Suite 290
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T: 1-519-650-5313
aecom.com

From: Atherton, Claire
Sent: September-16-20 11:47 AM
To: Sharon.Lingertat@trca.ca
Cc: Godard, Michael
Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information
Attachments: LET-2020-09-14-RFI_TRCA-60620028.pdf

Dear Ms. Lingertat,

Please find attached a formal information request letter. AECOM has been retained by the City of Mississauga to undertake a Class B Municipal Class Environmental Assessment for flood infrastructure improvements in Mississauga, Ontario. The purpose of the attached letter is to request additional natural heritage information to be considered as part of the environmental assessment process for the Project.

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Thank you,

Claire Atherton
Ecologist
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F: 519.650.3424
www.aecom.com

Sharon Lingertat
Toronto Region Conservation Authority
101 Exchange Avenue, Concord, ON
L4K 5R6

September 16, 2020

Project #
60620089

Dear Ms. Lingertat:

Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information

---

AECOM has been retained by the City of Mississauga to undertake a Class B Municipal Class Environmental Assessment for flood infrastructure improvements from Etude Dr. to Justine Dr. in Mississauga, Ontario. The Study Area for this project is provided in **Figure 1**.

AECOM has undertaken a preliminary review of available background data within the Study Area using the following available sources:

- Ontario Ministry of Natural Resources and Forestry (MNRF)'s Make-a-Map: Natural Heritage Areas application and Natural Heritage Information Centre (NHIC) records (MNRF, 2020);
- Ontario Breeding Bird Atlas (OBBA; BSC, 2020);
- Ontario Reptile and Amphibian Atlas (ORAA; Ontario Nature, 2020);
- Fisheries and Oceans Canada (DFO) Aquatic Species at Risk mapping (2020);
- Ontario Butterfly Atlas (OBA; TEA, 2020); and
- eBird (Cornell Lab of Ornithology, 2020).

Review of MNRF's Make-a-Map: Natural Heritage Areas application identified the Humber River as a designated natural area within the Study Area.

According to available species records, seven provincial Species of Conservation Concern (SOCC) and five provincial Species at Risk (SAR) were identified as potentially occurring within the vicinity of the Study Area. These species and their associated S-ranks and status under the *Endangered Species Act, 2007* (ESA) and *Species at Risk Act, 2002* (SARA) are shown in **Table 1**.

Table 1. SAR and SOCC Records Within the Study Area and Vicinity

Common Name	Scientific Name	S-Rank	ESA Status	SARA Status	Source	Last Observation Date
Birds						
Bank Swallow	*Riparia riparia*	S4B	THR	THR	OBBA	-
Barn Swallow	*Hirundo rustica*	S5B	THR	THR	OBBA	-
Bobolink	*Dolichonyx oryzivorus*	S4B	THR	THR	OBBA	-
Chimney Swift	*Chaetura pelagica*	S4B,S4N	THR	THR	OBBA	-
Common Nighthawk	*Chordeiles minor*	S4B	SC	THR	OBBA	-
Eastern Meadowlark	*Sturnella magna*	S4B	THR	THR	OBBA	-
Eastern Wood-pewee	*Contopus virens*	S4B	SC	SC	OBBA	-
Grasshopper Sparrow	*Ammodramus savannarum*	S4B	SC	SC	OBBA	-
Purple Martin	*Progne subis*	S3S4B	-	-	OBBA	-
Wood Thrush	*Hylocichla mustelina*	S4B	SC	THR	OBBA	-
Insects						
Monarch	*Danaus plexippus*	S2N,S4B	SC	SC	OBA	6-Jul-2019
Reptiles						
Snapping Turtle	*Chelydra serpentina*	S4	SC	SC	ORAA	2019

During this preliminary desktop review, AECOM has also identified data gaps for which we require additional information. **Please consider this a formal request for the following information**. If you could please review the above listed data and provide us with any additional information, reports, and GIS data pertaining to:

- Presence of Natural Areas (Environmentally Significant / Sensitive Areas, Provincially Significant Wetlands [PSWs], Areas of Natural and Scientific Interest [ANSIs], Provincial Parks, Conservation Reserves, and Wildlife Management Areas);
- Natural Area Reports;
- In-water Timing Restrictions;
- Important Commercial or Recreation Fisheries;
- Water Quantity / Quality Data;
- Groundwater Discharge Areas;
- Watercourse Names, Thermal and Flow Regimes;
- Fish Habitat Sensitivity;
- Habitat Information and Location;
- Fisheries Management Objectives / plans;
- Fish Community Records;
- Benthic Invertebrate data;
- Known fish spawning;
- Aboriginal Fisheries; and,
- Significant Wildlife Habitat including SOCC occurrences or Wildlife use of the area.

Any insight TRCA can provide is greatly appreciated. If you have any questions, please do not hesitate to contact the undersigned. Thank you for your time and assistance.

Sincerely,
AECOM Canada Ltd.

Claire Atherton, B.Sc. (Hons.)
Ecologist, Water & Natural Resources
Environment, Canada
Claire.Atherton@aecom.com

References

Bird Studies Canada, 2020:
Atlas of the Breeding Birds of Ontario. Accessed September 2020. https://www.birdsontario.org/atlas/index.jsp.

Cornell Lab of Ornithology, 2020:
eBird. Accessed September 2020. https://ebird.org/home.

Fisheries and Oceans Canada, 2020:
Aquatic Species at Risk Map. Accessed September 2020 http://www.dfo-mpo.gc.ca/species-especes/sara-lep/map-carte/index-eng.html.

Ministry of Natural Resources and Forestry, 2020:
Make a Map: Natural Heritage Areas, Natural Heritage Information Centre. Accessed September 2020. https://www.gisapplication.lrc.gov.on.ca/mamnh/Index.html?site=MNR_NHLUPS_NaturalHeritage&viewer=NaturalHeritage&locale=en-US.

Ontario Nature, 2020:
Ontario Reptile and Amphibian Atlas. Accessed September 2020. https://www.ontarioinsects.org/herp/index.html.

Toronto Entomologists' Association, 2020:
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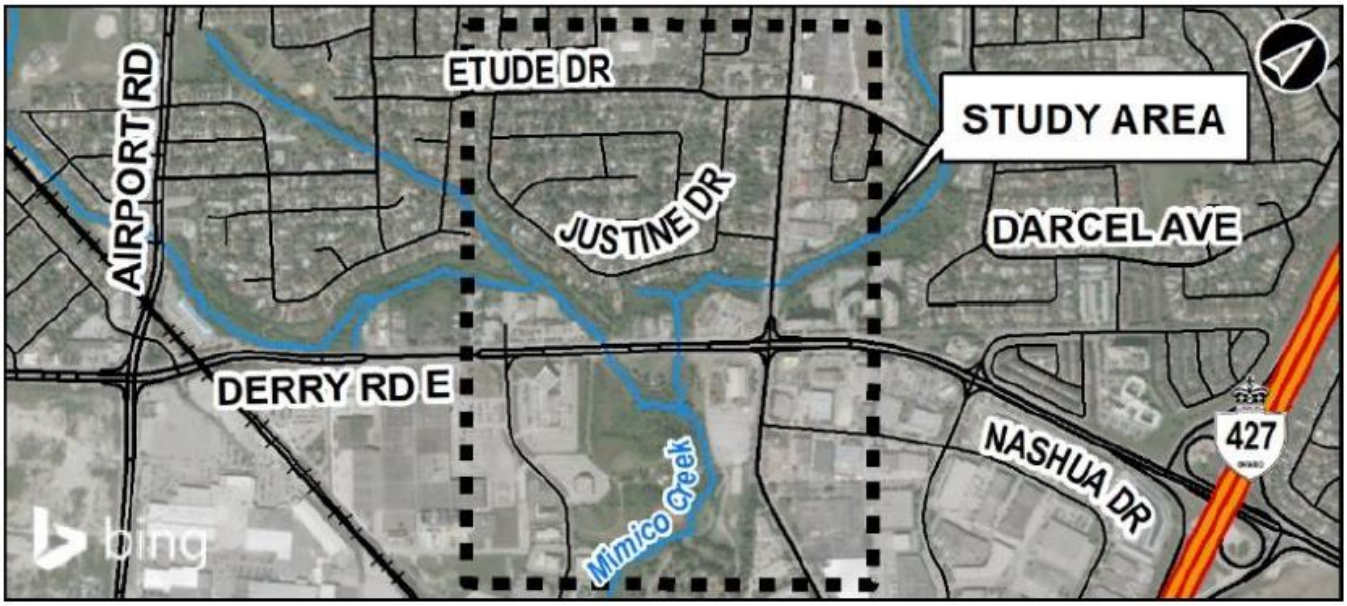

Figure 1. Malton Flood Cluster 6 Study Area

From: Atherton, Claire
Sent: September-28-20 1:20 PM
To: Godard, Michael
Subject: FW: Malton Flood Study- TRCA Geomatics Data Request

Response from TRCA regarding the Malton data request.

Claire Atherton
M: 1-226-752-8415

From: Olusola Obembe <olusola.obembe@trca.ca>
Sent: Monday, September 28, 2020 11:46 AM
To: Atherton, Claire <claire.atherton@aecom.com>
Cc: Sharon Lingertat <Sharon.Lingertat@trca.ca>
Subject: [EXTERNAL] Malton Flood Study- TRCA Geomatics Data Request

Hi Claire,

For the study area, the closest Regional Watershed Monitoring Program (RWMP) monitoring site is MM005WM. Station MM004WM is also nearby. These stations will have both fish and benthic invertebrate samples. Both data are available on our open data platform. https://data.trca.ca/dataset.

For Thermal Regimes, our staff has taken a look at the stream temperatures and this is a warm water stream on all the branches within the study area.
You can find other available dataset on our open data platform https://data.trca.ca/dataset.

Thank you.

Olusola Obembe
GIS Technician
Information Technology and Records Management | Corporate Services

T: (416) 661-6600 Ext 6440
E: olusola.obembe@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

From: Atherton, Claire
Sent: September-16-20 11:44 AM
To: sarontario@ontario.ca
Cc: Godard, Michael
Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information
Attachments: LET-2020-09-14-RFI_MECP-60620028.pdf

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Thank you,

Claire Atherton
Ecologist
M: 1-226-752-8415
O: 1-519-650-8628
E: claire.atherton@aecom.com

AECOM
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Canada

T: 519.650.5313
F: 519.650.3424
www.aecom.com

Ministry of Environment, Conservation and Parks

September 16, 2020

Project #
60620089

Dear Sir or Madam:

Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information

---

AECOM has been retained by the City of Mississauga to undertake a Class B Municipal Class Environmental Assessment for flood infrastructure improvements from Etude Dr. to Justine Dr. in Mississauga, Ontario. The Study Area for this project is provided in **Figure 1**.

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- Ontario Butterfly Atlas (OBA; TEA, 2020); and
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Review of MNRF's Make-a-Map: Natural Heritage Areas application identified the Humber River as a designated natural area within the Study Area.

According to available species records, seven provincial Species of Conservation Concern (SOCC) and five provincial Species at Risk (SAR) were identified as potentially occurring within the vicinity of the Study Area. These species and their associated S-ranks and status under the *Endangered Species Act, 2007* (ESA) and *Species at Risk Act, 2002* (SARA) are shown in **Table 1**.

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Common Nighthawk	*Chordeiles minor*	S4B	SC	THR	OBBA	-
Eastern Meadowlark	*Sturnella magna*	S4B	THR	THR	OBBA	-
Eastern Wood-pewee	*Contopus virens*	S4B	SC	SC	OBBA	-
Grasshopper Sparrow	*Ammodramus savannarum*	S4B	SC	SC	OBBA	-
Purple Martin	*Progne subis*	S3S4B	-	-	OBBA	-
Wood Thrush	*Hylocichla mustelina*	S4B	SC	THR	OBBA	-
Insects						
Monarch	*Danaus plexippus*	S2N,S4B	SC	SC	OBA	6-Jul-2019
Reptiles						
Snapping Turtle	*Chelydra serpentina*	S4	SC	SC	ORAA	2019

During this preliminary desktop review, AECOM has also identified data gaps for which we require additional information. **Please consider this a formal request for the following information**. If you could please review the above listed data and provide us with any additional information, reports, and GIS data pertaining to:

- SAR occurrences and potential to occur.

Any insight MECP can provide is greatly appreciated. If you have any questions, please do not hesitate to contact the undersigned. Thank you for your time and assistance.

Sincerely,
AECOM Canada Ltd.

Claire Atherton, B.Sc. (Hons.)
Ecologist, Water & Natural Resources
Environment, Canada
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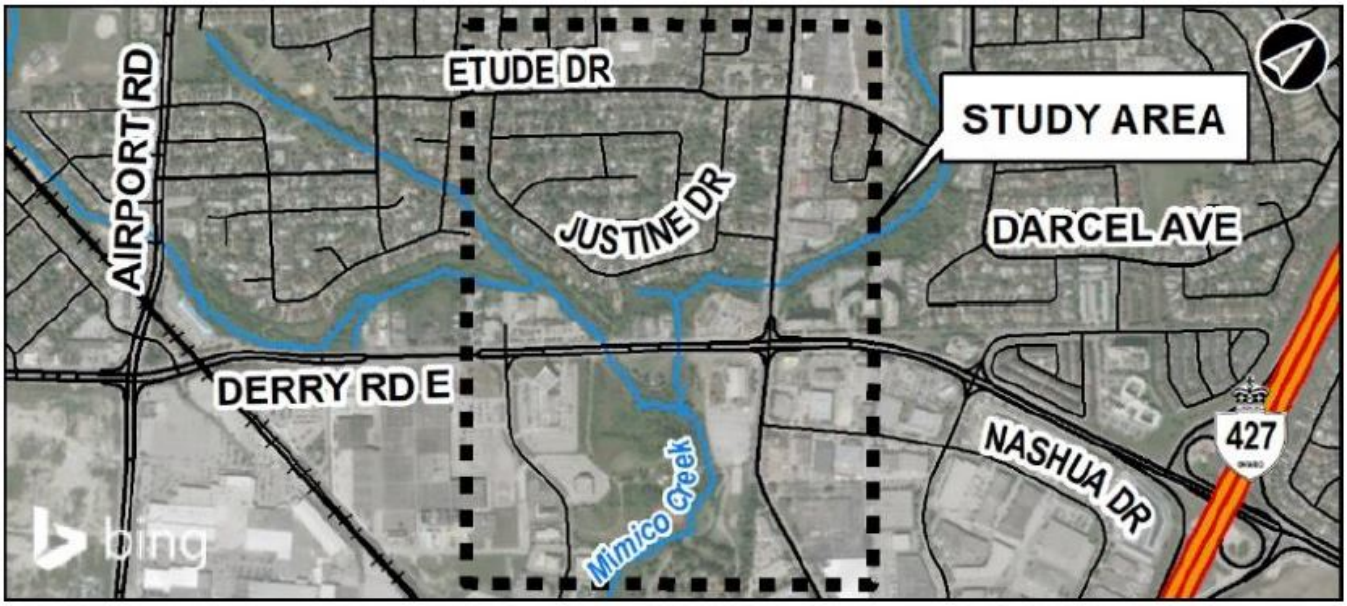

Figure 1. Malton Flood Cluster 6 Study Area

From: Eplett, Megan (MECP) <Megan.Eplett@ontario.ca>
Sent: November-04-20 10:32 AM
To: Atherton, Claire
Cc: Godard, Michael
Subject: [EXTERNAL] RE: Malton Flood Cluster 6 - Request for Natural Heritage Information

Hello Claire,

Thank you for providing information regarding the Class EA for the Malton Flood Cluster 6. I have reviewed the site location against our SAR records and have no additional species to add beyond what was including in the list in your letter.

Should you anticipate any impacts to species at risk as the project proceeds please reach out to MECP for guidance.

Thank you,

Megan

Megan Eplett | Management Biologist | Permissions and Compliance | Species at Risk Branch | Ontario Ministry of Environment, Conservation and Parks
50 Bloomington Road, Aurora, Ontario, L4G 0L8 | Phone: 289-221-1794 | Email: megan.eplett@ontario.ca

---

From: Atherton, Claire <claire.atherton@aecom.com>
Sent: Wednesday, September 16, 2020 11:44 AM
To: Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: Godard, Michael <Michael.Godard@aecom.com>
Subject: Malton Flood Cluster 6 - Request for Natural Heritage Information

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Appendix B

Significant Wildlife Habitat Screening

SWH Ecoregion 7E Criterion Schedule – January 2015

Table 1.1 Seasonal Concentration Areas of Animals.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
Waterfowl Stopover and Staging Areas (Terrestrial) **<u>Rationale:</u>** Habitat important to migrating waterfowl.	American Black Duck Wood Duck Green-winged Teal Blue-winged Teal Mallard Northern Pintail Northern Shoveler American Wigeon Gadwall	CUM1 CUT1 Plus evidence of annual spring flooding from melt water or run-off within these Ecosites.	• Fields with sheet water during Spring (mid-March to May). • Fields flooding during spring melt and run-off provide important invertebrate foraging habitat for migrating waterfowl. • Agricultural fields with waste grains are commonly used by waterfowl, these are not considered SWH unless they have spring sheet water available cxlviii. <u>Information Sources</u> • Anecdotal information from the landowner, adjacent landowners or local naturalist clubs may be good information in determining occurrence. • Reports and other information available from Conservation Authorities • Sites documented through waterfowl planning processes (e.g. EHJV implementation plan) • Field Naturalist Clubs • Ducks Unlimited Canada • Natural Heritage Information Centre (NHIC) Waterfowl Concentration Area	Studies carried out and verified presence of an annual concentration of any listed species, evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects”ccxi • Any mixed species aggregations of 100Ⓔ or more individuals required. • The flooded field ecosite habitat plus a 100-300m radius area, dependant on local site conditions and adjacent land use is the significant wildlife habitat • Annual use of habitat is documented from information sources or field studies (annual use can be based on studies or determined by past surveys with species numbers and dates). • SWHMiST Index #7 provides development effects and mitigation measures.	**No;** The habitat present is not large enough to support large numbers of waterfowl. Furthermore, it is unlikely that suitable flooding conditions will develop within the meadow community given its topography. Indicator species were not observed during field investigations; however, migratory bird surveys were not completed.	No further action required.
Waterfowl Stopover and Staging Areas (Aquatic) **<u>Rationale:</u>** Important for local and migrant waterfowl populations during the spring or fall migration or both periods combined. Sites	Canada Goose Cackling Goose Snow Goose American Black Duck Northern Pintail Northern Shoveler American Wigeon Gadwall Green-winged Teal Blue-winged Teal Hooded Merganser Common Merganser Lesser Scaup Greater Scaup	MAS1 MAS2 MAS3 SAS1 SAM1 SAF1 SWD1 SWD2 SWD3 SWD4 SWD5 SWD6 SWD7	• Ponds, marshes, lakes, bays, coastal inlets, and watercourses used during migration. Sewage treatment ponds and storm water ponds do not qualify as a SWH, however a reservoir managed as a large wetland or pond/lake does qualify. • These habitats have an abundant food supply (mostly aquatic invertebrates and vegetation in shallow water) <u>Information Sources</u>	Studies carried out and verified presence of: • Aggregations of 100Ⓔ or more of listed species for 7 daysⒺ, results in > 700 waterfowl use days. • Areas with annual staging of ruddy ducks, canvasbacks, and redheads are SWH cxlix • The combined area of the ELC ecosites and a 100m radius area is the SWH cxlviii • Wetland area and shorelines associated with sites identified within the SWHTG cxlviii Appendix K cxlix are significant	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
identified are usually only one of a few in the eco-district.	Long-tailed Duck Surf Scoter White-winged Scoter Black Scoter Ring-necked duck Common Goldeneye Bufflehead Redhead Ruddy Duck Red-breasted Merganser Brant Canvasback Ruddy Duck		• Environment Canada. • Naturalist clubs often are aware of staging/stopover areas. • OMNRF Wetland Evaluations indicate presence of locally and regionally significant waterfowl staging. • Sites documented through waterfowl planning processes (e.g. EHJV implementation plan) • Ducks Unlimited projects • Element occurrence specification by Nature Serve: http://www.natureserve.org • Natural Heritage Information Centre (NHIC) Waterfowl Concentration Area	wildlife habitat. • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects”ccxi • Annual Use of Habitat is Documented from Information Sources or Field Studies (Annual can be based on completed studies or determined from past surveys with species numbers and dates recorded). • SWHMiSTcxlix Index #7 provides development effects and mitigation measures.		
Shorebird Migratory Stopover Area **<u>Rationale:</u>** High quality shorebird stopover habitat is extremely rare and typically has a long history of use.	Greater Yellowlegs Lesser Yellowlegs Marbled Godwit Hudsonian Godwit Black-bellied Plover American Golden-Plover Semipalmated Plover Solitary Sandpiper Spotted Sandpiper Semipalmated Sandpiper Pectoral Sandpiper White-rumped Sandpiper Baird’s Sandpiper Least Sandpiper Purple Sandpiper Stilt Sandpiper Short-billed Dowitcher Red-necked Phalarope Whimbrel Ruddy Turnstone Sanderling Dunlin	BBO1 BBO2 BBS1 BBS2 BBT1 BBT2 SDO1 SDS2 SDT1 MAM1 MAM2 MAM3 MAM4 MAM5	• Shorelines of lakes, rivers and wetlands, including beach areas, bars and seasonally flooded, muddy and un-vegetated shoreline habitats. • Great Lakes coastal shorelines, including groynes and other forms of armour rock lakeshores, are extremely important for migratory shorebirds in May to mid-June and early July to October. • Sewage treatment ponds and storm water ponds do not qualify as a SWH. <u>Information Sources</u> • Western hemisphere shorebird reserve network. • Canadian Wildlife Service (CWS) Ontario Shorebird Survey. • Bird Studies Canada • Ontario Nature • Local birders and naturalist clubs • Natural Heritage Information Center (NHIC) Shorebird Migratory Concentration Area	Studies confirming: • Presence of 3 or more of listed species and > 1000Ⓔ shorebird use days during spring or fall migration period. (shorebird use days are the accumulated number of shorebirds counted per day over the course of the fall or spring migration period) • Whimbrel stop briefly (<24hrs) during spring migration, any site with >100Ⓔ Whimbrel used for 3 years or more is significant. • The area of significant shorebird habitat includes the mapped ELC shoreline ecosites plus a 100m radius area cxlviii • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects”ccxi • SWHMiSTcxlix Index #8 provides development effects and mitigation measures.	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.
Raptor Wintering Area **<u>Rationale:</u>** Sites used by multiple species, a high number of	Rough-legged Hawk Red-tailed Hawk Northern Harrier American Kestrel Snowy Owl **<u>Special Concern:</u>**	<u>Hawks/Owls:</u> Combination of ELC Community Series; need to have present one Community Series from each land	• The habitat provides a combination of fields and woodlands that provide roosting, foraging and resting habitats for wintering raptors.	Studies confirm the use of these habitats by: • One or more Short-eared Owls or; One or more Bald Eagles or; At least 10 individuals and two of the listed hawk/owl species Ⓔ. • To be significant a site must be used	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
individuals and used annually are most significant	Short-eared Owl Bald Eagle	class; Forest: FOD, FOM, FOC. Upland: CUM; CUT; CUS; CUW. <u>Bald Eagle:</u> Forest community Series: FOD, FOM, FOC, SWD, SWM or SWC on shoreline areas adjacent to large rivers or adjacent to lakes with open water (hunting area).	• Raptor wintering sites (hawk/owl) need to be > 20 ha cxlviii, cxlix with a combination of forest and upland. xvi, xvii, xviii, xix, xx, xxi. • Least disturbed sites, idle/fallow or lightly grazed field/meadow (>15ha) with adjacent woodlands • Field area of the habitat is to be wind swept with limited snow depth or accumulation. • Eagle sites have open water, large trees and snags available for roosting cxlix <u>Information Sources:</u> • OMNRF Ecologist or Biologist • Field Naturalist Clubs • Natural Heritage Information Center (NHIC) Raptor Winter Concentration Area • Data from Bird Studies Canada • Results of Christmas Bird Counts • Reports and other information available from Conservation Authorities.	regularly (3 in 5 years) cxlix for a minimum of 20 days by the above number of birdsⒺ. • The habitat area for an Eagle winter site is the shoreline forest ecosites directly adjacent to the prime hunting areaⒺ • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiST Index #10 and #11 provides development effects and mitigation measures.		
Bat Hibernacula **<u>Rationale;</u>** Bat hibernacula are rare habitats in all Ontario landscapes.	Big Brown Bat Tri-coloured Bat	Bat Hibernacula may be found in these ecosites: CCR1 CCR2 CCA1 CCA2 (Note: buildings are not considered to be SWH)	• Hibernacula may be found in caves, mine shafts, underground foundations and Karsts. • Active mine sites should not be considered as SWH • The locations of bat hibernacula are relatively poorly known. <u>Information Sources:</u> • OMNRF for possible locations and contact for local experts • Natural Heritage Information Center (NHIC) Bat Hibernaculum • Ministry of Northern Development and Mines for location of mine shafts. • Clubs that explore caves (e.g. Sierra Club) • University Biology Departments with bat experts.	• All sites with confirmed hibernating bats are SWH Ⓔ. • The habitat area includes a 200m radius around the entrance of the hibernaculum, Ⓔ for most development types and 1000m for wind farms. • Studies are to be conducted during the peak swarming period (Aug. – Sept.). Surveys should be conducted following methods outlined in the “Bats and Bat Habitats: Guidelines for Wind Power Projects”. • SWHMiST Index #1 provides development effects and mitigation measures.	**No;** There are no caves, mine shafts, underground foundations or Karsts within the Outlet Study Area. Candidate habitat was not identified within the Outlet Study Area.	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		

Bat Maternity Colonies
 	
<u>Rationale:</u>
Known locations of forested bat maternity colonies are extremely rare in all Ontario landscapes.
	Big Brown Bat
	Silver-haired Bat
		Maternity colonies considered SWH are found in forested Ecosites. All ELC Ecosites in ELC Community Series:
		FOD
		FOM
		SWD
		SWM
			• Maternity colonies can be found in tree cavities, vegetation and often in buildings xxii, xxv, xxvi, xxvii, xxxi (buildings are not considered to be SWH).
			• Maternity roosts are not found in caves and mines in Ontario.
			• Maternity colonies located in Mature deciduous or mixed forest stands, ,with >10/ha large diameter (>25cm dbh) wildlife trees
			• Female Bats prefer wildlife tree (snags) in early stages of decay, class 1-3 or class 1 or 2.
			• Silver-haired Bats prefer older mixed or deciduous forest and form maternity colonies in tree cavities and small hollows. Older forest areas with at least 21 snags/ha are preferred,
			
			<u>Information Sources:</u>
			• OMNRF for possible locations and contact for local experts
			• University Biology Departments with bat experts.
				• Maternity Colonies with confirmed use by;
				  • >10 Big Brown BatsⒺ
				  • >5 Adult Female Silver-haired BatsⒺ
				• The area of the habitat includes the entire woodland or a forest stand ELC Ecosite or an Ecoelement containing the maternity coloniesⒺ.
				• Evaluation methods for maternity colonies should be conducted following methods outlined in the “Bats and Bat Habitats: Guidelines for Wind Power Projects”.
				• SWHMiSTIndex #12 provides development effects and mitigation measures.
					Candidate;
					
					A deciduous forest (FOD7) community is present within the Outlet Study Area.
					
					Leaf-off bat habitat assessments and acoustic surveys were not completed.
						No candidate bat cavity trees were observed within the Outlet Study Area during site investigations. However, leaf off surveys were not conducted.
						It is recommended that leaf-off surveys be completed once the design of the outlet channel has been finalized to assess if there will be an impact to bat habitat. It is also recommended that any vegetation removal be conducted outside of the bat roosting season (April 1st - September 30th).

Turtle Wintering Areas **<u>Rationale:</u>** Generally sites are the only known sites in the area. Sites with the highest number of individuals are most significant.	Midland Painted Turtle **<u>Special Concern:</u>** Northern Map Turtle Snapping Turtle	Midland Painted Turtles; ELC Community Classes; SW, MA, OA and SA, ELC Community Series; FEO and BOO Northern Map Turtle; Open Water areas such as deeper rivers or streams and lakes with current can also be used as over-wintering habitat.	• For most turtles, wintering areas are in the same general area as their core habitat. Water has to be deep enough not to freeze and have soft mud substrates. • Over-wintering sites are permanent water bodies, large wetlands, and bogs or fens with adequate Dissolved Oxygen cix, cx, cxi, cxii • Man-made ponds such as sewage lagoons or storm water ponds should not be considered SWH. <u>Information Sources:</u> • EIS studies carried out by Conservation Authorities. • Local field naturalists and experts, as well as university herpetologists may also know where to find some of these sites. • OMNRF Ecologist or Biologist • Field Naturalist clubs	• Presence of 5 over-wintering Midland Painted Turtles is significantⒺ. • One or more Northern Map Turtle or Snapping Turtle over-wintering within a wetland is significantⒺ. • The mapped ELC ecosite area with the over wintering turtles is the SWH. If the hibernation site is within a stream or river, the deep-water pool where the turtles are over wintering is the SWH. • Over wintering areas may be identified by searching for congregations (Basking Areas) of turtles on warm, sunny days during the fall (Sept. – Oct.) or spring (Mar. – May) cvii. • Congregation of turtles is more common where wintering areas are limited and therefore significant cix, cx, cxi, cxii. • SWHMiSTcxlix Index #28 provides development effects and mitigation measures for turtle wintering habitat.	**No;** The stormwater outlet channel and the section of Mimico Creek within the Outlet Study Area does not contain suitable substrate to be considered suitable overwintering habitat.	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
			• Natural Heritage Information Center (NHIC)			
Reptile Hibernaculum **<u>Rationale:</u>** Generally sites are the only known sites in the area. Sites with the highest number of individuals are most significant.	**<u>Snakes:</u>** Eastern Gartersnake Northern Watersnake Northern Red-bellied Snake Northern Brownsnake Smooth Green Snake Northern Ring-necked Snake **<u>Special Concern:</u>** Milksnake Eastern Ribbonsnake **<u>Lizard:</u>** **<u>Special Concern</u>** (Southern Shield population)**:** Five-lined Skink	For all snakes, habitat may be found in any ecosite other than very wet ones. Talus, Rock Barren, Crevice, Cave, and Alvar sites may be directly related to these habitats. Observations or congregations of snakes on sunny warm days in the spring or fall is a good indicator. For Five-lined Skink, ELC Community Series of FOD and FOM and Ecosites: FOC1 FOC3	• For snakes, hibernation takes place in sites located below frost lines in burrows, rock crevices and other natural or naturalized locations. The existence of features that go below frost line; such as rock piles or slopes, old stone fences, and abandoned crumbling foundations assist in identifying candidate SWH. • Areas of broken and fissured rock are particularly valuable since they provide access to subterranean sites below the frost line xliv, l, li, lii, cxii. • Wetlands can also be important over-wintering habitat in conifer or shrub swamps and swales, poor fens, or depressions in bedrock terrain with sparse trees or shrubs with sphagnum moss or sedge hummock ground cover. • Five-lined skink prefer mixed forests with rock outcrop openings providing cover rock overlaying granite bedrock with fissures . <u>Information Sources:</u> • In spring, local residents or landowners may have observed the emergence of snakes on their property (e.g. old dug wells). • Reports and other information available from Conservation Authorities. • Field Naturalists clubs • University herpetologists • Natural Heritage Information Center (NHIC) • OMNRF ecologist or biologist may be aware of locations of wintering skinks	Studies confirming: • Presence of snake hibernacula used by a minimum of five individuals of a snake sp. or; individuals of two or more snake spp. • Congregations of a minimum of five individuals of a snake sp. or; individuals of two or more snake spp. near potential hibernacula (e.g. foundation or rocky slope) on sunny warm days in Spring (Apr/May) and Fall (Sept/Oct)Ⓔ • <u>Note:</u> If there are Special Concern Species present, then site is SWH • <u>Note:</u> Sites for hibernation possess specific habitat parameters (e.g. temperature, humidity, etc.) and consequently are used annually, often by many of the same individuals of a local population (i.e. strong hibernation site fidelity). Other critical life processes (e.g. mating) often take place in close proximity to hibernacula. The feature in which the hibernacula is located plus a 30 m radius area is the SWHⒺ • SWHMiSTcxlix Index #13 provides development effects and mitigation measures for snake hibernacula. • Presence of any active hibernaculum for skink is significant. • SWHMiSTcxlix Index #37 provides development effects and mitigation measures for five-lined skink wintering habitat.	**No;** Suitable hibernaculum sites were not observed within the Outlet Study Area.	No further action required.
Colonially - Nesting Bird	Cliff Swallow Northern Rough-winged Swallow	Eroding banks, sandy hills, borrow	• Any site or areas with exposed	Studies confirming: • Presence of 1 or more nesting sites with	**No;**	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
Breeding Habitat (Bank and Cliff) **<u>Rationale:</u>** Historical use and number of nests in a colony make this habitat significant. An identified colony can be very important to local populations. All swallow population are declining in Ontario.	(this species is not colonial but can be found in Cliff Swallow colonies)	pits, steep slopes, and sand piles. Cliff faces, bridge abutments, silos, barns. Habitat found in the following ecosites: CUM1 CUT1 CUS1 BLO1 BLS1 BLT1 CLO1 CLS1 CLT1	soil banks, undisturbed or naturally eroding that is not a licensed/permitted aggregate area. • Does not include man-made structures (bridges or buildings) or recently (2 years) disturbed soil areas, such as berms, embankments, soil or aggregate stockpiles. • Does not include a licensed/permitted Mineral Aggregate Operation. <u>Information Sources</u> • Reports and other information available from Conservation Authorities. • Ontario Breeding Bird Atlas • Bird Studies Canada; *NatureCounts* http://www.birdscanada.org/birdmon/ • Field Naturalist Clubs.	8or more cliff swallow pairs and/or rough-winged swallow pairs during the breeding season. • A colony identified as SWH will include a 50m radius habitat area from the peripheral nests • Field surveys to observe and count swallow nests are to be completed during the breeding season. Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiSTIndex #4 provides development effects and mitigation measures	No suitable bank or cliff nesting habitat is present within the Outlet Study Area. No colonially nesting bird species were identified, however, breeding bird surveys were not completed.	
Colonially - Nesting Bird Breeding Habitat (Tree/Shrubs) **<u>Rationale:</u>** Large colonies are important to local bird population, typically sites are only known colony in area and are used annually.	Great Blue Heron Black-crowned Night-Heron Great Egret Green Heron	SWM2 SWM3 SWM5 SWM6 SWD1 SWD2 SWD3 SWD4 SWD5 SWD6 SWD7 FET1	• Nests in live or dead standing trees in wetlands, lakes, islands, and peninsulas. Shrubs and occasionally emergent vegetation may also be used. • Most nests in trees are 11 to 15 m from ground, near the top of the tree. <u>Information Sources</u> • Ontario Breeding Bird Atlas, colonial nest records. • Ontario Heronry Inventory 1991 available from Bird Studies Canada or NHIC (OMNRF). • Natural Heritage Information Center (NHIC) Mixed Wader Nesting Colony • Aerial photographs can help identify large heronries. • Reports and other information available from CAs. • MNRF District Offices. • Local naturalist clubs.	Studies confirming: • Presence of 5Ⓔ or more active nests of Great Blue Heron or other listed species. • The habitat extends from the edge of the colony and a minimum 300m radius or extent of the Forest Ecosite containing the colony or any island <15.0ha with a colony is the SWH cc, ccvii • Confirmation of active heronries are to be achieved through site visits conducted during the nesting season (April to August) or by evidence such as the presence of fresh guano, dead young and/or eggshells • SWHMiSTcxlix Index #5 provides development effects and mitigation measures.	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.
Colonially - Nesting Bird Breeding Habitat (Ground)	Herring Gull Great Black-backed Gull Little Gull Ring-billed Gull	Any rocky island or peninsula (natural or artificial) within a lake or large river	• Nesting colonies of gulls and terns are on islands or peninsulas associated with open water or in marshy areas.	Studies confirming: • Presence of > 25 active nests for Herring Gulls or Ring-billed Gulls, >5 active nests for Common Tern or >2 active nests for	**No;** Cultural meadow communities adjacent to the Mimico Creek may provide	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
Rationale; Colonies are important to local bird population, typically sites are only known colony in area and are used annually.	Common Tern Caspian Tern Brewer's Blackbird	(two-lined on a 1:50,000 NTS map). Close proximity to watercourses in open fields or pastures with scattered trees or shrubs (Brewer's Blackbird) MAM1 – 6; MAS1 – 3; CUM CUT CUS	• Brewers Blackbird colonies are found loosely on the ground in low bushes in close proximity to streams and irrigation ditches within farmlands. Information Sources • Ontario Breeding Bird Atlas, rare/colonial species records. • Canadian Wildlife Service • Reports and other information available from CAs. • Natural Heritage Information Center (NHIC) Colonial Waterbird Nesting Area • MNRF District Offices. • Field Naturalist clubs.	Caspian Tern Ⓔ. • Presence of 5 or more pairs for Brewer's Blackbird Ⓔ. • Any active nesting colony of one or more Little Gull, and Great Black-backed Gull is significant Ⓔ. • The edge of the colony and a minimum 150m radius area of habitat, or the extent of the ELC ecosites containing the colony or any island <3.0ha with a colony is the SWH , • Studies would be done during May/June when actively nesting. Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects"ccxi • SWHMiSTcxlix Index #6 provides development effects and mitigation measures.	suitable habitat for Brewer's Blackbird. Brewer's Blackbird was not identified within the Outlet Study Area during the background review. No colonially nesting indicator bird species were observed; however, breeding bird surveys were not completed.	
Migratory Butterfly Stopover Areas **Rationale:** Butterfly stopover areas are extremely rare habitats and are biologically important for butterfly species that migrate south for the winter.	Painted Lady Red Admiral Special Concern Monarch	Combination of ELC Community Series; need to have present one Community Series from each land class: Field: CUM CUT CUS Forest: FOC FOD FOM CUP Anecdotally, a candidate site for butterfly stopover will have a history of butterflies being observed.	A butterfly stopover area will be a minimum of 10 ha in size with a combination of field and forest habitat present, and will be located within 5 km of Lake Ontario cxlix. • The habitat is typically a combination of field and forest, and provides the butterflies with a location to rest prior to their long migration south xxxii, xxxiii, xxxiv, xxxv, xxxvi. • The habitat should not be disturbed, fields/meadows with an abundance of preferred nectar plants and woodland edge providing shelter are requirements for this habitat cxlviii, cxlix. • Staging areas usually provide protection from the elements and are often spits of land or areas with the shortest distance to cross the Great Lakes xxxvii, xxxviii, xxxix, xl, xli. Information Sources • OMNRF (NHIC) • Agriculture Canada in Ottawa may have list of butterfly experts. • Field Naturalist Clubs • Toronto Entomologists	Studies confirm: • The presence of Monarch Use Days (MUD) during fall migration (Aug/Oct). MUD is based on the number of days a site is used by Monarchs, multiplied by the number of individuals using the site. Numbers of butterflies can range from 100-500/day, significant variation can occur between years and multiple years of sampling should occur xl, xlii. • Observational studies are to be completed and need to be done frequently during the migration period to estimate MUD. • MUD of >5000 **or** >3000 with the presence of Painted Ladies or Red Admiral's is to be considered significant. Ⓔ • SWHMiST Index #16 provides development effects and mitigation measures.	**No;** The Outlet Study Area is more than 5km away from Lake Ontario.	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
			Association • Conservation Authorities			
Landbird Migratory Stopover Areas **<u>Rationale:</u>** Sites with a high diversity of species as well as high numbers are most significant.	All migratory songbirds. Canadian Wildlife Service Ontario website: http://www.ec.gc.ca/nature/default.asp?lang=En&n=421B7A9D-1 All migrant raptors species: Ontario Ministry of Natural Resources: Fish and Wildlife Conservation Act, 1997. Schedule 7: Specially Protected Birds (Raptors)	All Ecosites associated with these ELC Community Series; FOC FOM FOD SWC SWM SWD	Woodlots need to be >10 haⒺ in size and within 5 km iv, v, vi, vii, viii, ix, x, xi, xii, xiii, xiv, xv of Lake Ontario. • If multiple woodlands are located along the shoreline those Woodlands <2km from Lake Ontario are more significant • Sites have a variety of habitats; forest, grassland and wetland complexes. • The largest sites are more significant • Woodlots and forest fragments are important habitats to migrating birds, these features located along the shore and located within 5km of Lake Ontario are Candidate SWH. <u>Information Sources</u> • Bird Studies Canada • Ontario Nature • Local birders and naturalist club • Ontario Important Bird Areas (IBA) Program	Studies confirm: • Use of the habitat by >200 birds/day and with >35 spp with at least 10 bird spp. recorded on at least 5 different survey datesⒺ. This abundance and diversity of migrant bird species is considered above average and significant. • Studies should be completed during spring (Apr/May) and fall (Aug/Oct) migration using standardized assessment techniques. Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiST Index #9 provides development effects and mitigation measures.	**No;** The Outlet Study Area is more than 5km away from Lake Ontario.	No further action required.
Deer Yarding Areas **<u>Rationale:</u>** Winter habitat for deer is considered to be the main limiting factor for northern deer populations. In winter, deer congregate in “yards” to survive severe winter conditions. Deer yards typically have a long history of annual use by deer; yards typically represent 10-15% of an areas summer range.	White-tailed Deer	Note: OMNRF to determine this habitat. ELC Community Series providing a thermal cover component for a deer yard would include; FOM, FOC, SWM and SWC. Or these ELC Ecosites; CUP2 CUP3 FOD3 CUT	• Deer yarding areas or winter concentration areas (yards) are areas deer move to in response to the onset of winter snow and cold. This is a behavioural response and deer will establish traditional use areas. The yard is composed of two areas referred to as Stratum I and Stratum II. Stratum II covers the entire winter yard area and is usually a mixed or deciduous forest with plenty of browse available for food. Agricultural lands can also be included in this area. Deer move to these areas in early winter and generally, when snow depths reach 20 cm, most of the deer will have moved here. If the snow is light and fluffy, deer may continue to use this area until 30 cm snow depth. In mild winters, deer may remain in the Stratum II area the entire winter.	No Studies Required: • Snow depth and temperature are the greatest influence on deer use of winter yards. Snow depths > 40cm for more than 60 days in a typically winter are minimum criteria for a deer yard to be considered as SWH. lvi, lvii, lviii, lix, lx, Ⓔ • Deer Yards are mapped by OMNRF District offices. Locations of Core or Stratum 1 and Stratum 2 Deer yards considered significant by OMNRF will be available at local MNRF offices or via Land Information Ontario (LIO). • Field investigations that record deer tracks in winter are done to confirm use (best done from an aircraft). Preferably, this is done over a series of winters to establish the boundary of the Stratum I and Stratum II yard in an "average" winter. MNRF will complete these field investigations. cxcv	**No;** Deer yarding areas were not identified by the MNRF.	No further action required.

Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Candidate Habitat Present/ Confirmed Habitat Found Within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
			• The Core of a deer yard (Stratum I) is located within the Stratum II area and is critical for deer survival in areas where winters become severe. It is primarily composed of coniferous trees (pine, hemlock, cedar, spruce) with a canopy cover of more than 60%cxciv. • OMNRF determines deer yards following methods outlined in "Selected Wildlife and Habitat Features: Inventory Manual" cxcv • Woodlots with high densities of deer due to artificial feeding are not significantⒺ.	• If a SWH is determined for Deer Wintering Area or if a proposed development is within Stratum II yarding area then Movement Corridors are to be considered as outlined in Table 1.4.1 of this Schedule. • SWHMiSTcxlix Index #2 provides development effects and mitigation measures.		
Deer Winter Congregation Areas **<u>Rationale:</u>** Deer movement during winter in the southern areas of Ecoregion 6E are not constrained by snow depth, however deer will annually congregate in large numbers in suitable woodlands to reduce or avoid the impacts of winter conditions cxlviii.	White-tailed Deer	All Forested Ecosites with these ELC Community Series; FOC FOM FOD SWC SWM SWD Conifer plantations much smaller than 50 ha may also be used.	• Woodlots will typically be >100 ha in sizeⒺ. Woodlots <100ha may be considered as significant based on MNRF studies or assessment. • Deer movement during winter in the southern areas of Ecoregion 6E are not constrained by snow depth, however deer will annually congregate in large numbers in suitable woodlands. • If deer are constrained by snow depth refer to the Deer Yarding Area habitat within Table 1.1 of this Schedule. • Large woodlots > 100ha and up to 1500 ha are known to be used annually by densities of deer that range from 0.1-1.5 deer/ha. • Woodlots with high densities of deer due to artificial feeding are not significantⒺ. <u>Information Sources</u> • MNRF District Offices. • LIO/NRVIS	Studies confirm: • Deer management is an MNRF responsibility, deer winter congregation areas considered significant will be mapped by MNRF. • Use of the woodlot by white-tailed deer will be determined by MNRF, all woodlots exceeding the area criteria are significant, unless determined not to be significant by MNRF Ⓔ • Studies should be completed during winter (Jan/Feb) when >20cm of snow is on the ground using aerial survey techniques, ground or road surveys. or a pellet count deer density survey. • If a SWH is determined for Deer Wintering Area or if a proposed development is within Stratum II yarding area then Movement Corridors are to be considered as outlined in Table 1.4.1 of this Schedule. • SWHMiST Index #2 provides development effects and mitigation measures.	**No;** Deer winter congregation areas were not identified by the MNRF.	No further action required.

Table 1.2.1 Rare Vegetation Communities.

Rare Vegetation Community	CANDIDATE SWH			CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/Recommendations
	ELC Ecosite Code	Habitat Description	Detailed Information and Sources	Defining Criteria		
Cliffs and Talus Slopes **Rationale:** Cliffs and Talus Slopes are extremely rare habitats in Ontario.	Any ELC Ecosite within Community Series: TAO TAS TAT CLO CLS CLT	A Cliff is vertical to near vertical bedrock >3m in height. A Talus Slope is rock rubble at the base of a cliff made-up of coarse rocky debris.	Most cliff and talus slopes occur along the Niagara Escarpment. <u>Information Sources</u> • The Niagara Escarpment Commission has detailed information on location of these habitats. • OMNRF District • Natural Heritage Information Center (NHIC) has location information available on their website • Field Naturalist clubs • Conservation Authorities	• Confirm any ELC Vegetation Type for Cliffs or Talus Slopes • SWHMiSTIndex #21 provides development effects and mitigation measures.	**No;** No cliff or talus communities were identified during ELC surveys.	No further action required.
Sand Barren **<u>Rationale:</u>** Sand barrens are rare in Ontario and support rare species. Most Sand Barrens have been lost due to cottage development and forestry	ELC Ecosites: SBO1 SBS1 SBT1 Vegetation cover varies from patchy and barren to continuous meadow (SBO1), thicket-like (SBS1), or more closed and treed (SBT1). Tree cover always < 60%.	Sand Barrens typically are exposed sand, generally sparsely vegetated and caused by lack of moisture, periodic fires and erosion. Usually located within other types of natural habitat such as forest or savannah. Vegetation can vary from patchy and barren to tree covered, but less than 60%.	A sand barren area >0.5ha in sizeⒺ. <u>Information Sources</u> • OMNRF Districts. • Natural Heritage Information Center (NHIC) has location information available on their website. • Field Naturalist clubs • Conservation Authorities	• Confirm any ELC Vegetation Type for Sand Barrens • Site must not be dominated by exotic or introduced species (<50% vegetative cover are exotic sp.)Ⓔ. • SWHMiSTIndex #20 provides development effects and mitigation measures.	**No;** No sand barren communities were identified during ELC surveys.	No further action required.
Alvar **Rationale:** Alvars are extremely rare habitats in Ecoregion 6E. Most alvars in Ontario are in Ecoregions 6E and 7E. Alvars in 6E are small and highly localized just north of the Palaeozoic-Precambrian contact.	ALO1 ALS1 ALT1 FOC1 FOC2 CUM2 CUS2 CUT2-1 CUW2 **Five Alvar Indicator Species:** 1) *Carex crawei*	An alvar is typically a level, mostly unfractured calcareous bedrock feature with a mosaic of rock pavements and bedrock overlain by a thin veneer of soil. The hydrology of alvars is complex, with alternating periods of inundation and drought. Vegetation cover	An Alvar site > 0.5 ha in size lxxv. <u>Information Sources</u> • Alvars of Ontario (2000), Federation of Ontario Naturalists. • Ontario Nature – Conserving Great Lakes Alvars. • Natural Heritage Information Center (NHIC) has location information	• Field studies that identify four of the fiveⒺ **Alvar Indicator Species** at a Candidate Alvar site is Significant. • Site must not be dominated by exotic or introduced species (<50% vegetative cover are exotic sp.). • The alvar must be in excellent condition and fit in with surrounding landscape with few conflicting land uses lxxv • SWHMiSTcxlix Index #17 provides	**No;** A cultural meadow (CUM) community is present within the Outlet Study Area. Indicator species were not observed during field investigations.	No further action required.

Rare Vegetation Community	CANDIDATE SWH			CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/Recommendations
	ELC Ecosite Code	Habitat Description	Detailed Information and Sources	Defining Criteria		
	2) *Panicum philadelphicum* 3) *Eleocharis compressa* 4) *Scutellaria parvula* 5) *Trichostema brachiatum* These indicator species are very specific to Alvars within Ecoregion 6EⒺcxlix	varies from sparse lichen-moss associations to grasslands and shrublands and comprising a number of characteristic or indicator plants. Undisturbed alvars can be phyto- and zoogeographically diverse, supporting many uncommon or are relict plant and animal species. Vegetation cover varies from patchy to barren with a less than 60% tree cover lxxviii.	available on their website • OMNRF Districts • Feld Naturalist clubs. • Conservation Authorities.	development effects and mitigation measures.		
Old Growth Forest **Rationale:** Due to historic logging practices, extensive old growth forest is rare in the Ecoregion. Interior habitat provided by old growth forests is required by many wildlife species.	Forest Community Series: FOD FOC FOM SWD SWC SWM	Old Growth forests are characterized by heavy mortality or turnover of over-storey trees resulting in a mosaic of gaps that encourage development of a multi-layered canopy and an abundance of snags and downed woody debris.	Woodland areas 30 ha or greater in size or with at least 10 ha interior habitat assuming 100 m buffer at edge of forest Ⓔ. <u>Information Sources</u> • OMNRF Forest Resource Inventory mapping • OMNRF Districts. • Field Naturalist clubs • Conservation Authorities • Sustainable Forestry Licence (SFL) companies will possibly know locations through field operations. • Municipal forestry departments	Field Studies will determine: • If dominant trees species of the are >140 years old, then the area containing these trees is Significant Wildlife Habitat • The forested area containing the old growth characteristics will have experienced no recognizable forestry activities (cut stumps will not be present) • The area of forest ecosites combined or an eco-element within an ecosite that contains the old growth characteristics is the SWH. • Determine ELC vegetation types for the forest area containing the old growth characteristics lxxviii • SWHMiSTcxlix Index #23 provides development effects and mitigation measures.	**No;** Deciduous forest (FOD) communities do not meet the criteria to be considered candidate habitat.	No further action required.
Savannah **<u>Rationale:</u>** Savannahs are extremely rare habitats in Ontario.	TPS1 TPS2 TPW1 TPW2 CUS2	A Savannah is a tallgrass prairie habitat that has tree cover between 25 – 60%.lxxix, lxxx, lxxxi, lxxxii, lxxxiii	No minimum size to site Ⓔ Site must be restored or a natural site. Remnant sites such as railway right of ways are not considered to be SWH. <u>Information Sources</u> • Natural Heritage	Field studies confirm one or more of the Savannah indicator species listed in cxlix Appendix N should be present Ⓔ. Note: Savannah plant spp. list from Ecoregion 6E should be used cxlviii. • Area of the ELC Ecosite is the SWH. • Site must not be dominated by exotic or introduced species (<50% vegetative cover	**No;** No savannah communities were identified during ELC surveys.	No further action required.

Rare Vegetation Community	CANDIDATE SWH			CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/Recommendations
	ELC Ecosite Code	Habitat Description	Detailed Information and Sources	Defining Criteria		
			Information Center (NHIC) has location information available on their website • OMNRF Districts • Feld Naturalist clubs. • Conservation Authorities.	are exotic sp.). • SWHMiSTIndex #18 provides development effects and mitigation measures.		
Tallgrass Prairie **<u>Rationale:</u>** Tallgrass Prairies are extremely rare habitats in Ontario.	TPO1 TPO2	A Tallgrass Prairie has ground cover dominated by prairie grasses. An open Tallgrass Prairie habitat has < 25% tree cover. lxxix, lxxx, lxxxi, lxxxii, lxxxiii	No minimum size to site Ⓔ. Site must be restored or a natural site. Remnant sites such as railway right of ways are not considered to be SWH. <u>Information Sources</u> • Natural Heritage Information Center (NHIC) has location information available on their website • OMNRF Districts • Feld Naturalist clubs. • Conservation Authorities.	Field studies confirm one or more of the Prairie indicator species listed in cxlix Appendix N should be present Ⓔ. Note: Prairie plant spp. list from Ecoregion 6E should be used cxlviii • Area of the ELC Ecosite is the SWH. • Site must not be dominated by exotic or introduced species (<50% vegetative cover are exotic sp.). • SWHMiSTcxlix Index #19 provides development effects and mitigation measures.	**No;** Tallgrass Prairie Ecosites were not identified during ELC surveys.	No further action required.
Other Rare Vegetation Communities **<u>Rationale:</u>** Plant communities that often contain rare species which depend on the habitat for survival.	Provincially Rare S1, S2 and S3 vegetation communities are listed in Appendix M of the SWHTG cxlviii. Any ELC Ecosite Code that has a possible ELC Vegetation Type that is Provincially Rare is Candidate SWH.	Rare Vegetation Communities may include beaches, fens, forest, marsh, barrens, dunes and swamps.	ELC Ecosite codes that have the potential to be a rare ELC Vegetation Type as outlined in appendix M cxlviii The OMNRF/NHIC will have up to date listing for rare vegetation communities. <u>Information Sources</u> • Natural Heritage Information Center (NHIC) has location information available on their website • OMNRF Districts • Feld Naturalist clubs. • Conservation Authorities.	Field studies should confirm if an ELC Vegetation Type is a rare vegetation community based on listing within Appendix M of SWHTG cxlviii. • Area of the ELC Vegetation Type polygon is the SWH. • SWHMiST Index #37 provides development effects and mitigation measures.	**No;** No provincially rare (S1-S3) communities were identified within the Outlet Study Area	No further action required.

Table 1.2.2 Specialized Habitats of Wildlife considered SWH.

Specialized Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
Waterfowl Nesting Area **<u>Rationale:</u>** Important to local waterfowl populations, sites with greatest number of species and highest number of individuals are significant.	American Black Duck Northern Pintail Northern Shoveler Gadwall Blue-winged Teal Green-winged Teal Wood Duck Hooded Merganser Mallard	All upland habitats located adjacent to these wetland ELC Ecosites are Candidate SWH: MAS1 MAS2 MAS3 SAS1 SAM1 SAF1 MAM1 MAM2 MAM3 MAM4 MAM5 MAM6 SWT1 SWT2 SWD1 SWD2 SWD3 SWD4 **Note: includes adjacency to Provincially Significant Wetlands**	A waterfowl nesting area extends 120 m cxlix from a wetland (> 0.5 ha) or a wetland (>0.5ha) and any small wetlands (0.5ha) within 120m or a cluster of 3 or more small (<0.5 ha) wetlands within 120 m of each individual wetland where waterfowl nesting is known to occur cxlix. • Upland areas should be at least 120 m wide so that predators such as racoons, skunks, and foxes have difficulty finding nests. • Wood Ducks and Hooded Mergansers utilize large diameter trees (>40cm dbh) in woodlands for cavity nest sites. <u>Information Sources</u> • Ducks Unlimited staff may know the locations of particularly productive nesting sites. • OMNRF Wetland Evaluations for indication of significant waterfowl nesting habitat. • Reports and other information available from Conservation Authorities.	Studies confirmed: • Presence of 3 or more nesting pairs for listed species excluding MallardsⒺ, or; • Presence of 10 or more nesting pairs for listed species including MallardsⒺ. • Any active nesting site of an American Black Duck is considered significant. • Nesting studies should be completed during the spring breeding season (April - June). Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • A field study confirming waterfowl nesting habitat will determine the boundary of the waterfowl nesting habitat for the SWH, this may be greater or less than 120 m cxlviii from the wetland and will provide enough habitat for waterfowl to successfully nest. • SWHMiSTcxlix Index #25 provides development effects and mitigation measures.	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat **<u>Rationale:</u>** Nest sites are fairly uncommon in Eco-region 6E and are used annually by these species. Many suitable nesting locations may be lost due to increasing	Osprey **Special Concern** Bald Eagle	ELC Forest Community Series: FOD, FOM, FOC, SWD, SWM and SWC directly adjacent to riparian areas – rivers, lakes, ponds and wetlands	Nests are associated with lakes, ponds, rivers or wetlands along forested shorelines, islands, or on structures over water. • Osprey nests are usually at the top a tree whereas Bald Eagle nests are typically in super canopy trees in a notch within the tree’s canopy. • Nests located on man-made objects are not to be included as SWH (e.g. telephone poles and constructed nesting platforms). <u>Information Sources</u> • Natural Heritage Information Center (NHIC) compiles all known nesting sites for Bald Eagles in Ontario.	Studies confirm the use of these nests by: • One or more active Osprey or Bald Eagle nests in an area. • Some species have more than one nest in a given area and priority is given to the primary nest with alternate nests included within the area of the SWH. • For an Osprey, the active nest and a 300 m radius around the nest or the contiguous woodland stand is the SWH , maintaining undisturbed shorelines with large trees within this area is important . • For a Bald Eagle the active nest and a 400-800 m radius around the nest is the SWH. Area of the habitat from	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.

Specialized Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
shoreline development pressures and scarcity of habitat.			• MNRF values information (LIO/NRVIS) will list known nesting locations. Note: data from NRVIS is provided as a point and does not represent all the habitat. • Nature Counts, Ontario Nest Records Scheme data. • OMNRF Districts. • Check the Ontario Breeding Bird Atlas or Rare Breeding Birds in Ontario for species documented • Reports and other information available from Conservation Authorities. • Field Naturalists clubs	400-800m is dependent on site lines from the nest to the development and inclusion of perching and foraging habitat cvi • To be significant a site must be used annually. When found inactive, the site must be known to be inactive for > 3 years or suspected of not being used for >5 years before being considered not significant. ccvii • Observational studies to determine nest site use, perching sites and foraging areas need to be done from mid-March to mid-August. • Evaluation methods to follow "Bird and Bird Habitats: Guidelines for Wind Power Projects"ccxi • SWHMiSTcxlix Index #26 provides development effects and mitigation measures		
Woodland Raptor Nesting Habitat **<u>Rationale:</u>** Nests sites for these species are rarely identified; these area sensitive habitats and are often used annually by	Northern Goshawk Cooper's Hawk Sharp-shinned Hawk Red-shouldered Hawk Barred Owl Broad-winged Hawk	May be found in all forested ELC Ecosites. May also be found in SWC, SWM, SWD and CUP3	All natural or conifer plantation woodland/forest stands >30ha with >10ha of interior habitat lxxxviiii, lxxxix, xc, xci, xciii, xciv, xcv,xcvi, cxxxiii. Interior habitat determined with a 200m buffer cxlviii • Stick nests found in a variety of intermediate-aged to mature coniferous, deciduous or mixed forests within tops or crotches of trees. Species such as Coopers hawk nest along forest edges sometimes on peninsulas or small off-shore islands. • In disturbed sites, nests may be used again, or a new nest will be in close proximity to old nest. <u>Information Sources</u> • OMNRF Districts. • Check the Ontario Breeding Bird Atlas or Rare Breeding Birds in Ontario for species documented. • Check data from Bird Studies Canada. • Reports and other information available from Conservation Authorities.	Studies confirm: • Presence of 1 or more active nests from species list is considered significant. • Red-shouldered Hawk and Northern Goshawk – A 400m radius around the nest or 28 ha area of habitat is the SWH. (the 28 ha habitat area would be applied where optimal habitat is irregularly shaped around the nest) • Barred Owl – A 200m radius around the nest is the SWH ccvii. • Broad-winged Hawk and Coopers Hawk – A 100m radius around the nest is the SWH ccvii. • Sharp-Shinned Hawk – A 50m radius around the nest is the SWH ccvii. • Conduct field investigations from mid-March to end of May. The use of call broadcasts can help in locating territorial (courting/nesting) raptors and facilitate the discovery of nests by narrowing down the search area. • SWHMiST cxlix Index #27 provides development effects and mitigation measures.	**No;** Forested communities within the Outlet Study Area do not meet the size requirement. No indicator species or active nests were observed within the Outlet Study Area.	No further action required.

Specialized Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
Turtle Nesting Areas **<u>Rationale:</u>** These habitats are rare and when identified will often be the only breeding site for local populations of turtles.	Midland Painted Turtle <u>Special Concern Species</u> Northern Map Turtle Snapping Turtle	Exposed mineral soil (sand or gravel) areas adjacent (<100m) cxlviii or within the following ELC Ecosites: MAS1 MAS2 MAS3 SAS1 SAM1 SAF1 BOO1	• Best nesting habitat for turtles are close to water and away from roads and sites less prone to loss of eggs by predation from skunks, raccoons or other animals. • For an area to function as a turtle-nesting area, it must provide sand and gravel that turtles are able to dig in and are located in open, sunny areas. Nesting areas on the sides of municipal or provincial road embankments and shoulders are not SWH. • Sand and gravel beaches adjacent to undisturbed shallow weedy areas of marshes, lakes, and rivers are most frequently used. <u>Information Sources</u> • Use Ontario Soil Survey reports and maps to help find suitable substrate for nesting turtles (well-drained sands and fine gravels). • Check the Ontario Herpetofaunal Summary Atlas records or other similar atlases for uncommon turtles; location information may help to find potential nesting habitat for them. • Natural Heritage Information Center (NHIC) • Field Naturalist clubs	Studies confirm: • Presence of 5 or more nesting Midland Painted Turtles Ⓔ • One or more Northern Map Turtle or Snapping Turtle nesting is a SWH Ⓔ. • The area or collection of sites within an area of exposed mineral soils where the turtles nest, plus a radius of 30-100m around the nesting area dependant on slope, riparian vegetation and adjacent land use is the SWH cxlviii • Travel routes from wetland to nesting area are to be considered within the SWH as part of the 30-100m area of habitat. cxlix • Field investigations should be conducted in prime nesting season typically late spring to early summer. Observational studies observing the turtles nesting is a recommended method. • SWHMiST cxlix Index #28 provides development effects and mitigation measures for turtle nesting habitat.	**No;** No shallow marsh, bog, fen or shallow aquatic communities were identified within the Outlet Study Area. No evidence of turtle nesting was observed within the Outlet Study Area.	No further action required.
Seeps and Springs **<u>Rationale:</u>** Seeps/Springs are typical of headwater areas and are often at the source of coldwater streams.	Wild Turkey Ruffed Grouse Spruce Grouse White-tailed Deer Salamander spp.	Seeps/Springs are areas where ground water comes to the surface. Often they are found within headwater areas within forested habitats. Any forested Ecosite within the headwater areas of a stream could have seeps/springs.	Any forested area (with <25% meadow/field/pasture) within the headwaters of a stream or river system cxvii, cxlix. • Seeps and springs are important feeding and drinking areas especially in the winter will typically support a variety of plant and animal species cxix, cxx, cxxi, cxxii, cxiii, cxiv . <u>Information Sources</u> • Topographical Map. • Thermography. • Hydrological surveys conducted by Conservation Authorities and MOE. • Field Naturalists clubs and landowners.	Field Studies confirm: • Presence of a site with 2 or more Ⓔ seeps/springs should be considered SWH. • The area of an ELC forest ecosite or an Ecoelement within ecosite containing the seeps/springs is the SWH. The protection of the recharge area considering the slope, vegetation, height of trees and groundwater condition need to be considered in delineation the habitat. • SWHMiST Index #30 provides development effects and mitigation measures	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.

Specialized Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
			• Municipalities and Conservation Authorities may have drainage maps and headwater areas mapped.			
Amphibian Breeding Habitat (Woodland). **<u>Rationale:</u>** These habitats are extremely important to amphibian biodiversity within a landscape and often represent the only breeding habitat for local amphibian populations	Eastern Newt Blue-spotted Salamander Spotted Salamander Gray Treefrog Spring Peeper Western Chorus Frog Wood Frog	All Ecosites associated with these ELC Community Series; FOC FOM FOD SWC SWM SWD Breeding pools within the woodland or the shortest distance from forest habitat are more significant because they are more likely to be used due to reduced risk to migrating amphibians	• Presence of a wetland, pond or woodland pool (including vernal pools) >500m2 (about 25m diameter) within or adjacent (within 120m) to a woodland (no minimum size). clxxxii, lxiii, lxv, lxvi, lxvii, lxviii, lxix, lxx Some small wetlands may not be mapped and may be important breeding pools for amphibians. • Woodlands with permanent ponds or those containing water in most years until mid-July are more likely to be used as breeding habitat <u>Information Sources</u> • Ontario Herpetofaunal Summary Atlas (or other similar atlases) for records • Local landowners may also provide assistance as they may hear spring-time choruses of amphibians on their property. • OMNRF District. • OMNRF wetland evaluations • Field Naturalist clubs • Canadian Wildlife Service Amphibian Road Call Survey • Ontario Vernal Pool Association: http://www.ontariovernalpools.org	Studies confirm: • Presence of breeding population of 1 or more of the listed newt/salamander species or 2 or more of the listed frog species with at least 20 individuals (adults or eggs masses) or 2 or more of the listed frog species with Call Level Codes of 3Ⓔ. • A combination of observational study and call count surveys will be required during the spring (March-June) when amphibians are concentrated around suitable breeding habitat within or near the woodland/wetlands. • The habitat is the wetland area plus a 230m radius of woodland area lxiii, lxv, lxvi, lxvii, lxviii, lxix, lxx, lxxi. If a wetland area is adjacent to a woodland, a travel corridor connecting the wetland to the woodland is to be included in the habitat. • SWHMiST Index #14 provides development effects and mitigation measures.	**No;** Forested communities are present within the Outlet Study Area. No wetlands, ponds or woodland pools identified within or adjacent to the Outlet Study Area.	No further action required.
Amphibian Breeding Habitat (Wetlands) Rationale; Wetlands supporting breeding for these amphibian species are extremely important and fairly rare within Central Ontario landscapes.	Eastern Newt American Toad Spotted Salamander Four-toed Salamander Blue-spotted Salamander Gray Treefrog Western Chorus Frog Northern Leopard Frog Pickerel Frog Green Frog Mink Frog Bullfrog	ELC Community Classes SW, MA, FE, BO, OA and SA. Typically these wetland ecosites will be isolated (>120m) from woodland ecosites, however larger wetlands containing predominantly aquatic species (e.g. Bull Frog) may be adjacent to woodlands.	• Wetlands>500m2 (about 25m diameter) ccvii), supporting high species diversity are significant; some small or ephemeral habitats may not be identified on MNRF mapping and could be important amphibian breeding habitats clxxxii. • Presence of shrubs and logs increase significance of pond for some amphibian species because of available structure for calling, foraging, escape and concealment from predators. • Bullfrogs require permanent water bodies with abundant emergent vegetation.	Studies confirm: • Presence of breeding population of 1 or more of the listed newt/salamander species or 2 or more of the listed frog/toad species with at least 20 individuals (adults or eggs masses) or 2 or more of the listed frog/toad species with Call Level Codes of 3Ⓔ. **or;** Wetland with confirmed breeding Bullfrogs are significantⒺ. • The ELC ecosite wetland area and the shoreline are the SWH. • A combination of observational study and call count surveys will be required during the spring (March-June) when amphibians are concentrated around suitable	**No;** No wetland communities present within the Outlet Study Area.	No further action required.

Specialized Wildlife Habitat	Wildlife Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite Codes	Habitat Criteria and Information Sources	Defining Criteria		
			Information Sources • Ontario Herpetofaunal Summary Atlas (or other similar atlases) • Canadian Wildlife Service Amphibian Road Surveys and Backyard Amphibian Call Count. • OMNRF Districts and wetland evaluations • Reports and other information available from Conservation Authorities.	breeding habitat within or near the wetlands. • If a SWH is determined for Amphibian Breeding Habitat (Wetlands) then Movement Corridors are to be considered as outlined in Table 1.4.1 of this Schedule. • SWHMiST Index #15 provides development effects and mitigation measures.		
Woodland Area-Sensitive Bird Breeding Habitat **Rationale:** Large, natural blocks of mature woodland habitat within the settled areas of Southern Ontario are important habitats for area sensitive interior forest song birds.	Yellow-bellied Sapsucker Red-breasted Nuthatch Veery Blue-headed Vireo Northern Parula Black-throated Green Warbler Blackburnian Warbler Black-throated Blue Warbler Ovenbird Scarlet Tanager Winter Wren **Special Concern:** Cerulean Warbler Canada Warbler	All Ecosites associated with these ELC Community Series; FOC FOM FOD SWC SWM SWD	• Habitats where interior forest breeding birds are breeding, typically large mature (>60 yrs. old) forest stands or woodlots >30 ha. cv, cxxxi, cxxxii, cxxxiii, cxxxiv, cxxxv, cxxxvi, cxxxvii, cxxxviii, cxxxix, cxl, cxli, cxlii, cxliii, cxliv, cxlv, cxlvi, cl, cli, clii, cliii, cliv, clv, clvi, clvii, clviii, clix, • Interior forest habitat is at least 200 m from forest edge habitat. clxiv Information Sources • Local bird clubs. • Canadian Wildlife Service (CWS) for the location of forest bird monitoring. • Bird Studies Canada conducted a 3-year study of 287 woodlands to determine the effects of forest fragmentation on forest birds and to determine what forests were of greatest value to interior species • Reports and other information available from Conservation Authorities.	Studies confirm: • Presence of nesting or breeding pairs of 3 or more of the listed wildlife species. Ⓔ • Note: any site with breeding Cerulean Warblers or Canada Warblers is to be considered SWH.Ⓔ • Conduct field investigations in spring and early summer when birds are singing and defending their territories. • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiST Index #34 provides development effects and mitigation measures.	**No;** Deciduous forest (FOD) community within the Outlet Study Area lacks interior forest habitat 200 m from the edge of the community.	No further action required.

Table 1.3. Habitats of Species of Conservation Concern considered SWH.

Wildlife	Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite	Habitat Criteria and Information Sources	Defining Criteria		
Marsh Breeding Bird Habitat **<u>Rationale:</u>** Wetlands for these bird species are typically productive and fairly rare in Southern Ontario landscapes.	American Bittern Virginia Rail Sora Common Moorhen American Coot Pied-billed Grebe Marsh Wren Sedge Wren Common Loon Sandhill Crane Green Heron Trumpeter Swan **Special Concern:** Black Tern Yellow Rail	MAM1 MAM2 MAM3 MAM4 MAM5 MAM6 SAS1 SAM1 SAF1 FEO1 BOO1 For Green Heron: All SW, MA and CUM1 sites.	• Nesting occurs in wetlands. • All wetland habitat is to be considered as long as there is shallow water with emergent aquatic vegetation present. • For Green Heron, habitat is at the edge of water such as sluggish streams, ponds and marshes sheltered by shrubs and trees. Less frequently, it may be found in upland shrubs or forest a considerable distance from water. <u>Information Sources</u> • OMNRF District and wetland evaluations. • Field Naturalist clubs • Natural Heritage Information Center (NHIC) Records. • Reports and other information available from Conservation Authorities. • Ontario Breeding Bird Atlas.	Studies confirm: • Presence of 5 or more nesting pairs of Sedge Wren or Marsh Wren or 1 pair of Sandhill Cranes; **or** breeding by any combination of 5 or more of the listed species Ⓔ. • Note: any wetland with breeding of 1 or more Black Terns, Trumpeter Swan, Green Heron or Yellow Rail is SWH Ⓔ. • Area of the ELC ecosite is the SWH. • Breeding surveys should be done in May/June when these species are actively nesting in wetland habitats. • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiST Index #35 provides development effects and mitigation measures	**Candidate;** Cultural meadow communities adjacent to the Mimico Creek may provide suitable habitat for Green Heron. No indicator bird species were observed; however, breeding bird surveys were not completed.	The suitable cultural meadow within the Outlet Study Area is located on the opposite bank of the outlet channels confluence with Mimico Creek and is not expected to be impacted by the proposed works. No further action required.
Open Country Bird Breeding Habitat **<u>Rationale:</u>** This wildlife habitat is declining throughout Ontario and North America. Species such as the Upland Sandpiper have declined significantly the past 40 years based on CWS (2004) trend records.	Upland Sandpiper Grasshopper Sparrow Vesper Sparrow Northern Harrier Savannah Sparrow **Special Concern** Short-eared Owl	CUM1 CUM2	• Large grassland areas (includes natural and cultural fields and meadows) >30 ha clxiv, clxv, clxvi, clxvii, clxviii, clxix. • Grasslands not Class 1 or 2 agricultural lands, and not being actively used for farming (i.e. no row cropping or intensive hay or livestock pasturing in the last 5 years) Ⓔ. • Grassland sites considered significant should have a history of longevity, either abandoned fields, mature hayfields and pasturelands that are at least 5 years or older. • The Indicator bird species are area sensitive requiring larger grassland areas than the common grassland species. <u>Information Sources</u> • Agricultural land classification maps, Ministry of Agriculture.	Field Studies confirm: • Presence of nesting or breeding of 2 or more of the listed species. Ⓔ • A field with 1 or more breeding Short-eared Owls is to be considered SWH. • The area of SWH is the contiguous ELC ecosite field areas. • Conduct field investigations of the most likely areas in spring and early summer when birds are singing and defending their territories. • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiST Index #32 provides development effects and mitigation measures	**No;** Cultural meadow (CUM) communities present within the Outlet Study Area are less than 30 ha in size. No indicator bird species were observed; however, breeding bird surveys were not completed.	No further action required.

Wildlife	Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite	Habitat Criteria and Information Sources	Defining Criteria		
			• Local bird clubs. • Ontario Breeding Bird Atlas • Reports and other information available from C0nservation Authorities.			
Shrub/Early Successional Bird Breeding Habitat **<u>Rationale:</u>** This wildlife habitat is declining throughout Ontario and North America. The Brown Thrasher has declined significantly over the past 40 years based on CWS (2004) trend records cxcix.	<u>Indicator Spp:</u> Brown Thrasher Clay-coloured Sparrow <u>Common Spp.</u> Field Sparrow Black-billed Cuckoo Eastern Towhee Willow Flycatcher **Special Concern:** Yellow-breasted Chat Golden-winged Warbler	CUT1 CUT2 CUS1 CUS2 CUW1 CUW2 Patches of shrub ecosites can be complexed into a larger habitat for some bird species	Large field areas succeeding to shrub and thicket habitats>10haclxiv in size. • Shrub land or early successional fields, not class 1 or 2 agricultural lands, not being actively used for farming (i.e. no row-cropping, haying or live-stock pasturing in the last 5 years) Ⓔ. • Shrub thicket habitats (>10 ha) are most likely to support and sustain a diversity of these species clxxiii. • Shrub and thicket habitat sites considered significant should have a history of longevity, either abandoned fields or pasturelands. <u>Information Sources</u> • Agricultural land classification maps, Ministry of Agriculture. • Local bird clubs. • Ontario Breeding Bird Atlas • Reports and other information available from Conservation Authorities.	Field Studies confirm: • Presence of nesting or breeding of 1 of the indicator species and at least 2 of the common species. Ⓔ • A habitat with breeding Yellow-breasted Chat or Golden-winged Warbler is to be considered as Significant Wildlife Habitat. Ⓔ • The area of the SWH is the contiguous ELC ecosite field/thicket area. • Conduct field investigations of the most likely areas in spring and early summer when birds are singing and defending their territories • Evaluation methods to follow “Bird and Bird Habitats: Guidelines for Wind Power Projects” • SWHMiST Index #33 provides development effects and mitigation measures.	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.
Terrestrial Crayfish **<u>Rationale:</u>** Terrestrial Crayfish are only found within SW Ontario in Canada and their habitats are very rare. ccii	Chimney or Digger Crayfish; (*Fallicambarus fodiens*) Devil Crayfish or Meadow Crayfish; (*Cambarus diogenes*)	MAM1 MAM2 MAM3 MAM4 MAM5 MAM6 MAS1 MAS2 MAS3 SWD SWT SWM CUM1 with inclusions of above meadow marsh or swamp ecosites can be used by	Wet meadow and edges of shallow marshes (no minimum size) should be surveyed for terrestrial crayfish. • Constructs burrows in marshes, mudflats, meadows, the ground can’t be too moist. Can often be found far from water. • Both species are a semi-terrestrial burrower which spends most of its life within burrows consisting of a network of tunnels. Usually the soil is not too moist so that the tunnel is well formed. <u>Information Sources</u> • Information sources from	Studies Confirm: • Presence of 1 or more individuals of species listed or their chimneys (burrows) in suitable meadow marsh, swamp or moist terrestrial sites • Area of ELC ecosite or an Ecoelement area of meadow marsh or swamp within the larger ecosite area is the SWH. • Surveys should be done April to August in temporary or permanent water. Note the presence of burrows or chimneys are often the only indicator of presence, observance or collection of individuals is very difficult cci • SWHMiST cxlix Index #36 provides development effects and mitigation measures.	**No;** Candidate Habitat not present within the Outlet Study Area.	No further action required.

Wildlife	Species	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat within the Outlet Study Area	Conclusions/ Recommendations
		ELC Ecosite	Habitat Criteria and Information Sources	Defining Criteria		
		terrestrial crayfish.	"Conservation Status of Freshwater Crayfishes" by Dr. Premek Hamr for the WWF and CNF March 1998			
Special Concern and Rare Wildlife Species **<u>Rationale:</u>** These species are quite rare or have experienced significant population declines in Ontario.	All Special Concern and Provincially Rare (S1-S3, SH) plant and animal species. Lists of these species are tracked by the Natural Heritage Information Centre.	All plant and animal element occurrences (EO) within a 1 or 10km grid. Older element occurrences were recorded prior to GPS being available, therefore location information may lack accuracy	When an element occurrence is identified within a 1 or 10 km grid for a Special Concern or provincially Rare species; linking candidate habitat on the site needs to be completed to ELC Ecosites lxxviii <u>Information Sources</u> • Natural Heritage Information Centre (NHIC) will have Special Concern and Provincially Rare (S1-S3, SH) species lists with element occurrences data. • NHIC Website "Get Information" : http://nhic.mnr.gov.on.ca • Ontario Breeding Bird Atlas • Expert advice should be sought as many of the rare spp. have little information available about their requirements.	Studies Confirm: • Assessment/inventory of the site for the identified special concern or rare species needs to be completed during the time of year when the species is present or easily identifiable. • The area of the habitat to the finest ELC scale that protects the habitat form and function is the SWH; this must be delineated through detailed field studies. The habitat needs be easily mapped and cover an important life stage component for a species e.g. specific nesting habitat or foraging habitat. • SWHMiST Index #37 provides development effects and mitigation measures.	**Candidate;** Candidate habitat is present for the following SOCC: Eastern Wood-pewee, Wood Thrush, Monarch and Snapping Turtle. See SAR Screening for additional details.	It is recommended that all vegetation clearing be completed outside of the breeding bird season (April 1st - August 31st) to avoid contravention of the *Migratory Birds Convention Act*. Should wildlife be encountered on site during construction a qualified ecologist should be contacted to determine the appropriate protocols for relocation.

Table 1.4 Animal Movement Corridors

Habitat	SPECIES	CANDIDATE SWH		CONFIRMED SWH	Confirmed Habitat Present within the Outlet Study Area	Conclusions/ Recommendations
		ELC Eco-sites	Habitat Criteria and Information Sources	Defining Criteria		
Amphibian Movement Corridors **<u>Rationale:</u>** Movement corridors for amphibians moving from their terrestrial habitat to breeding habitat can be extremely important for local populations.	Eastern Newt American Toad Spotted Salamander Four-toed Salamander Blue-spotted Salamander Gray Treefrog Western Chorus Frog Northern Leopard Frog Pickerel Frog Green Frog Mink Frog Bullfrog	Corridors may be found in all ecosites associated with water. • Corridors will be determined based on identifying the significant breeding habitat for these species in Table 1.1	Movement corridors between breeding habitat and summer habitat clxxiv, clxxv, clxxvi, clxxvii, clxxviii, clxxix, clxxx, clxxxi. Movement corridors must be determined when Amphibian breeding habitat is confirmed as SWH from Table 1.2.2 (**Amphibian Breeding Habitat –Wetland)** of this Schedule Ⓔ. <u>Information Sources</u> • MNRF District Office. • Natural Heritage Information Center (NHIC). • Reports and other information available from Conservation Authorities. • Field Naturalist Clubs.	• Field Studies must be conducted at the time of year when species are expected to be migrating or entering breeding sites. • Corridors should consist of native vegetation, with several layers of vegetation. • Corridors unbroken by roads, waterways or bodies, and undeveloped areas are most significant cxlix • Corridors should have at least 15m of vegetation on both sides of waterway cxlix or be up to 200m wide cxlix of woodland habitat and with gaps <20mcxlix . • Shorter corridors are more significant than longer corridors; however amphibians must be able to get to and from their summer and breeding habitat cxlix. • SWHMiST cxlix Index #40 provides development effects and mitigation measures	**No;** Neither candidate nor confirmed Amphibian Breeding Habitat – Wetland was identified within the Outlet Study Area; therefore, Amphibian Movement Corridors are not considered further.	No further action required.
Deer Movement Corridors **<u>Rationale:</u>** Corridors important for all species to be able to access seasonally important life-cycle habitats or to access new habitat for dispersing individuals by minimizing their vulnerability while travelling.	White-tailed Deer	Corridors may be found in all forested ecosites. A Project Proposal in Stratum II Deer Wintering Area has potential to contain corridors.	Movement corridor must be determined when **Deer Wintering Habitat** is confirmed as SWH from Table 1.1 of this schedule. Ⓔ • A deer wintering habitat identified by the OMNRF as SWH in Table 1.1 of this Schedule will have corridors that the deer use during fall migration and spring dispersion • Corridors typically follow riparian areas, woodlots, areas of physical geography (ravines, or ridges). <u>Information Sources</u> • MNRF District Office. • Natural Heritage Information Center (NHIC). • Reports and other information available from Conservation Authorities. • Field Naturalist Clubs.	• Studies must be conducted at the time of year when deer are migrating or moving to and from winter concentration areas. • Corridors that lead to a deer wintering habitat should be unbroken by roads and residential areas. • Corridors should be at least 200m wide with gaps < 20m and if following riparian area with at least 15m of vegetation on both sides of waterway. • Shorter corridors are more significant than longer corridors, cxlix. • SWHMiST cxlix Index #39 provides development effects and mitigation measures	**No;** Confirmed habitat was not identified – deer wintering habitat was not confirmed within the Outlet Study Area.	No further action required.

Table 1.5.1 Significant Wildlife Habitat Exceptions for Ecodistricts within EcoRegion 6E

EcoDistrict	Wildlife Habitat and Species	Candidate SWH			Confirmed SWH	Candidate Habitat within the Outlet Study Area	Conclusions/ Recommendations
		Ecosites	Habitat Description	Habitat Criteria and Information	Defining Criteria		
6E-14 **<u>Rationale:</u>** The Bruce Peninsula has an isolated and distinct population of black bears. Maintenance of large woodland tracts with mast-producing tree species is important for bears. clxxxvi, ccxvii	**Mast Producing Areas** Black Bear	All Forested habitat represented by ELC Community Series: FOM FOD	• Black bears require forested habitat that provides cover, winter hibernation sites, and mast-producing tree species. • Forested habitats need to be large enough to provide cover and protection for black bears.	Woodland ecosites >30ha with mast-producing tree species, either soft (cherry) or hard (oak and beech), <u>Information Sources</u> Important forest habitat for black bears may be identified by OMNRF.	All woodlands > 30ha with a 50%composition of these ELC VegetationⒺ Types are considered significant: FOM1-1 FOM2-1 FOM3-1 FOD1-1 FOD1-2 FOD2-1 FOD2-2 FOD2-3 FOD2-4 FOD4-1 FOD5-2 FOD5-3 FOD5-7 FOD6-5 SWHMiST cxlix Index #3 provides development effects and mitigation measures.	**No;** The Outlet Study Area is not within Eco-district 6E-14	No further action required.
6E- 17 **<u>Rationale:</u>** Sharp-tailed grouse only occur on Manitoulin Island in Eco-region 6E, Leks are an important habitat to maintain their population	**Lek** **Sharp-tailed Grouse**	CUM CUS CUT	• The lek or dancing ground consists of bare, grassy or sparse shrubland. There is often a hill or rise in topography. • Leks are typically a grassy field/meadow >15ha with adjacent shrublands and >30ha with adjacent deciduous woodland. Conifer trees within 500m are not tolerated.	Grasslands (field/meadow) are to be >15ha when adjacent to shrubland and >30ha when adjacent to deciduous woodland ccxix. • Grasslands are to be undisturbed with low intensities of agriculture (light grazing or late haying) • Leks will be used annually if not destroyed by cultivation or invasion by woody plants or tree planting <u>Information Sources</u> • OMNRF district office • Bird watching clubs • Local landowners • Ontario Breeding Bird Atlas	Studies confirming lek habitat are to be completed from late March to June. • Any site confirmed with sharp-tailed grouse courtship activities is considered significantⒺ • The field/meadow ELC ecosites plus a 200 m radius area with shrub or deciduous woodland is the lek habitatⒺ • SWHMiST Index #32 provides development effects and mitigation measures	**No;** The Outlet Study Area is not within Eco-district 6E-17	No further action required.

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Appendix C

Species at Risk Screening

Taxonomy	Species	ESA Status	SARA Status	COSEWIC Status	Preferred Habitat[1, 2]	Associated ELC Communities	Known Species Range[1, 2]	Source Identifying Species Record	1-BR-03
Birds	Bank Swallow *Riparia riparia*	THR	THR Schedule 1	THR	Bank Swallows nest in burrows in natural and human-made settings where there are vertical faces in silt and sand deposits. Many nests are on banks of rivers and lakes, but they are also found in active sand and gravel pits or former ones where the banks remain suitable. The birds breed in colonies ranging from several to a few thousand pairs. The Bank Swallow breeds in a wide variety of natural and artificial sites with vertical banks, including riverbanks, lake and ocean bluffs, aggregate pits, road cuts, and stock piles of soil. Sand-silt substrates are preferred for excavating nest burrows. Breeding sites tend to be somewhat ephemeral due to the dynamic nature of bank erosion. Breeding sites are often situated near open terrestrial habitat used for aerial foraging (e.g., grasslands, meadows, pastures, and agricultural cropland). Large wetlands are used as communal nocturnal roost sites during post-breeding, migration, and wintering periods.		The Bank Swallow is found all across southern Ontario, with sparser populations scattered across northern Ontario. The largest populations are found along the Lake Erie and Lake Ontario shorelines, and the Saugeen River (which flows into Lake Huron). In North America, it breeds widely across the northern two-thirds of the U.S., north to the treeline. It breeds in all Canadian provinces and territories, except perhaps Nunavut.	OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding bird surveys were not completed. **Habitat Observed - No** Suitable nesting habitat was not observed within the study area.
Birds	Barn Swallow *Hirundo rustica*	THR	THR Schedule 1	THR	Barn Swallows often live in close association with humans, building their cup-shaped mud nests almost exclusively on human-made structures such as open barns, under bridges, and in culverts. The species is attracted to open structures that include ledges where they can build their nests, which are often re-used from year to year. They prefer unpainted, rough-cut wood, since the mud does not adhere as well to smooth surfaces. Before European colonization, Barn Swallows nested mostly in caves, holes, crevices, and ledges in cliff faces. Following European settlement, they shifted largely to nesting in and on artificial structures, including barns and other outbuildings, garages, houses, bridges, and road culverts. Barn Swallows prefer various types of open habitats for foraging, including grassy fields, pastures, various kinds of agricultural crops, lake and river shorelines, cleared rights-of-way, cottage areas and farmyards, islands, wetlands, and subarctic tundra.	**TPO, CUM1, MAM, MAS, OAO, SAS1, SAM1, SAF1**; containing or adjacent structures that are suitable for nesting.	The Barn Swallow may be found throughout southern Ontario and can range as far north as Hudson Bay, wherever suitable locations for nests exist. The Barn Swallow has become closely associated with human rural settlements. It breeds across much of North America south of the treeline, south to central Mexico. In Canada, it is known to breed in all provinces and territories.	OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding bird surveys were not completed. **Habitat Observed - Candidate** Both bridges located along Derry Road East may provide suitable nesting habitat. Both structures are outside of the construction footprint and are not expected to be impacted by the proposed works.
Birds	Bobolink *Dolichonyx oryzivorus*	THR	THR Schedule 1	THR	Historically, Bobolinks lived in North American tallgrass prairie and other open meadows. With the clearing of native prairies, Bobolinks moved to living in hayfields. Bobolinks often build their small nests on the ground in dense grasses. Both parents usually tend to their young, sometimes with a third Bobolink helping. Most of this prairie was converted to agricultural land over a century ago, and at the same time the forests of eastern North America were cleared to hayfields and meadows that provided habitat for the birds. Since the conversion of the prairie to cropland and the clearing of the eastern forests, the Bobolink has nested in forage crops (e.g., hayfields and pastures dominated by a variety of species, such as clover, Timothy, Kentucky Bluegrass, and broadleaved plants). The Bobolink also occurs in various grassland habitats including wet prairie, graminoid peatlands, and abandoned fields dominated by tall grasses, remnants of uncultivated virgin prairie (tall-grass prairie), no-till cropland, small-grain fields, restored surface mining sites, and irrigated fields in arid regions. It is generally not abundant in short-grass prairie, Alfalfa fields, or in row crop monocultures (e.g., corn, soybean, wheat), although its use of Alfalfa may vary with region.	**TPO, TPS, CUM1** and **MAM2**.	The Bobolink breeds across North America. In Ontario, it is widely distributed throughout most of the province south of the boreal forest, although it may be found in the north where suitable habitat exists. The breeding range of the Bobolink in North America includes the southern part of all Canadian provinces from British Columbia to Newfoundland and Labrador and south to the northwestern, north-central and northeastern U.S.	OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding bird surveys were not completed. **Habitat Observed - No** The size of cultural meadow is not sufficient for this species.

Taxonomy	Species	ESA Status	SARA Status	COSEWIC Status	Preferred Habitat[1, 2]	Associated ELC Communities	Known Species Range[1, 2]	Source Identifying Species Record	1-BR-03
Birds	Chimney Swift *Chaetura pelagica*	THR	THR Schedule 1	THR	Before European settlement, Chimney Swifts mainly nested on cave walls and in hollow trees or tree cavities in old growth forests. However, due to the land clearing associated with colonization, hollow trees became increasingly rare, which led Chimney Swifts to move into house chimneys. Today, they are more likely to be found in and around urban settlements where they nest and roost (rest or sleep) in chimneys and other manmade structures. It is likely that a small portion of the population continues to use hollow trees. They also tend to stay close to water as this is where the flying insects they eat congregate. The Chimney Swift spends the major part of the day in flight feeding on insects. In the northern part of the breeding range, the Chimney Swift favours sites where the ambient temperature is relatively stable.	**TPO, CUM1, MAM, MAS, OAO, SAS1, SAM1, SAF1** containing or adjacent structures with suitable nesting habitat (i.e. chimneys).	The Chimney Swift breeds in eastern North America, possibly as far north as southern Newfoundland. In Ontario, it is most widely distributed in the Carolinian zone in the south and southwest of the province, but has been detected throughout most of the province south of the 49th parallel. The Chimney Swift breeds mainly in eastern North America, from southern Canada down to Texas and Florida. The species breeds in east central Saskatchewan, southern Manitoba, southern Ontario, southern Quebec, New Brunswick, Nova Scotia, and possibly in Prince Edward Island and southwestern Newfoundland.	OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding bird surveys were not completed. **Habitat Observed - No** Buildings with chimneys may provide suitable roosting/nesting habitat. However, no breeding habitat was observed within the construction footprint.
Birds	Common Nighthawk *Chordeiles minor*	SC	THR Schedule 1	SC	Traditional Common Nighthawk habitat consists of open areas with little to no ground vegetation, such as logged or burned-over areas, forest clearings, rock barrens, peat bogs, lakeshores, and mine tailings. Although the species also nests in cultivated fields, orchards, urban parks, mine tailings, and along gravel roads and railways, they tend to occupy natural sites. The Common Nighthawk nests in a wide range of open, vegetation-free habitats, including dunes, beaches, recently harvested forests, rocky outcrops, grasslands, pastures, marshes, and river banks. This species also inhabits mixed and coniferous forests. The Common Nighthawk probably benefited from the newly-opened habitats created by the massive deforestation associated with the arrival of European settlers in eastern Canada and United States. The appearance of gravel roofs contributed to the expansion of the Common Nighthawk's habitat in North America.	**Species Observed - No** This species was not observed during field investigations. **Habitat Observed - No** +G25 habitat was not observed during field investigations.	The range of the Common Nighthawk spans most of North and Central America. In Canada, the species is found in all provinces and territories except Nunavut. In Ontario, the Common Nighthawk occurs throughout the province except for the coastal regions of James Bay and Hudson Bay.	OBBA	**Species Observed - No** This species was not observed during field investigations. **Habitat Observed - No** A deciduous forest is present within the Study Area, however, the understory was covered in dense vegetation.
Birds	Eastern Meadowlark *Sturnella magna*	THR	THR Schedule 1	THR	Eastern Meadowlarks breed primarily in moderately tall grasslands, such as pastures and hayfields, but are also found in alfalfa fields, weedy borders of croplands, roadsides, orchards, airports, shrubby overgrown fields, or other open areas. Small trees, shrubs, or fence posts are used as elevated song perches. Eastern Meadowlarks prefer grassland habitats, including native prairies and savannahs, as well as non-native pastures, hayfields, weedy meadows, herbaceous fencerows, and airfields.	**TPO, TPS, CUM1, CUS**, and **MAM2** with elevated song perches.	In Ontario, the Eastern Meadowlark is primarily found south of the Canadian Shield but it also inhabits the Lake Nipissing, Timiskaming, and Lake of the Woods areas. Including all subspecies, the Eastern Meadowlark's global breeding range extends from central and eastern North America, south through parts of South America. However, there is only one subspecies in Canada and the neighbouring northeastern U.S. In Canada, the bulk of the population breeds in southern Ontario.	NHIC, OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding bird surveys were not completed. **Habitat Observed - No** The size of cultural meadow is not sufficient for this species.
Birds	Eastern Wood-pewee *Contopus virens*	SC	SC Schedule 1	SC	The Eastern Wood-pewee lives in the mid-canopy layer of forest clearings and edges of deciduous and mixed forests. It is most abundant in intermediate-age mature forest stands with little understory vegetation. During migration, a variety of habitats are used, including forest edges and early successional clearings.	**FOC, FOM, FOD, SWD, SWM** and **CUW**.	The Eastern Wood-pewee is found across most of southern and central Ontario, and in northern Ontario as far north as Red Lake, Lake Nipigon, and Timmins. The breeding range of the Eastern Wood-pewee covers much of south-central and eastern North America.	OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding Bird surveys were not completed. **Habitat Observed - Yes** The deciduous forest community provides suitable habitat.

Taxonomy	Species	ESA Status	SARA Status	COSEWIC Status	Preferred Habitat[1, 2]	Associated ELC Communities	Known Species Range[1, 2]	Source Identifying Species Record	1-BR-03
Birds	Grasshopper Sparrow *Ammodramus savannarum* Grasshopper Sparrow (pratensis subspecies; Eastern Grasshopper Sparrow) *Ammodramus savannarum pratensis*	SC	SC Schedule 1	SC	It lives in open grassland areas with well-drained, sandy soil. It will also nest in hayfields and pasture, as well as alvars, prairies, and occasionally grain crops such as barley. It prefers areas that are sparsely vegetated. Its nests are well-hidden in the field and woven from grasses in a small cup-like shape. The Grasshopper Sparrow is a short-distance migrant and leaves Ontario in the fall to migrate to the southestern United States and Central America for the winter. In Canada, the Eastern Grasshopper Sparrow typically breeds in large human-created grasslands (5 ha or greater), such as pastures and hayfields, and natural prairies, such as alvars, characterized by well-drained, often poor soil dominated by relatively low, sparse perennial herbaceous vegetation.		The Grasshopper Sparrow can be found throughout southern Ontario, but only occasionally on the Canadian Shield. It is most common where grasslands, hay, or pasture dominate the landscape. In Canada, the breeding range of the Eastern Grasshopper Sparrow includes extreme southern Québec and southern Ontario, with the vast majority of birds occurring in Ontario.		**Species Observed - No** This species was not observed during field investigations. Breeding bird surveys were not completed. **Habitat Observed - No** The size of cultural meadow is not sufficient for this species.
Birds	Wood Thrush *Hylocichla mustelina*	SC	THR Schedule 1	THR	The Wood Thrush lives in mature deciduous and mixed (conifer-deciduous) forests. They seek moist stands of trees with well-developed undergrowth and tall trees for singing perches. These birds prefer large forests, but will also use smaller stands of trees. They build their nests in living saplings, trees, or shrubs, usually in Sugar Maple or American Beech. In Canada, the Wood Thrush nests mainly in second-growth and mature deciduous and mixed forests, with saplings and well-developed understory layers. This species prefers large forest mosaics, but may also nest in small forest fragments.	**FOD** and **FOM** that are greater than 1 ha in size.	The Wood Thrush is found all across southern Ontario. It is also found, but less common, along the north shore of Lake Huron, as far west as the southeastern tip of Lake Superior. There is a very small population near Lake of the Woods in northwestern Ontario, and there have been scattered sightings in the mixed forest of northern Ontario. The Wood Thrush breeds in southeastern Canada from southern Ontario east to Nova Scotia.	OBBA	**Species Observed - No** This species was not observed during field investigations. Breeding Bird surveys were not completed. **Habitat Observed - Yes** The deciduous forest community provides suitable habitat.
Insects	Monarch *Danaus plexippus*	SC	SC Schedule 1	END	Throughout their life cycle, Monarchs use three different types of habitat. Only the caterpillars feed on milkweed plants and are confined to meadows and open areas where milkweed grows. Adult butterflies can be found in more diverse habitats where they feed on nectar from a variety of wildflowers. Milkweeds (numerous species) are the sole food plant for Monarch caterpillars. These plants grow predominantly in open and periodically disturbed habitats such as roadsides, fields, wetlands, prairies, and open forests. Milkweeds are often planted outside their native range, and sometimes wayward Monarchs are observed at these patches. Monarchs require staging areas which are used to rest, feed, and avoid inclement weather during migration. In Canada, they are found along the north shores of the Great Lakes where Monarchs roost in trees before crossing large areas of open water.	**AI, TP,** and **CUM** where milkweed plants are present.	The Monarch's range extends from Central America to southern Canada. In Canada, Monarchs are most abundant in southern Ontario and Quebec where milkweed plants and breeding habitat are widespread. During late summer and fall, Monarchs from Ontario migrate to central Mexico where they spend the winter months. During migration, groups of Monarchs numbering in the thousands can be seen along the north shores of Lake Ontario and Lake Erie. The overall native range of the Monarch occurs from Central America northward through the continental United States to southern Canada, and from the Atlantic Coast westward to the Pacific Coast. The Canadian range of occurrence includes portions of all ten provinces and the Northwest Territories. Monarchs are loosely divided into eastern and western subgroups based on their migratory routes and overwintering sites. Eastern Monarchs breed from Alberta east to Nova Scotia and migrate south to overwinter in the mountains of Central Mexico. The breeding range in Canada is south of the 50° latitude in Ontario, Quebec, and the Maritimes. Each fall hundreds of thousands of Monarchs migrate through Long Point in southern Ontario but it's unknown what proportion of the Canadian population these individuals represent.	OBA	**Species Observed - No** This species was not observed during field investigations. Species specific surveys were not completed. **Habitat Observed - Candidate** The deciduous forest community provides suitable habitat. The Thames River provides suitable foraging habitat.

Taxonomy	Species	ESA Status	SARA Status	COSEWIC Status	Preferred Habitat[1, 2]	Associated ELC Communities	Known Species Range[1, 2]	Source Identifying Species Record	1-BR-03
Mammals	Eastern Small-footed Myotis (Eastern Small-footed Bat) *Myotis leibii*	END	N/A	N/A	In the spring and summer, Eastern Small-footed Bats will roost in a variety of habitats, including in or under rocks, in rock outcrops, in buildings, under bridges, or in caves, mines, or hollow trees. These bats often change their roosting locations every day. At night, they hunt for insects to eat, including beetles, mosquitos, moths, and flies. In the winter, these bats hibernate, most often in caves and abandoned mines. They seem to choose colder and drier sites than similar bats and will return to the same spot each year.		The Eastern Small-footed Bat has been found from south of Georgian Bay to Lake Erie and east to the Pembroke area. There are also records from the Bruce Peninsula, the Espanola area, and Lake Superior Provincial Park. Most documented sightings are of bats in their winter hibernation sites.	BCI	**Species Observed - No** This species was not observed during field investigations. Species-specific surveys were not completed. **Habitat Observed - No** Suitable bat habitat may exist in the deciduous forest community. No suitable bat habitat was identified within the construction footprint, however, leaf-off surveys were not completed during field investigations.
Mammals	Little Brown Myotis (Little Brown Bat) *Myotis lucifugus*	END	END Schedule 1	END	Bats are nocturnal. During the day they roost in trees and buildings. They often select attics, abandoned buildings, and barns for summer colonies where they can raise their young. Bats can squeeze through very tiny spaces (as small as six millimetres across) and this is how they access many roosting areas. Little Brown Bats hibernate from October or November to March or April, most often in caves or abandoned mines that are humid and remain above freezing. Their specific physiological requirements limit the number of suitable sites for overwintering. In the east, large numbers (i.e., >3000 bats) of several species typically overwinter in relatively few hibernacula. In the west, there are fewer known hibernacula, and numbers appear lower per site. Females establish summer maternity colonies, often in buildings or large-diameter trees. Foraging occurs over water, along waterways, and forest edges. Large open fields or clearcuts generally are avoided. In autumn, bats return to hibernacula, which may be hundreds of kilometres from their summering areas, swarm near the entrance, mate, and then enter that hibernaculum, or travel to different hibernacula to overwinter.		The Little Brown Bat is widespread in southern Ontario and found as far north as Moose Factory and Favourable Lake. In Canada, *Myotis lucifugus* occurs from Newfoundland to British Columbia, and northward to near the treeline in Labrador, Northwest Territories and Yukon.	BCI	**Species Observed - No** This species was not observed during field investigations. Species specific surveys were not completed. **Habitat Observed - Candidate** Suitable bat habitat may exist in the deciduous forest community. No suitable bat habitat was identified within the construction footprint, however, leaf-off surveys were not completed during field investigations.

Taxonomy	Species	ESA Status	SARA Status	COSEWIC Status	Preferred Habitat[1, 2]	Associated ELC Communities	Known Species Range[1, 2]	Source Identifying Species Record	1-BR-03
Mammals	Northern Myotis (Northern Long-eared Bat) *Myotis septentrionalis*	END	END Schedule 1	END	Northern Long-eared Bats are associated with boreal forests, choosing to roost under loose bark and in the cavities of trees. These bats hibernate from October or November to March or April. The Northern Long-eared Bat overwinters in cold and humid hibernacula (caves/mines). Their specific physiological requirements limit the number of suitable sites for overwintering. In the east, large numbers (i.e., >3000 bats) of several species typically overwinter in relatively few hibernacula. In the west, there are fewer known hibernacula, and numbers appear lower per site. Females establish summer maternity colonies in buildings or large-diameter trees. Foraging occurs along waterways, forest edges, and in gaps in the forest. Large open fields or clearcuts generally are avoided. In autumn, bats return to hibernacula, which may be hundreds of kilometres from their summering areas, swarm near the entrance, mate, and then enter that hibernaculum, or travel to different hibernacula to overwinter.	**FOC, FOM, FOD, SWC, SWM,** and **SWD** where suitable roosting (i.e. cavity trees and trees with loose bark) habitat is available.	The Northern Long-eared Bat is found throughout forested areas in southern Ontario, to the north shore of Lake Superior and occasionally as far north as Moosonee, and west to Lake Nipigon. In Canada, *Myotis septentrionalis* occurs from Newfoundland to British Columbia, and northward to near the treeline in Labrador, Northwest Territories, and Yukon.	BCI	**Species Observed - No** This species was not observed during field investigations. Species specific surveys were not completed. **Habitat Observed - Candidate** Suitable bat habitat may exist in the deciduous forest community. No suitable bat habitat was identified within the construction footprint, however, leaf-off surveys were not completed during field investigations.
Mammals	Tri-colored Bat *Perimyotis subflavus*	END	END Schedule 1	END	During the summer, the Tri-colored Bat is found in a variety of forested habitats. It forms day roosts and maternity colonies in older forest and occasionally in barns or other structures. They forage over water and along streams in the forest. Tri-colored Bats eat flying insects and spiders gleaned from webs. At the end of the summer they travel to a location where they swarm; it is generally near the cave or underground location where they will overwinter. They overwinter in caves where they typically roost by themselves rather than part of a group. The Tri-colored Bat overwinters in cold and humid hibernacula (caves/mines). Their specific physiological requirements limit the number of suitable sites for overwintering. In the east, large numbers (i.e., >3000 bats) of several species typically overwinter in relatively few hibernacula. In the west, there are fewer known hibernacula, and numbers appear lower per site. Females establish summer maternity colonies in buildings or large-diameter trees. Foraging occurs over water, along waterways, and forest edges. Large open fields or clearcuts generally are avoided. In autumn, bats return to hibernacula, which may be hundreds of kilometres from their summering areas, swarm near the entrance, mate, and then enter that hibernaculum, or travel to different hibernacula to overwinter.		This bat is found in southern Ontario and as far north as Espanola near Sudbury. Because it is very rare, it has a scattered distribution. It is also found from eastern North America down to Central America. In Canada, *Perimyotis subflavus* occurs in Nova Scotia, New Brunswick, Quebec, and Ontario.	BCI	**Species Observed - No** This species was not observed during field investigations. Species specific surveys were not completed. **Habitat Observed - Candidate** Suitable bat habitat may exist in the deciduous forest community. No suitable bat habitat was identified within the construction footprint, however, leaf-off surveys were not completed during field investigations.

Taxonomy	Species	ESA Status	SARA Status	COSEWIC Status	Preferred Habitat[1, 2]	Associated ELC Communities	Known Species Range[1, 2]	Source Identifying Species Record	1-BR-03
Reptiles	Snapping Turtle *Chelydra serpentina*	SC	SC Schedule 1	SC	Snapping Turtles spend most of their lives in water. They prefer shallow waters so they can hide under the soft mud and leaf litter, with only their noses exposed to the surface to breathe. During the nesting season, from early to mid summer, females travel overland in search of a suitable nesting site, usually gravelly or sandy areas along streams. Snapping Turtles often take advantage of man-made structures for nest sites, including roads (especially gravel shoulders), dams, and aggregate pits. Although Snapping Turtles have been observed in shallow water in almost every kind of freshwater habitat, the preferred habitat of the species is characterized by slow-moving water with a soft mud bottom and dense aquatic vegetation. Established populations are most often located in ponds, sloughs, shallow bays or river edges, and slow streams, or areas combining several of these wetland habitats. Individual turtles will persist in urbanized water bodies, such as golf course ponds and irrigation canals, but it is unlikely that a population could become established in such habitats. The Snapping Turtle can occur in highly polluted waterways, but environmental contamination is known to reduce the already low reproductive output of this species. Basking on offshore logs and protruding rocks can be common in Snapping Turtles, depending on environmental temperature. Females generally nest on sand or gravel banks along waterways. Upon emergence from the nest in early fall, hatchling Snapping Turtles usually move to water, after which they bury themselves under leaf litter or debris. Snapping Turtles overwinter underwater, buried beneath logs, sticks or overhanging banks in small streams that flow continuously throughout the winter. They can also hibernate buried in deep mud in marshy areas or beneath floating mats of vegetation. Snapping Turtle habitat is diminishing in both quantity and quality in Canada, with losses primarily due to conversion of wetlands to agriculture and urban development.	**OAO, SA** near gravelly or sandy areas.	The Snapping Turtle's range extends from Ecuador to Canada. The Snapping Turtle's range is contracting. In Canada, the species is widespread from Nova Scotia to southeastern Saskatchewan, though it is absent from northwestern Ontario, where summers are likely too cool for Snapping Turtle embryos to complete development successfully. The Snapping Turtle is therefore present in mainland Nova Scotia, southern New Brunswick, southern and central Quebec, southern and central Ontario, southern Manitoba, and southeastern Saskatchewan, primarily in the Qu'Appelle watershed.	NHIC, ORAA	**Species Observed - No** This species was not observed during field investigations. Species specific surveys were not completed. **Habitat Observed - Candidate** Mimico Creek may provide suitable habitat.

Appendix D. Species at Risk Habitat Screening

Glossary

EXP	ESA - Extripated - a species that no longer exists in the wild in Ontario but still occurs elsewhere. SARA - Extripated - a wildlife species that no longer exists in the wild in Canada, but exists elsewhere in the wild.
END	ESA - Endangered - a species facing imminent extinction or extirpation in Ontario which is a candidate for regulation under Ontario's Endangered Species Act. SARA - Endangered - a wildlife species that is facing imminent extirpation or extinction.
THR	ESA - Threatened - a species that is at risk of becoming endangered in Ontario if limiting factors are not reversed. SARA - Threatened - a wildlife species that is likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.
SC	ESA - Special Concern (formerly Vulnerable) - a species with characteristics that make it sensitive to human activities or natural events. SARA - Special Concern - a wildlife species that may become a threatened or an endangered species because of a combination of biological characteristics and identified threats.
OMNR	Ontario Ministry of Natural Resources
ESA	Endangered Species Act
SARA	Species at Risk Act (Federal)
Schedule 1	The official list of species that are classified as extirpated, endangered, threatened, and of special concern.
Schedule 2	Species listed in Schedule 2 are species that had been designated as endangered or threatened, and have yet to be re-assessed by COSEWIC using revised criteria. Once these species have been re-assessed, they may be considered for inclusion in Schedule 1.
Schedule 3	Species listed in Schedule 3 are species that had been designated as special concern, and have yet to be re-assessed by COSEWIC using revised criteria. Once these species have been re-assessed, they may be considered for inclusion in Schedule 1.
COSEWIC	Committee on the Stauts of Endangerd Wildlife in Canada - a committee of experts that assesses and designates which wild species are in some danger of disappearing from Canada.

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Appendix D

Arborist Report and Tree Preservation Plan

AECOM Imagine it. Delivered.

City of Mississauga

Malton Flood Cluster 6 Arborist Report and Tree Preservation Plan

Prepared by:

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Date: January 2021

Project #: 60620028

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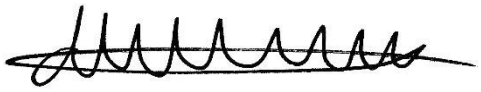

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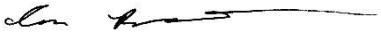

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1. Introduction

AECOM Canada Ltd. (AECOM) has been retained by the Corporation of the City of Mississauga (the City) to provide an Arborist Report and Tree Preservation Plan in support of the Schedule 'B' Municipal Class Environmental Assessment (MCEA) for the detailed flood mitigation project between Justine Drive and Etude Drive (the Project).

In anticipation of tree injuries and removals required to facilitate and support the Project, AECOM completed a tree inventory within the Preliminary Tree Inventory Study Area in order to assess the general health and structure of the onsite trees. For the purpose of this report, the Preliminary Tree Inventory Study Area is defined as the Project's Impact Area, based on the Project's Preliminary Design, as well as a 6 m or 10 m Buffer Area from the Impact Area to include additional trees that may be affected by the proposed construction **(Figure 1).** Additionally, the Impact Areas and Study Areas of the five (5) preferred Project Alternatives are detailed in the **Appendices B2, C2, D2, E2** and **F2.** It should be noted that the Preliminary Tree Inventory Study Area does not encompass the full extent of the Project's five Alternative Impact Areas, due to updates in the Project's Detailed Design between the field work being completed and this analysis being conducted. As such further tree investigations may be required depending on the preferred Alternative that is chosen to deliver the Project.

As per the City's and the Toronto and Region Conservation Authority (TRCA) by-laws and guidelines, an Arborist Report and Tree Preservation Plan is required to account for trees that are in close proximity of any proposed work that may affect trees. As such, this report has been prepared in accordance with the City's tree protection by-laws and guidelines as well as the TRCA's *Guideline for Determining Ecosystem Services* (2018).

Legend

- Preliminary Tree Inventory Study Area
- Watercourse

Malton Flood Mitigation Study
Etude Drive to Justine Drive

Preliminary Tree Study Area

0 20 40 80 120 160

Meters

DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:2,500 * when printed 11"x17"	**Data Sources:** 60620089, Tree, Arborist
P#:60620089	Rev:00	

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Figure 1

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Map location: E:\PR\60620\26_MaltonFloodDesign\01_Reports\ArboristReport_2021\01MXD_60620089_PreliminaryTreeStudyArea_R00.mxd
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2. Applicable By-Laws and Regulations

2.1 Private Tree Protection By-Law

The City's *Private Tree Protection By-Law* prohibits the injury or destruction of Heritage Trees without approval under the *Ontario Heritage Act (2005)* and the injury or destruction of three or more trees with a diameter greater than 15 cm on a lot within one calendar year without a permit (including dead and/or dying trees). Application for a permit includes the submission of an Arborist Report and Tree Preservation Plan as required by the commissioner.

2.2 Encroachment By-Law (57-04)

Trees are also protected by the City of Mississauga's *Encroachment By-Law (57-04)* which prohibits unauthorized use of City property including unauthorized mowing, cutting, pruning or removal of trees or shrubs by individuals or corporations for their own purposes. Removal of trees through the site plan process are subject to the *Site Plan Control By-Law (0293-2006).*

2.3 Tree Preservation & Protection Standards

The City's *Tree Preservation & Protection Standards* (2017) provides guidance and procedures for Tree Preservation and Protection for development/utility applications on Public Lands. Compensation for individual trees on public property within the City is determined by diameter at breast height (DBH) – **Table 1**. Replacement tree ratios are based on 60 mm caliper deciduous trees, and 1.8 m tall coniferous trees.

Table 1: City of Mississauga Public Tree Replacement Ratios

DBH (cm) of Tree Being Removed	Replacement Ratio
6-15	1:1
16-30	1:2
31-45	1:3
46-60	1:4
61-75	1:5
76-90	1:6
91-105	1:7
106-120	1:8
>120	1:9

2.4 TRCA Guideline to Ecosystem Compensation

Compensation for individual trees in a TRCA regulated area is determined by DBH, as laid out in the TRCA *Guideline for Determining Ecosystem Services* (2018) and shown in **Table 2.** Replacement trees ratios are based on 60 mm caliper trees, with costs to include maintenance and monitoring with a two-year warranty, based on industry standards.

Table 2: TRCA Tree Replacement Ratios

DBH (cm) of Tree Being Removed	Replacement Ratio
0 – 10	1:1
10.1 – 20	1:3
20.1 – 30	1:10
30.1 – 40	1:15
40.1 – 50	1:20
50.1 – 60	1:30
60.1 – 70	1:40
70.1 +	1:50

2.5 Species at Risk

The *Endangered Species Act*, 2007 (ESA), provides for the conservation of threatened, rare or special concern species and their habitat in Ontario. The ESA regulates the recovery or any other aspect involving a protected species. Specific regulations for individual species can be found in the provincial regulations.

3. Methods

The tree inventory and assessment were completed by AECOM's ISA Certified Arborists on November 5, 6, 12 and 13, 2020. Data were collected using the accepted standard arboricultural techniques as outlined in the Council of Tree & Landscape Appraisers' *Guide for Plant Appraisal* (2000), the City's *Tree Preservation & Protection Standards* (2017), and the TRCA's *Guideline for Determining Ecosystem Services* (2018).

3.1 Tree Inventory

All trees with a measurable DBH that will be affected by the proposed construction within the Preliminary Tree Inventory Study Area were inventoried in accordance with the City's guidelines. The locations of all identified trees were recorded using an SX Blue GPS unit and Samsung tablet. **Appendices B2-B6, C2-C9, D2-D9, E2-E6** and **F2-F9** illustrate the Study Area for each Alternative, respectively, as well as the Preliminary Tree Inventory Study Area and the locations of all trees included in the inventory and assessment.

3.2 Tree Assessment

Techniques for tree assessment included a visual examination of above-ground parts of each tree. The trees observed were not climbed, probed, cored, or dissected, and excavation for detailed root crown inspection was not performed. Since some symptoms may only be present seasonally, the extent of observations that can be made may be limited by the time of year in which the assessment took place. Trees inventoried during leaf-off season underwent a full crown assessment by examining the proportion of live buds in the crown.

It is understood that trees are living organisms and their health and vigour are continually changing over time due to factors such as seasonal variations and changes in site conditions. For this reason, the assessment presented in this report is valid at the time of inspection and no guarantee is made about the continued health of trees that are deemed to be in good, fair or poor condition.

In accordance with the aforementioned guidelines, all trees with a measurable DBH are to be identified, sized and assessed for condition. The visual inspection included recording abiotic and biotic disorders as well as structural defects. These defects and disorders are listed within the Comments column of **Appendix A1**. The condition rating designated to each tree was based on the results of the basic assessment. The hazard potential of trees was assessed using the method outlined in the ISA publication A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas – 2nd Edition (Mattheny and Clark, 1994). Using this guide, an overall condition rating (i.e., dead, poor, fair, good or hazard) was given to each tree included in the inventory.

Dead ..... A specimen tree is considered dead when it has no living tissue.

Hazard ..... The specimen tree could either be alive or dead but the tree in its part could pose an imminent hazard to people or property during normal weather conditions. These trees have the potential for splitting, breaking and/or falling over during inclement weather, and because of their proximity to various targets (i.e., people or property), could cause personal injury and/or severe damage to municipal infrastructure and/or private property.

Poor..... Trees in poor condition show major symptoms of decline. At least 50% of main scaffold branches are dead, missing or in diseased state. The trunk shows evidence of advanced rot, deadwood or is hollow throughout. Twig development on the main branched or throughout the canopy is poor and may have limited sucker growth. Callus growth around wounds is minimal. A tree in poor condition could decline further to become a safety hazard. Removal prior to development should be considered if it is considered a hazard tree.

Fair ..... Trees in fair condition show moderate symptoms of decline in lower canopy or scaffold branches, but more than 50% of scaffold branches are present and viable. The trunk shows limited evidence of rot or insect damage. Good callus growth is present near wound areas. Trees that have scaffold branches that are healthy, but are in a “Y” formation may also be included in this category, if “included-bark” is evident as the risk of splitting or breakage increases as the tree matures. Removal or preservation of these trees depends on the location of the specimen and associated target potential, and would depend on the species, and its tolerance to grading, trenching and surviving in an urban environment. Some major arboricultural maintenance may be required and may include major scaffold or secondary branch removal, bracing and/or cabling.

Good..... The specimen tree shows no symptoms of decline in the trunk, and all scaffold branches are present and are in good condition. Most scaffold branches are at right angles to the trunk, and show good vigour. Small amounts of dead wood may be present in secondary branches, but account for less than 25% of the canopy. Depending on the grading in the immediate area, a tree in good condition would be recommended for preservation. Such a tree would typically survive to maturity without major arboricultural maintenance.

The visual inspection recorded abiotic disorders and conditions including scars/wounds, evidence of decay, discolouration of foliage, structural damage to root structures, as well as biotic disorders including insects damage or fungal infections. These defects and disorders are listed within the Comments/Observations column of **Appendix A1.**

3.3 Tree Impact Analysis

Using data collected during the tree inventory and assessment, a tree impact analysis was performed using ArcGIS software. Recommendations for each tree’s proposed action (i.e., remove, injury with protection, protection with no injury or retention with no protection) were based on several factors including each tree’s current condition and its location in relation to each Alternative’s Impact Area. Based on the City’s *Tree Preservation and Protection Standards* (2017), a recommended tree protection zone (TPZ) was applied around each tree. The TPZ is an area around each tree, typically established based on the species and size of tree and are intended to provide a buffer protecting the tree from potential impacts, including root and soil compaction and mechanical damage.

In accordance with Tree Protection Zone tables within the *Tree Preservation and Protection Standards* (2017), TPZs for trees within the Preliminary Tree Inventory Study Area were determined based on the tree’s diameter class. Furthermore, based on a directive from the TRCA, trees that were located within a TRCA regulated area were to have a TPZ that was 1 m beyond the dripline. As such, for the purposes of this tree impact analysis the largest TPZ (i.e., diameter class or dripline +1 m) was used for trees found within a TRCA regulated area.

Generally, the following guidelines are followed in obtaining a tree’s recommended action:

- Trees with equal to or greater than 40% of its TPZ affected by proposed work activities are recommended for **removal** as there would likely be negative impacts to the tree.

- Trees with 25-39%% of its TPZ affected by proposed work activities are recommended for **injury with protection** in order to mitigate further damage to the tree's below-ground parts and above-ground parts.
- Trees with 0-24% of its TPZ affected by proposed work activities are recommended for **minor injury with protection** in order to mitigate further damage to the tree's below-ground parts and above-ground parts.
- Trees with TPZs that are not impacted by the proposed work activities that are found within the Buffer Area or within 2 m of the Buffer Area are recommended for **protection with no injury**, in order to mitigate the chances of accidental injury from adjacent work activities.
- Trees with TPZs found greater than 2 m from the outside of the Buffer Area are recommended for **retention with no protection** as it is unlikely that there would be negative impacts to the tree.
- Hazard trees, as well as trees found to be in poor or dead condition that could pose a hazard, will be recommended for **removal**, both within and outside of the Impact Area.

3.4 Tree Valuation

As outlined in the City's *Tree Preservation & Protection Standards* (2017), a Tree Appraisal Value using the Trunk Formula Method for City-owned trees recommended for removal is a requirement for an Arborist Report. The Council for Tree & Landscape Appraisers' (CTLA) provides guidance on using the Trunk Formula Method to appraise the monetary value of trees that are considered too large to be replaced with nursery or field-grown stock. There are several factors to be considered when appraising a tree recommended for removal, including (but not limited to) its species factor, condition factor, installation cost and replacement cost. These factors are based on the *Guide for Plant Appraisal* (2000) *Ontario Supplement* (2003) document which provides regionally relevant data pertaining to species ratings, and basic costs for trees and/or current industry tree replacement costs. As such, each City-owned tree that was recommended for removal within the Preliminary Tree Inventory Study Area was appraised using the Trunk Formula Method. Further details on each tree's appraisal value are available in **Appendix G**.

3.5 Areas of Tree Saplings and Monoculture Thickets

Areas that had tree saplings planted at high densities or monoculture thickets of trees were measured and the number of trees within them counted and identified at a species level. Using the tablet-GPS unit combination, as stated in Section 3.1, these areas were delineated digitally as a polygon on a georeferenced map in ESRI Collector Classic. A tally was then conducted to quantify the number of trees in these areas and the minimum and maximum DBHs were also recorded. Thereafter, based on each Alternative's Impact Area, respectively, a GIS-based impact analysis was then conducted to quantify the impacts to the areas of tree saplings or monoculture thickets.

4. Results

4.1 Tree Inventory

A total of 649 trees were inventoried and assessed within Preliminary Tree Inventory Study Area. **Table 3** provides a detailed summary of the total number of trees within each of the Project's alternatives and their relevant location category within that Project alternative. **Appendix A1** summarizes the data collected for all trees and information including species name, DBH, location, health, whilst **Appendices B1, C1, D1, E1** and **F1** details each tree's location category in relation to the Project's Impact Area for the Alternative, respectively. Trees inventoried are illustrated on **Appendices B3-B6, C3-C9, D3-D9, E3-E6** and **F3-F9**

Table 3: Summary of Tree Locations within Each Project Alternative

Project Alternative Number	Trees within Project Alternative Study Area	Trees within Project Alternative Impact Area	Trees within Project Alternative Buffer Area	Trees Outside Project Alternative Study Area	Trees Outside Preliminary Tree Inventory Study Area	Total Number of Trees
1	490	370	120	144	15	**649**
2	544	410	134	91	14	**649**
3	545	412	133	90	14	**649**
4	67	44	23	540420	2	**649**
5	44	3	34	27	0	**649**

4.2 Tree Assessment

All trees surveyed as part of the tree inventory and assessment were found within an urban/natural environment and consisted of small, medium and large trees with DBH measurements ranging from 1 cm to 50 cm; the average DBH was 16 cm. The majority of the defects observed were caused by either human interference or natural occurrences including mechanical damage, insects, weather and natural environmental conditions. Biotic and abiotic disorders and structural defects observed are included in **Appendix A1. Table 4** provides a summary of the overall condition of the trees ranging from a rating of good to dead.

Table 4: Summary of Tree Condition

Tree Condition	Total Number of Trees
Good	242
Fair	333
Poor	33
Dead	39
Hazard	2
Total	**649**

4.3 Tree Impact Analysis

4.3.1 Alternative 1

Based on the results of the tree impact analysis for Alternative 1, a total of 402 trees are recommended for removal including 370 within the Impact Area and 27 trees within the Buffer Area (Study Area). Additionally, 4 trees are

located outside of the Alternative 1 Study Area, and 1 tree is located outside the Preliminary Tree Inventory Study Area. Of the 402 trees, a total of 74 are recommended for removal as they are in dead/poor or hazardous condition and are considered a risk. A total of 41 trees are recommended for injury with protection, with 17 being recommended for injury and 24 for minor injury. A further 55 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 151 trees are recommended to be retained. **Table 5** summarizes the number of trees recommended for removal, injury and protection, minor injury and retention for Alternative 1; **Appendices B3-B6** indicate each tree's recommended action and illustrates the TPZs for all trees that are recommended for protection and retention for Alternative 1.

Table 5: Summary of Tree Removal and Preservation Recommendations for Alternative 1

Tree Location/ Ownership	Remove	Protect – Injury	Protect - Minor Injury	Protect - No Injury	Retain	Total
City	309	-	-	1	-	**310**
City ROW	57	3	-	-	-	**60**
City Park	11	-	3	8	-	**22**
Peel District School Board	-	-	-	-	-	**-**
Private	20	14	21	43	-	**98**
N/A*	5	-	-	3	151	**159**
Totals	**402**	**17**	**24**	**55**	**151**	**649**

*Note: * Trees located outside of the Preliminary Tree Inventory Study Area and the Alternative 1 Study Area (i.e., Alternative 1 Impact Area and Alternative 1 Buffer Area) that have not been included in tree compensation numbers*

4.3.2 Alternative 2

Based on the results of the tree impact analysis for Alternative 2, a total of 445 trees are recommended for removal including 410 within the Impact Area and 30 trees within the Buffer Area (Study Area). Additionally, 4 trees are located outside of the Alternative 2 Study Area, and 1 tree located outside of the Preliminary Tree Inventory Study Area. Of the 445 trees, 74 are recommended for removal as they are in poor/dead or hazardous condition and are considered a risk. A total of 45 trees are recommended for injury with protection, with 18 being recommended for injury and 27 for minor injury. A further 87 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 72 trees are recommended to be retained. **Table 6** summarizes the number of trees recommended for removal, injury and protection, minor injury and retention for Alternative 2; **Appendices C3-C9** indicate each tree's recommended action and illustrates the TPZs for all trees that are recommended for protection and retention for Alternative 2.

Table 6: Summary of Tree Removal and Preservation Recommendations for Alternative 2

Tree Location/ Ownership	Remove	Protect - Injury	Protect - Minor Injury	Protect - No Injury	Retain	Total
City	309	-	-	1	**-**	**310**
City ROW	60	3	-	1	-	**64**
City Park	51	1	6	14	-	**72**
Peel District School Board	-	-	-	-	-	**-**
Private	20	14	21	43	-	**98**
N/A*	5	**-**	**-**	**28**	**72**	**105**
Totals	**445**	**18**	**27**	**87**	**72**	**649**

*Note: * Trees located outside of the Preliminary Tree Inventory Study Area and the Alternative 2 Study Area (i.e., Alternative 2 Impact Area and Alternative 2 Buffer Area) that have not been included in tree compensation numbers*

4.3.3 Alternative 3

Based on the results of the tree impact analysis for Alternative 3, a total of 446 trees are recommended for removal including 412 within the Impact Area and 29 trees within the Buffer Area (Study Area). Additionally, 4 trees are located outside of the Alternative 3 Study Area, and 1 tree is located outside the Preliminary Tree Inventory Study Area. Of the 446 trees, a total of 74 are recommended for removal as they are in poor/dead or hazardous conditions and are considered a risk. A total of 41 trees are recommended for injury with protection, with 17 being recommended for injury and 24 for minor injury. A further 91 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 71 trees are recommended to be retained. **Table 7** summarizes the number of trees recommended for removal, injury and protection, minor injury and retention for Alternative 3; **Appendices D3-D9** indicate each tree's recommended action and illustrates the TPZs for all trees that are recommended for protection and retention for Alternative 3.

Table 7: Summary of Tree Removal and Preservation Recommendations for Alternative 3

Tree Location/Ownership	Remove	Protect - Injury	Protect - Minor Injury	Protect - No Injury	Retain	Total
City	309	-	-	1	-	**310**
City ROW	61	2	-	1	-	**64**
City Park	51	1	5	15	-	**72**
Peel District School Board	-	-	-	-	-	**-**
Private	20	14	19	46	-	**99**
N/A*	5	-	-	28	71	**104**
Totals	**446**	**17**	**24**	**91**	**71**	**649**

*Note: * Trees located outside of the Preliminary Tree Inventory Study Area and the Alternative 3 Study Area (i.e., Alternative 3 Impact Area and Alternative 3 Buffer Area) that have not been included in tree compensation numbers*

4.3.4 Alternative 4

Based on the results of the tree impact analysis for Alternative 4, a total of 120 trees are recommended for removal including 44 within the Impact Area and 4 trees within the Buffer Area (Study Area). Additionally, 62 trees are located outside of the Alternative 4 Study Area, and 10 trees are located outside the Preliminary Tree Inventory Study Area. Of the 120 trees, a total of 74 are recommended for removal as they are in poor/dead or hazardous conditions and are considered a risk. A total of 6 trees are recommended for injury with protection, with 2 being recommended for injury and 4 for minor injury. A further 45 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 478 trees are recommended to be retained. **Table 8** summarizes the number of trees recommended for removal, injury and protection, minor injury and retention for Alternative 4; **Appendices E3-E6** indicate each tree's recommended action and illustrates the TPZs for all trees that are recommended for protection and retention for Alternative 4.

Table 8: Summary of Tree Removal and Preservation Recommendations for Alternative 4

Tree Location/Ownership	Remove	Protect - Injury	Protect - Minor Injury	Protect - No Injury	Retain	Total
City	-	-	-	-	-	**-**
City ROW	7	1	-	6	-	**14**
City Park	40	1	3	6	-	**50**
Peel District School Board	-	-	-	-	-	**-**
Private	1	-	1	1	-	**3**
N/A*	**72**	**-**	**-**	**32**	**478**	**582**
Totals	**120**	**2**	**4**	**45**	**478**	**649**

*Note: * Trees located outside of the Preliminary Tree Inventory Study Area and the Alternative 4 Study Area (i.e., Alternative 4 Impact Area and Alternative 4 Buffer Area) that have not been included in tree compensation numbers.*

4.3.5 Alternative 5

Based on the results of the tree impact analysis for Alternative 5, a total of 172 trees are recommended for removal including 97 within the Impact Area and 13 trees within the Buffer Area (Study Area). Additionally, 58 trees are located outside of the Alternative 5 Study Area and 4 trees are located outside the Preliminary Tree Inventory Study Area. Of the 172 trees, a total of 74 are recommended for removal as they are in poor/dead or hazardous conditions and are considered a risk. A total of 21 trees are recommended for injury with protection, with 8 being recommended for injury and 13 for minor injury. A further 64 trees have been recommended to have protection placed around them, due to their TPZs being within the Buffer Area or within 2 m of the Buffer Area. The remaining 392 trees are recommended to be retained. **Table 9** summarizes the number of trees recommended for removal, injury and protection, minor injury and retention for Alternative 5; **Appendices F3-F9** indicate each tree's recommended action and illustrates the TPZs for all trees that are recommended for protection and retention for Alternative 5.

Table 9: Summary of Tree Removal and Preservation Recommendations for Alternative 5

Tree Location/Ownership	Remove	Protect - Injury	Protect - Minor Injury	Protect - No Injury	Retain	Total
City	-	-	-	1	-	**1**
City ROW	62	2	1	5	-	**70**
City Park	41	1	4	7	-	**53**
Peel District School Board	-	-	-	-	-	**-**
Private	7	5	8	17	-	**37**
N/A*	62	-	-	34	392	**488**
Totals	**172**	**8**	**13**	**64**	**392**	**649**

*Note: * Trees located outside of the Preliminary Tree Inventory Study Area and the Alternative 5 Study Area (i.e., Alternative 5 Impact Area and Alternative 5 Buffer Area) that have not been included in tree compensation numbers.*

4.4 Permits

The City is exempt from acquiring tree removal permits under the *Private Tree Protection By-Law* and the *Encroachment By-Law*.

4.5 Compensation

The City's *Tree Preservation & Protection Standards* (2017) provides a Public Tree Replacement Chart, identifying the number of compensation trees required for the removal of trees on public property. Similarly, Table C-1 of the TRCA's *Guideline for Determining Ecosystem Services* (2018) identifies the number of compensation trees required for removal of trees within TRCA regulated areas. **Tables 10** through **14** summarize the number of trees required to compensate to the City, based on the *Tree Preservation & Protection Standards,* and to the TRCA, based on the *Guideline for Determining Ecosystem Services*, for each Project Alternative, respectively. Trees recommended for removal outside of each Project Alternative's Study Area for health and safety purposes are not accounted for in these compensation numbers.

Table 10: Summary of Trees Requiring Compensation for Alternative 1

City of Mississauga Tree Compensation			TRCA Tree Compensation		
DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required	DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required
6-15	1:1	152	0 – 10	1:1	142
16-30	1:2	94	10.1 – 20	1:3	76
31-45	1:3	32	20.1 – 30	1:10	56
46-60	1:4	5	30.1 – 40	1:15	25
61-75	1:5	6	40.1 – 50	1:20	5
76-90	1:6	-	50.1 – 60	1:30	4
91-105	1:7	-	60.1 – 70	1:40	4
106-120	1:8	-	70.1 +	1:50	1
>120	1:9	-			
	Total	289		**Total**	313

Alternative 1 requires a total of 486 on-site replacement trees to compensate for the 289 tree removals based on the City's Public Replacement Chart. Additionally, a total of 1735 replacement trees are required to compensate for the 313 tree removals within the TRCA regulated area based on the TRCA's Guideline for *Determining Ecosystem Services.*

Table 11: Summary of Trees Requiring Compensation for Alternative 2

City of Mississauga Tree Compensation			TRCA Tree Compensation		
DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required	DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required
6-15	1:1	162	0 – 10	1:1	142
16-30	1:2	99	10.1 – 20	1:3	76
31-45	1:3	33	20.1 – 30	1:10	56
46-60	1:4	6	30.1 – 40	1:15	25
61-75	1:5	7	40.1 – 50	1:20	5
76-90	1:6	-	50.1 – 60	1:30	4
91-105	1:7	-	60.1 – 70	1:40	4
106-120	1:8	-	70.1 +	1:50	1
>120	1:9	-			
	Total	307		**Total**	313

Alternative 2 requires a total of 518 on-site replacement trees to compensate for the 307 tree removals based on the City's Public Replacement Chart. Additionally, a total of 1735 replacement trees are required to compensate for the 313 tree removals within the TRCA regulated area based on the TRCA's Guideline for *Determining Ecosystem Services.*

Table 12: Summary of Trees Requiring Compensation for Alternative 3

City of Mississauga Tree Compensation			TRCA Tree Compensation		
DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required	DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required
6-15	1:1	162	0 – 10	1:1	142
16-30	1:2	99	10.1 – 20	1:3	76
31-45	1:3	34	20.1 – 30	1:10	56

City of Mississauga Tree Compensation			TRCA Tree Compensation		
DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required	DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required
46-60	1:4	6	30.1 – 40	1:15	25
61-75	1:5	7	40.1 – 50	1:20	5
76-90	1:6	-	50.1 – 60	1:30	4
91-105	1:7	-	60.1 – 70	1:40	4
106-120	1:8	-	70.1 +	1:50	1
>120	1:9	-			
	Total	308		**Total**	313

Alternative 3 requires a total of 521 on-site replacement trees to compensate for the 308 tree removals based on the City's Public Replacement Chart. Additionally, a total of 1735 replacement trees are required to compensate for the 313 tree removals within the TRCA regulated area based on the TRCA's Guideline for *Determining Ecosystem Services.*

Table 13: Summary of Trees Requiring Compensation for Alternative 4

City of Mississauga Tree Compensation			TRCA Tree Compensation		
DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required	DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required
6-15	1:1	10	0 – 10	1:1	-
16-30	1:2	5	10.1 – 20	1:3	-
31-45	1:3	3	20.1 – 30	1:10	-
46-60	1:4	1	30.1 – 40	1:15	-
61-75	1:5	2	40.1 – 50	1:20	-
76-90	1:6	-	50.1 – 60	1:30	-
91-105	1:7	-	60.1 – 70	1:40	-
106-120	1:8	-	70.1 +	1:50	-
>120	1:9	-			
	Total	21		**Total**	0

Alternative 4 requires a total of 43 on-site replacement trees to compensate for the 21 tree removals based on the City's Public Replacement Chart. Based on this alternative, there are no TRCA replacement trees required to compensate for tree removals within the TRCA regulated area.

Table 14: Summary of Trees Requiring Compensation for Alternative 5

City of Mississauga Tree Compensation			TRCA Tree Compensation		
DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required	DBH of Tree Being Removed	Replacement Ratio	Trees to be Removed with Compensation Required
6-15	1:1	28	0 – 10	1:1	1
16-30	1:2	25	10.1 – 20	1:3	5
31-45	1:3	10	20.1 – 30	1:10	5
46-60	1:4	2	30.1 – 40	1:15	3
61-75	1:5	2	40.1 – 50	1:20	1
76-90	1:6		50.1 – 60	1:30	
91-105	1:7		60.1 – 70	1:40	
106-120	1:8		70.1 +	1:50	
>120	1:9				
	Total	67		**Total**	15

Alternative 5 requires a total of 126 on-site replacement trees to compensate for the 67 tree removals based on the City's Public Replacement Chart. Additionally, a total of 131 replacement trees are required to compensate for the 15 tree removals within the TRCA regulated area based on the TRCA's Guideline for *Determining Ecosystem Services.*

4.6 Tree Valuation

All City-owned trees recommended for removal within each Alternative was appraised using the CTLA Trunk Formula Method described in **Section 3.4**. **Table 15** below provides the total monetary value of City-owned trees recommended for removal within each Alternative. Further detailed tree valuation information, per Alternative, can be found in **Appendices .B1, C1, D1, E1** and **F1,** whilst details on each tree's appraisal value are available in **Appendix G**.

Table 15: Total Appraisal Value Per Alternative

Project Alternative Number	Total of City-owned Trees Recommended for Removal	Total Appraisal Value
Alternative 1	377	$316,231.41
Alternative 2	420	$351,141.39
Alternative 3	421	$351, 170.96
Alternative 4	47	$50, 440.45
Alternative 5	103	$104, 739.20

4.7 Areas of Tree Saplings and Monoculture Thickets

Across the Preliminary Tree Inventory Study Area, six (6) polygon tallies were conducted that included three (3) tree sapling areas and three (3) monoculture thickets of staghorn sumac (*Rhus typhina*). Based on the results of the GIS-based impact analysis for each of the Project's respective Alternatives, varying numbers of tree saplings and staghorn sumac from these areas are anticipated to be removed as well as tree compensated for **(Tables 15-19),** as per the requirements stated in Sections 2.3 and 2.4 of this report. Further information on these tree sapling areas and monoculture thickets can be found in **Appendix A2.**

Table 16: Summary of Impacts to Planted Tree Areas and Monoculture Thickets for Alternative 1

Project Alternative	Tree Area ID	Total Area (m^2)	Number of Stems in Polygon	Total Area Impacted by Project (m^2)	Total Area Impacted by Project (%)	Approximate Number of Stems Being Removed	Recommended Number of Replacement Trees (City of Mississauga)	Recommended Number of Replacement Trees (TRCA)
1	TA-01	467	75	0	0	0	NA	NA
1	TA-02	506	44	0	0	0	NA	NA
1	TA-03	1154	105	1154	100	105	NA	90
1	TA-04	138	120	138	100	120	NA	NA
1	TA-05	90	20	90	100	20	NA	NA
1	TA-06	100	30	100	100	30	NA	NA
					Totals	275	0	90

Table 17: Summary of Impacts to Planted Tree Areas and Monoculture Thickets for Alternative 2

Project Alternative	Tree Area ID	Total Area (m^2)	Number of Stems in Polygon	Total Area Impacted by Project (m^2)	Total Area Impacted by Project (%)	Approximate Number of Stems Being Removed	Recommended Number of Replacement Trees (City of Mississauga)	Recommended Number of Replacement Trees (TRCA)
2	TA-01	467	75	0	0	0	NA	NA
2	TA-02	506	44	0	0	0	NA	NA
2	TA-03	1154	105	1154	100	105	NA	90
2	TA-04	138	120	138	100	120	NA	NA
2	TA-05	90	20	90	100	20	NA	NA
2	TA-06	100	30	100	100	30	NA	NA
					Totals	275	0	90

Table 18: Summary of Impacts to Planted Tree Areas and Monoculture Thickets for Alternative 3

Project Alternative	Tree Area ID	Total Area (m^2)	Number of Stems in Polygon	Total Area Impacted by Project (m^2)	Total Area Impacted by Project (%)	Approximate Number of Stems Being Removed	Recommended Number of Replacement Trees (City of Mississauga)	Recommended Number of Replacement Trees (TRCA)
3	TA-01	467	75	0	0	0	NA	NA
3	TA-02	506	44	0	0	0	NA	NA
3	TA-03	1154	105	1154	100	105	NA	90
3	TA-04	138	120	138	100	120	NA	NA
3	TA-05	90	20	90	100	20	NA	NA
3	TA-06	100	30	100	100	30	NA	NA
					Totals	275	0	90

Table 19: Summary of Impacts to Planted Tree Areas and Monoculture Thickets for Alternative 4

Project Alternative	Tree Area ID	Total Area (m^2)	Number of Stems in Polygon	Total Area Impacted by Project (m^2)	Total Area Impacted by Project (%)	Approximate Number of Stems Being Removed	Recommended Number of Replacement Trees (City of Mississauga)	Recommended Number of Replacement Trees (TRCA)
4	TA-01	467	75	0	0	0	NA	NA
4	TA-02	506	44	0	0	0	NA	NA
4	TA-03	1154	105	0	0	0	NA	0
4	TA-04	138	120	0	0	0	NA	NA
4	TA-05	90	20	0	0	0	NA	NA
4	TA-06	100	30	0	0	0	NA	NA
					Totals	0	0	0

Table 20: Summary of Impacts to Planted Tree Areas and Monoculture Thickets for Alternative 5

Project Alternative	Tree Area ID	Total Area (m2)	Number of Stems in Polygon	Total Area Impacted by Project (m^2)	Total Area Impacted by Project (%)	Approximate Number of Stems Being Removed	Recommended Number of Replacement Trees (City of Mississauga)	Recommended Number of Replacement Trees (TRCA)
5	TA-01	467	75	0	0	0	NA	NA
5	TA-02	506	44	0	0	0	NA	NA
5	TA-03	1154	105	0	0	0	NA	0
5	TA-04	138	120	0	0	0	NA	NA
5	TA-05	90	20	0	0	0	NA	NA
5	TA-06	100	30	0	0	0	NA	NA
					Totals	0	0	0

5. Tree Removal, Preservation and Maintenance Recommendations

There are many social, economic and environmental benefits of trees including aesthetics, increased property values, improved air quality, as well as food and shelter for resident wildlife. As per the City's *Tree Preservation & Protection Standards* (2017), damage should be minimized to existing trees within development limits wherever feasible, as a priority. The tree inventory and assessment results for each tree are summarized in **Appendix A1,** whilst the Tree Management Recommendations for each respective Project Alternative are given in **Appendices B3-B6, C3-C9, D3-D9, E3-E6** and **F3-F9.** The recommendations and requirements in the following sections shall apply to the preferred Alternative that is to be used to deliver the Project.

5.1 Tree Removal

It is recommended that a Certified Arborist be retained during tree removal operations in order to ensure that standardized arboricultural techniques are employed, prior to and during the proposed work activities, and to confirm the need to remove or protect additional trees in proximity to the Impact Area. Additionally, it is recommended that a Certified Arborist return at the conclusion of construction to assess the health of trees that were protected during construction and identify opportunities for mitigation should any trees display signs of stress (i.e., falling limbs, declining health, etc.).

5.2 Tree Preservation

It is recommended that a Certified Arborist be retained to regularly monitor the Project's construction activities in order to ensure that all trees that are recommended for protection and retention are being maintained adequately, in relation to standard arboricultural practices. Additionally, no grading, excavation or restoration-related activities are to occur within the TPZ of any protected or retained trees, if it cannot be avoided, without the supervision of a Certified Arborist. Should the limits of the proposed excavation areas change, a Certified Arborist will be retained to review trees with TPZs intersecting new excavation area limits in order to determine whether trees shall be recommended for removal, injury and protection or retention.

5.3 Tree Protection Recommendations

The following subsections outline tree protection measure recommendations that will further reduce the potential for negative impacts to preserved trees. Furthermore, the following subsections provide standard protection recommendations that shall apply to trees that require tree protection fencing for protection during construction activities. Notwithstanding this, recommendations for the timing of vegetation clearing apply to the site in general.

5.3.1 Tree Protection Fencing and Ground Compaction Mitigation

Tree protection fencing shall be installed around trees recommended for protection prior to the any work activities taking place within the Study Area. The tree protection fencing shall be installed in accordance with industry best practices. The tree protection fencing around the TPZ shall be installed with orange safety fencing and framed with lumber at 2x4 dimensions. Alternatively, steel T-bars can also be used to erect the orange safety fencing. All tree protection fencing shall remain in place prior to any construction activity and in good repair until construction is complete.

It is recommended that Tree protection signage shall be. As per the City's *Tree Preservation & Protection Standards,* TPZ signage must be installed by the contractor on the tree protection fencing to clearly delineate tree protection zones. Tree protection signs shall be 40.64 cm (16") x 60.96 cm (24"), made of white gator board and outline the following:

- That no grade change, storage of materials or equipment is permitted within the TPZ;
- Contact information of the municipal forestry department; and
- That the tree protection barrier must remain in good condition and not be removed or altered without authorization by the City

For any trees recommended for preservation there shall be no storage or movement of equipment or hoarding of materials within the TPZ. If work must be completed within the TPZ, 10 to 15 cm (4" to 6") of mulch shall be spread over the area which is to be worked upon. Additionally, sheets of 2 cm (0.75") thick plywood (minimum) or steel plating shall be applied on the mulch in order to help distribute the weight of the heavy equipment to avoid soil compaction. After construction, these measures shall be removed to allow proper aeration and water infiltration to the soil. This shall include removing the bulk of mulch so that only 5 to 10 cm (2" to 4") remain. It is recommended that a Certified Arborist be on-site when work that could impact trees is required within the TPZ of by-law trees identified for preservation.

5.3.2 Vegetation Clearing and Management

Vegetation removal, including tree removal will be limited to the specified activity areas and shall not commence until required permits and approvals are obtained.

Clearing of vegetation outside of the breeding bird season is recommended to reduce potential impacts to migratory birds and avoid contravention of the *Migratory Birds Convention Act*. Searching for nests by a qualified biologist are not recommended within complex habitats, as the ability to detect nests is low while the risk of disturbance to active nests is high. This disturbance increases the risk of nest predation or abandonment by adults. Nests searches may be completed during the nesting period (April 1st to August 31st) by a qualified biologist within 'simple habitats' (ECCC 2018) which refer to habitats that contain few likely nesting spots or a small community of migratory birds. Clearing in simple habitats during the nesting season can only occur if a qualified biologist has confirmed it would not affect the nest or young of a protected species.

Where works are proposed within a TPZ of a tree proposed for preservation, clearing of vegetation shall be performed manually to reduce soil compaction and mechanical damage to the tree.

5.3.3 Branch Pruning

Where branches are likely to be damaged during construction, they shall be pruned accordingly, prior to construction activities, in order to avoid unnecessary damage to the tree.

Pruning should be completed in a three-step process. The first step of this process is to cut through approximately one-third of the branch's diameter from the bottom side. The second step of the process is to remove the majority of the branch and its lateral weight, through proceeding to make a cut on the top side, which is to be approximately half the diameter from the cut on the bottom side. This cut is to be made approximately 2.5 cm to 5 cm (1-2") further out on the branch from the first cut in order to reduce the risk of tearing. Once the weight (majority of the branch) has been removed, the final step of the process is to remove the remaining stub by completing the final cut at the branch bark ridge. This final cut must be a smooth surface with no jagged edges or torn bark.

5.3.4 Roots

Root damage shall be minimized by restricting equipment in the vicinity of the existing TPZ and limiting equipment within the construction limits. This will help minimize damage if there is any excavation in the areas of a preserved tree. It is critical to avoid damage to the structural root plate in order to prevent affecting tree stability and thus creating a hazard tree. In general, most of the fibrous roots of the tree are contained in the top 30 cm (11.75”) of the soil and may easily be severed during excavation, whilst structural roots are located deeper. Hand digging, low pressure hydro-vac or air spade exploratory digging will aid in determining the damage of the tree root system. As mentioned earlier, all opportunities to avoid root and grade damage within the TPZ shall be taken – this shall include limiting machinery within the TPZ as much as possible and the employment of horizontal hoarding where work is proposed within the TPZ of a tree recommended for preservation.

Any roots that are severed during construction shall be cut cleanly to minimize decay and entry points for disease. If roots will be exposed for more than a few hours, mulch, wet burlap or soil shall be applied as soon as possible and watered regularly to prevent roots from drying-out, under the supervision of a Certified Arborist.

5.3.5 Excavation

- Methods of excavation within TPZ of trees proposed for protection or retention shall include those which cause the least harm to the tree, such as pneumatic or hydraulic excavation. These methods include tools which use high-pressure air or water to remove the soil around the roots without damaging the larger roots.
- Fill within the TPZ shall not be permitted unless it is mitigated in a way that maintains air and water availability for roots.
- All grade changes within and adjacent to TPZs shall be undertaken in accordance with the previously-specified tree protection guidelines.
- Access routes shall be established away from the TPZ. The existing grades within the TPZ shall not be disturbed to avoid damage to trees and soil compaction.

6. Summary and Recommendations

A total of 649 trees were inventoried and assessed within and outside the Preliminary Tree Inventory Study Area. Based on the separate tree impact analyses for each individual Project Alternative, varying levels of impact from the Project were measured and quantified:

- **Alternative 1** had 370 trees that were located directly within the Alternative 1 Impact Area, 120 trees were located within the Alternative 1 Buffer Area, 144 trees that were located Outside of the Alternative 1 Study Area, and 15 trees that were located outside of the Preliminary Tree Inventory Study Area. Furthermore, based on the results of the tree impact analysis it is recommended that 402 trees be removed in order to accommodate the construction of the Project, based on Alternative 1. The remaining 240 trees are to be protected or preserved (17 for protection with injury, 24 for protection with minor injury, 55 for protection without injury and 151 for retention without injury). A total of 2,221 replacement trees are required to compensate for tree removals within the City of Mississauga (289) and TRCA regulated lands (313). Furthermore, approximately 90 tree saplings within densely planted areas will require removal for the Project, per the Alternative 1 Impact Area, which will require an additional 90 compensation trees. Lastly, a monetary value of $316,231.41 is required to replace City-owned trees that require removal, based on the Trunk Formula Method.

- **Alternative 2** had 410 trees that were located directly within the Alternative 2 Impact Area, 134 trees were located within the Alternative 2 Buffer Area, 91 trees that were located Outside of the Alternative 1 Study Area, and 14 trees that were located outside of the Preliminary Tree Inventory Study Area. Furthermore, based on the results of the tree impact analysis it is recommended that 445 trees be removed in order to accommodate the construction of the Project, based on Alternative 2. The remaining 204 trees are to be protected or preserved (18 for protection with injury, 27 for protection with minor injury, 87 for protection without injury and 72 for retention without injury). A total of 2,253 replacement trees are required to compensate for tree removals within the City of Mississauga (307) and TRCA regulated lands (313). Furthermore, approximately 90 tree saplings within densely planted areas will require removal for the Project, per the Alternative 2 Impact Area, which will require an additional 90 compensation trees. Lastly, a monetary value of $351,141.39 is required to replace City-owned trees that require removal, based on the Trunk Formula Method.

- **Alternative 3** had 412 trees that were located directly within the Alternative 3 Impact Area, 133 trees were located within the Alternative 3 Buffer Area, 90 trees that were located Outside of the Alternative 3 Study Area, and 14 trees that were located outside of the Preliminary Tree Inventory Study Area. Furthermore, based on the results of the tree impact analysis it is recommended that 446 trees be removed in order to accommodate the construction of the Project, based on Alternative 3. The remaining 203 trees are to be protected or preserved (17 for protection with injury, 24 for protection with minor injury, 91 for protection without injury and 71 for retention without injury). A total of 2,256 replacement trees are required to compensate for tree removals within the City of Mississauga (308) and TRCA regulated lands (313). Furthermore, approximately 90 tree saplings within densely planted areas will require removal for the Project, per the Alternative 3 Impact Area, which will require an additional 90 compensation trees. Lastly, a monetary value of $351,170.96 is required to replace City-owned trees that require removal, based on the Trunk Formula Method.

- **Alternative 4** had 44 trees that were located directly within the Alternative 4 Impact Area, 23 trees were located within the Alternative 4 Buffer Area, 540 trees that were located Outside of the Alternative 4 Study Area, and 42 trees that were located outside of the Preliminary Tree Inventory Study Area.

Furthermore, based on the results of the tree impact analysis it is recommended that 120 trees be removed in order to accommodate the construction of the Project, based on Alternative 4. The remaining 529 trees are to be protected or preserved (2 for protection with injury, 4 for protection with minor injury, 45 for protection without injury and 478 for retention without injury). A total of 43 replacement trees are required to compensate for tree removals within the City of Mississauga. Lastly, a monetary value of $50,440.45 is required to replace City-owned trees that require removal, based on the Trunk Formula Method.

- **Alternative 5** had 97 trees that were located directly within the Alternative 5 Impact Area, 64 trees were located within the Alternative 5 Buffer Area, 464 trees that were located Outside of the Alternative 5 Study Area, and 24 trees that were located outside of the Preliminary Tree Inventory Study Area. Furthermore, based on the results of the tree impact analysis it is recommended that 172 trees be removed in order to accommodate the construction of the Project, based on Alternative 5. The remaining 477 trees are to be protected or preserved (8 for protection with injury, 13 for protection with minor injury, 64 for protection without injury and 392 for retention without injury). A total of 257 replacement trees are required to compensate for tree removals within the City of Mississauga (67) and TRCA regulated lands (15). Lastly, a monetary value of $104,739.20 is required to replace City-owned trees that require removal, based on the Trunk Formula Method.

In regard to the trees that are identified for removal prior to construction operations commencing, as the per the preferred Alternative to deliver the Project, it is recommended that a Certified Arborist be retained during tree removal operations to ensure proper arboricultural techniques are employed prior to and during proposed activities and to confirm the need to remove or preserve trees within close proximity to the proposed Impact Area. It is also strongly recommended that a Certified Arborist supervise any root pruning that needs to be done to trees recommended for injury or minor injury. Additionally, it is recommended that a Certified Arborist return at the conclusion of construction to assess the health of preserved trees after construction is complete and to mitigate risk associated with falling limbs and declining health from potentially stressful conditions.

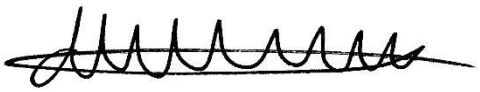
Tree protection fencing must be installed prior to initiation of the work. Tree protection fencing shall be installed to protect trees recommended for protection with injury, protection with minor injury, or protection without injury (i.e., where trees are not being impacted but are within the Buffer Area or 2 m outside of the Buffer Area) The installation of tree protection fencing will reduce the potential for negative impacts including soil and root compaction as well as the potential for mechanical damage to trunks or branches. Lastly, it is recommended that any necessary pruning be conducted prior to tree removal by a Certified Arborist or trained professional with adequate arboricultural experience, in order to ensure that trees marked for preservation do not experience unnecessary stress or damage.

7. Certification

I certify that all the statements of fact in this assessment are true, complete, and correct to the best of my knowledge and belief, and that they are made in good faith.

AECOM Canada Ltd.

Report Certified By:



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Appendix A1

Tree Assessment Results

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
1	Honey-Locust	Gleditsia triacanthos	31					31	9	10	Good	ST, DW, FS, FC, WC, RP	2.4	City of Mississauga (Road ROW)	No	No	2354.52
2	Maple - Norway	Acer platanoides	13					13	4	0	Good	LT, DC, SF, RP	2.4	City of Mississauga (Park)	No	Yes	695.75
3	Maple - Norway	Acer platanoides	16					16	4	10	Good	LT, NST, ER, BSD, WNC, RP	2.4	City of Mississauga (Park)	No	Yes	884.40
4	Maple - Norway	Acer platanoides	18					18	4	5	Good	ER, GR, PP, WC, DW, RP	2.4	City of Mississauga (Park)	No	Yes	1031.85
5	Honey-Locust	Gleditsia triacanthos	17					17	5	5	Good	LT, ER, FS, RP	2.4	City of Mississauga (Park)	No	Yes	940.20
6	Maple - Silver	Acer saccharinum	25					25	9	0	Good	PTH, TW, WC, PF, FK@2M, RP	3.6	City of Mississauga (Park)	No	Yes	1463.90
7	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	FK@2M, MB, FS, UW, RP	1.5	City of Mississauga (Road ROW)	No	No	1173.81
8	Honey-Locust	Gleditsia triacanthos	15					15	7	5	Good	MB, PF, WNC, DW, RP	1.5	City of Mississauga (Road ROW)	No	No	805.50
9	Maple - Silver	Acer saccharinum	62					62	11	15	Good	FK@2M, PP, WNC, MB, PB, ST, RP	8.4	City of Mississauga (Park)	No	Yes	7622.86
10	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	MB, DW, FS, RP	2.4	City of Mississauga (Park)	No	Yes	805.50
11	Apple sp.	Malus sp.	25					25	6	20	Fair	LN (M), BSD, TW, WNC, ST, SC, 1SD, UC, PP, RP	3.6	City of Mississauga (Park)	No	Yes	1055.75
12	Maple - Norway	Acer platanoides	10					10	2	15	Good	ER, DC, RP	2.4	City of Mississauga (Park)	No	Yes	546.13
13	Maple - Norway	Acer platanoides	10					10	3	20	Fair	BSD, MB, RP	2.4	City of Mississauga (Park)	No	Yes	423.25
14	Maple - Norway	Acer platanoides	14					14	4	10	Good	PTL, LN (L), TW, PF, WNC, ER, RP	2.4	City of Mississauga (Park)	No	Yes	754.29
15	Oak - Red	Quercus rubra	13					13	4	0	Good	ER, DC, SF, PF, RP	2.4	City of Mississauga (Park)	No	Yes	843.92
16	Serviceberry sp.	Amelanchier sp.	4	3	2	2	2	6	1	10	Fair	TK7, RP	2.4	City of Mississauga (Park)	No	Yes	226.61
17	Zelkova - Japanese	Zelkova serrata	4					4	1	10	Fair	FS, SL, ML, RP	2.4	City of Mississauga (Park)	No	Yes	278.53
18	Serviceberry sp.	Amelanchier sp.	2					2	1	20	Fair	PTL, RH	2.4	City of Mississauga (Park)	No	Yes	170.47
19	Oak - English	Quercus robur	12					12	4	0	Good	BSD, WNC, ER, PF, RH, RP, DC, SF	2.4	City of Mississauga (Park)	No	Yes	762.24
20	Maple - Norway	Acer platanoides	17					17	5	5	Good	ER, GR, NST, DC	2.4	City of Mississauga (Park)	No	Yes	955.96
21	Maple - Norway	Acer platanoides	15					15	4	10	Good	ER, GR, DW, RP	2.4	City of Mississauga (Park)	No	Yes	817.18
22	Honey-Locust	Gleditsia triacanthos	18					18	6	5	Good	PP, WC, FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No	1013.86
23	Honey-Locust	Gleditsia triacanthos	17					17	7	5	Good	ER, ETB, PP, WC, FS, DW, RP	1.5	Peel District School Board	No	No	940.20
24	Honey-Locust	Gleditsia triacanthos	17					17	6	10	Good	ETB, SB, MB, FS, DW, RP	1.5	Peel District School Board	No	No	940.20
25	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	ER, MB, TW, WNC, PP, FS, RP	1.5	Peel District School Board	No	No	1173.81
26	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, SF, RP	2.4	City of Mississauga (Park)	No	Yes	247.92
27	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes	247.92
28	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes	247.92
29	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	264.68
30	Yellow-Wood	Cladrastis kentukea	5					5	1	0	Fair	LT, PTL, PP, SL	2.4	City of Mississauga (Park)	No	Yes	241.00
31	Yellow-Wood	Cladrastis kentukea	6					6	1	10	Fair	LT, SB, RH, MB, FS, TW, WNC, RP	2.4	City of Mississauga (Park)	No	Yes	259.21
32	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, VC, DC, SF	1.5	Peel District School Board	No	No	0.00
33	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No	0.00
34	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, NST, DC, SF	1.5	Peel District School Board	No	No	0.00
35	Honey-Locust	Gleditsia triacanthos	18					18	7	10	Good	FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No	1013.86
36	Yellow-Wood	Cladrastis kentukea	3	2	2	1		4	1	0	Fair	PTL, ML, FS, RP	2.4	City of Mississauga (Park)	No	Yes	226.09
37	Yellow-Wood	Cladrastis kentukea	4	3	2	2		6	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga (Park)	No	Yes	259.21
38	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes	264.68
39	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	264.68
40	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes	264.68
41	Yellow-Wood	Cladrastis kentukea	3					3	2	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes	214.50
42	Yellow-Wood	Cladrastis kentukea	6					6	1	5	Fair	ML, FS,,RP	2.4	City of Mississauga (Park)	No	Yes	259.21
43	Honey-Locust	Gleditsia triacanthos	11					11	5	10	Good	LT, MB, DC	1.5	Peel District School Board	No	No	586.62
44	Spruce - Colorado	Picea pungens	12					12	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No	0.00
45	Spruce - Colorado	Picea pungens	10					10	2	30	Fair	VC, LT, SL, CD	1.5	Peel District School Board	No	No	0.00
46	Honey-Locust	Gleditsia triacanthos	19					19	7	5	Good	ER, ST, DW, FS, RP	1.5	Peel District School Board	No	No	1091.73
47	Maple - Norway	Acer platanoides	5					5	2	10	Fair	1SD, LS, GTF	1.2	Peel District School Board	No	No	297.21
48	Elm - Siberian	Ulmus pumila	20	7				21	7	15	Good	TK2, GTF, FS, DW, SF, RP	1.8	Peel District School Board	No	No	716.62
49	Maple - Manitoba	Acer negundo	12	9	6			16	5	25	Fair	TK3, GTF, LN (L), FS, CT, 1SD, UC, PP, RP	1.5	Peel District School Board	No	No	312.27
50	Maple - Manitoba	Acer negundo	17	10	10			22	9	15	Good	TK3, GTF, RH, CT, RP	1.8	Peel District School Board	No	No	679.22
51	Sweetgum	Liquidambar styraciflua	6					6	1	40	Poor	SL, PP, RH, SB	2.4	City of Mississauga (Park)	No	Yes	162.16
52	Sweetgum	Liquidambar styraciflua	5					5	1	30	Fair	RH, SL	2.4	City of Mississauga (Park)	No	Yes	270.95
53	Sweetgum	Liquidambar styraciflua	4					4	1	25	Fair	LT, SL, RH	2.4	City of Mississauga (Park)	No	Yes	257.60
54	Yellow-Wood	Cladrastis kentukea	4					4	1	5	Fair	LT, CT, MB, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes	226.09
55	Sweetgum	Liquidambar styraciflua	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	270.95
56	Spruce - Colorado	Picea pungens	11					11	3	5	Good	LT, DC, ML, RP	2.4	City of Mississauga (Park)	No	Yes	0.00
57	Sweetgum	Liquidambar styraciflua	4					4	0	100	Dead	SB, DW, RM	0	City of Mississauga (Park)	No	Yes	41.55
58	Spruce - Colorado	Picea pungens	9					9	2	5	Good	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes	0.00
59	Spruce - Colorado	Picea pungens	8					8	2	15	Fair	PTL, GC, SF, RF	2.4	City of Mississauga (Park)	No	Yes	0.00
60	Sweetgum	Liquidambar styraciflua	5					5	1	15	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes	270.95
61	Sweetgum	Liquidambar styraciflua	5					5	1	35	Fair	LT, PTL, 1SD, RP	2.4	City of Mississauga (Park)	No	Yes	270.95
62	Spruce - Colorado	Picea pungens	8					8	2	25	Fair	GC, 1SD, PL, SL, DW	2.4	City of Mississauga (Park)	No	Yes	0.00
63	Maple - Manitoba	Acer negundo	27					27	10	20	Fair	GTF, DE, PP, 1SD, UC, RP	3.6	City of Mississauga (Park)	No	Yes	756.48
64	Apple sp.	Malus sp.	13					13	5	20	Fair	LN (M), SB, ST, SC, 1SD, UC	2.4	City of Mississauga (Park)	No	Yes	413.39
65	Honey-Locust	Gleditsia triacanthos	51					51	13	15	Good	LT, BSD, WNC, FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes	5806.14
66	Oak - Red	Quercus rubra	8					8	3	10	Fair	TW, WNC, DC	2.4	City of Mississauga (Park)	No	Yes	443.85
67	Oak - Red	Quercus rubra	7					7	3	10	Fair	ML, LT, RP	2.4	City of Mississauga (Park)	No	Yes	413.82

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
68	Spruce - Colorado	Picea pungens	9					9	3	0	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes	442.87
69	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	327.80
70	Kentucky Coffeetree	Gymnocladus dioicus	4	3				5	1	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes	327.80
71	Oak - Red	Quercus rubra	3					3	1	20	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	333.75
72	Oak - Red	Quercus rubra	4					4	1	5	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	347.76
73	Oak - Red	Quercus rubra	3					3	1	25	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	333.75
74	Spruce - Colorado	Picea pungens	5					5	2	45	Poor	LT, CD, DW, RM	2.4	City of Mississauga (Park)	No	Yes	190.63
75	Maple - Freeman	Acer x freemanii	3	3	2			5	3	25	Poor	TK3, PP, GTF, RM	2.4	City of Mississauga (Park)	No	Yes	158.60
76	Spruce - Colorado	Picea pungens	5					5	2	15	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes	337.69
77	Maple - Freeman	Acer x freemanii	43					43	12	10	Good	PP, TW, WNC, FK@5M, DW, SB, RP	6	City of Mississauga (Park)	No	Yes	4143.23
78	Spruce - White	Picea glauca	5					5	3	25	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes	320.55
79	Spruce - White	Picea glauca	9					9	4	15	Fair	LT, ML, PL, RP	2.4	City of Mississauga (Park)	No	Yes	424.35
80	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes	617.49
81	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	FK@2M, RP, LT	2.4	City of Mississauga (Park)	No	Yes	327.80
82	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, ML	2.4	City of Mississauga (Park)	No	Yes	327.80
83	Kentucky Coffeetree	Gymnocladus dioicus	5	2				5	2	10	Fair	TK2, LT, RP	2.4	City of Mississauga (Park)	No	Yes	327.80
84	Honey-Locust	Gleditsia triacanthos	44					44	13	10	Good	FK@2M, CT, DW, FS, RP	6	City of Mississauga (Park)	No	Yes	4406.55
85	Cherry - Sweet	Prunus avium	24	23	14	11		38	6	25	Fair	TK4, PP, WNC, FS, SC, RP	2.4	Private	No	No	2267.01
86	Apple sp.	Malus sp.	12					12	4	10	Good	PP, LN (L), CT, SC, DC, RP	1.5	Private	No	No	487.96
87	Oak - Swamp White	Quercus bicolor	5					5	1	10	Fair	LT, SL, SG	2.4	City of Mississauga (Park)	No	Yes	327.80
88	Oak - Swamp White	Quercus bicolor	6					6	1	15	Fair	LT, SB, SF	2.4	City of Mississauga (Park)	No	Yes	348.19
89	Spruce - Colorado	Picea pungens	28					28	5	10	Good	LT, PP, DC, SF	1.8	Private	No	No	2275.19
90	Horsechestnut - European	Aesculus hippocastanum	32					32	9	5	Good	LT, MB, DC, SF	2.4	Private	No	No	2395.77
91	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes	327.80
92	Oak - Swamp White	Quercus bicolor	4					4	1	10	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes	311.12
93	Spruce - Colorado	Picea pungens	12					12	3	15	Good	LT, 1SD, NST	2.4	City of Mississauga (Park)	No	Yes	724.13
94	Maple - Norway	Acer platanoides	7					7	1	0	Fair	GTF, BR2, DW, SL	2.4	City of Mississauga (Park)	No	Yes	337.54
95	Maple - Manitoba	Acer negundo	12	12	11	9		22	6	10	Good	TK4, FS, GTF, FS, RP	3.6	City of Mississauga (Park)	No	Yes	679.22
96	Maple - Norway	Acer platanoides	7	5				9	1	15	Fair	TK2, GTF, RP	2.4	City of Mississauga (Park)	No	Yes	391.32
97	Spruce - Colorado	Picea pungens	11					11	3	10	Good	LT, ER, SL, SF	2.4	City of Mississauga (Park)	No	Yes	668.38
98	Mulberry - White	Morus alba	19	15	14	13	8	32	7	15	Fair	TK5, GTF, PP, WNC, TW, FS, RP	4.8	City of Mississauga (Park)	No	Yes	1818.03
99	Spruce - Colorado	Picea pungens	10					10	2	0	Good	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes	617.49
100	Apple sp.	Malus sp.	27	24	19	17		44	9	25	Fair	TK4, PP, ST, SC, FS, SN, RH, RP	6	City of Mississauga (Park)	No	Yes	2902.52
101	Apple sp.	Malus sp.	4	3	3	3		7	2	10	Fair	TK4, FS, GTF, RP	2.4	City of Mississauga (Park)	No	Yes	244.35
102	Sweetgum	Liquidambar styraciflua	4					4	1	30	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes	257.60
103	Sweetgum	Liquidambar styraciflua	6					6	1	15	Fair	LT, SL, PP	2.4	City of Mississauga (Park)	No	Yes	287.26
104	Kentucky Coffeetree	Gymnocladus dioicus	5					5	2	10	Good	LT, ML	2.4	City of Mississauga (Park)	No	Yes	422.97
105	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes	247.92
106	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	DC, SF, FS, RP	1.5	City of Mississauga (Road ROW)	No	No	805.50
107	Honey-Locust	Gleditsia triacanthos	59					59	13	10	Good	FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes	7658.23
108	Spruce - Colorado	Picea pungens	9					9	3	5	Good	LT, ER, SF	2.4	City of Mississauga (Park)	No	Yes	571.44
109	Spruce - White	Picea glauca	9					9	3	0	Good	ER, LT, SF	2.4	City of Mississauga (Park)	No	Yes	547.54
110	Mulberry - White	Morus alba	7	4				8	3	25	Fair	TK2, GTF, LN (L), ML, RP	2.4	City of Mississauga (Park)	No	Yes	299.63
111	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, SF	2.4	City of Mississauga (Park)	No	Yes	617.49
112	Oak - Red	Quercus rubra	7					7	2	15	Fair	LT, ER, FK@3M, ML, RP	2.4	City of Mississauga (Park)	No	Yes	413.82
113	Oak - Red	Quercus rubra	6					6	2	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes	387.80
114	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	PP, TK4, RP	2.4	City of Mississauga (Park)	No	Yes	170.47
115	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	15	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes	170.47
116	Oak - Red	Quercus rubra	8					8	2	0	Fair	ER, LT, PL, DC, 1SD	2.4	City of Mississauga (Park)	No	Yes	443.85
117	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes	170.47
118	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	15	Fair	TK3, SB, RP	2.4	City of Mississauga (Park)	No	Yes	170.47
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	3	3	3	3		6	1	5	Fair	LT, TW, WNC, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes	305.64
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	10	Fair	BSD, LN (L), WNC, LT, SF	2.4	City of Mississauga (Park)	No	Yes	305.64
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes	305.64
122	Linden - Little-Leaf	Tilia cordata	3					3	1	15	Fair	LT, BR1, ML, RP	2.4	City of Mississauga (Park)	No	Yes	247.92
123	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes	247.92
124	Linden - Little-Leaf	Tilia cordata	4					4	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes	260.38
125	Pine - Austrian	Pinus nigra	37					37	7	15	Good	TW, WNC, CT, AD (sapsucker), LN (L), FS, RP	4.8	City of Mississauga (Park)	No	Yes	3041.61
126	Sweetgum	Liquidambar styraciflua	4					4	4	5	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes	257.60
127	Cherry - Sweet	Prunus avium	5	4				6	2	10	Fair	TK2, 1SD, FS, RP	2.4	City of Mississauga (Park)	No	Yes	213.99
128	Spruce - Colorado	Picea pungens	7					7	2	10	Fair	LT, FS, SF, RP	2.4	City of Mississauga (Park)	No	Yes	382.76
129	Spruce - Colorado	Picea pungens	6					6	2	0	Fair	LT, PL, RP	2.4	City of Mississauga (Park)	No	Yes	358.35
130	Pear sp.	Pyrus sp.	12	10				16	5	25	Fair	TK2, 1SD, UC, DW, LN (L), RP	2.4	City of Mississauga (Park)	No	Yes	414.41
131	Maple - Manitoba	Acer negundo	10	5	5	4	4	13	5	30	Fair	TK5, ST, SC, FS, PP, RP	2.4	City of Mississauga (Park)	No	Yes	230.57
132	Linden - Little-Leaf	Tilia cordata	4	4				6	1	20	Fair	TK2, GTF, LN (L), PP, SC, 1SD, LS	2.4	City of Mississauga (Park)	No	Yes	295.96
133	Spruce - White	Picea glauca	7					7	3	25	Fair	LT, CD, CN, SF	2.4	City of Mississauga (Park)	No	Yes	365.03
134	Spruce - White	Picea glauca	9					9	2	20	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes	424.35

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
135	Spruce - White	Picea glauca	6					6	2	30	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes	340.94
136	Cottonwood - Eastern	Populus deltoides	24	18				30	7	20	Fair	TK2, DW, CD, PB, RP	3.6	City of Mississauga (Park)	No	Yes	1657.43
137	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes	240.06
138	Catalpa - Northern	Catalpa speciosa	4					4	1	10	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes	226.50
139	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes	240.06
140	Oak - English	Quercus robur	55					55	6	10	Good	DC, SL	3.6	City of Mississauga (Road ROW)	No	No	8111.92
141	Maple - Norway	Acer platanoides	47					47	11	20	Fair	ER, GR, MB, PP, WNC, UW, SC	3	City of Mississauga (Road ROW)	No	No	3967.48
142	Spruce - White	Picea glauca	30					30	6	35	Fair	LT, CD, CN, PP, UW, RP	1.8	Private	No	No	1942.38
143	Maple - Silver	Acer saccharinum	61					61	13	15	Good	GC, FK@2M, FK@4M, BR3, PF, 1SD, SC, RP	4.2	City of Mississauga (Road ROW)	No	No	7387.53
144	Maple - Norway	Acer platanoides	62					62	16	15	Good	FK@2M, UW, PP, WC, 1SD	4.2	Private	No	No	8664.70
145	Honey-Locust	Gleditsia triacanthos	6					6	1	15	Fair	LT, SL	1.2	City of Mississauga (Road ROW)	No	No	315.98
146	Pine - Scots	Pinus sylvestris	26					26	5	25	Fair	LT, PTL, DW, AD (sapsucker), RP	1.8	City of Mississauga (Road ROW)	No	No	1043.33
147	Maple - Norway	Acer platanoides	32					32	12	35	Fair	BSD, TW, DE, PB, CD, MB, RP	2.4	City of Mississauga (Road ROW)	No	No	1976.06
148	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, SF	1.5	Private	No	No	850.15
149	Apple sp.	Malus sp.	27					27	5	35	Fair	CT, TW, DE, CD, PP, RP	1.8	Private	No	No	1202.25
150	Mulberry - White	Morus alba	5	5	3			8	3	0	Fair	TK3, PP, SC	1.2	City of Mississauga (Road ROW)	No	No	299.63
151	Spruce - White	Picea glauca	35					35	8	20	Fair	LT, 1SD, UW, PL	2.4	Private	No	No	2544.78
152	Honey-Locust	Gleditsia triacanthos	48					48	8	20	Fair	GC, RH, SC, PP, UW, DW, RP	3	Private	No	No	4015.32
153	Serviceberry sp.	Amelanchier sp.	1	1	1	1	1	2	1	15	Fair	TK6, SB, RP	2.4	City of Mississauga (Park)	No	Yes	170.47
154	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, FS, RP	2.4	City of Mississauga (Park)	No	Yes	170.47
155	Birch - White	Betula papyrifera	25					25	0	100	Dead	DW, RM	0	Private	No	No	175.97
156	Pine - Austrian	Pinus nigra	45					45	10	15	Good	PP, FK@2M, FS, RP	3	City of Mississauga (Road ROW)	No	No	4359.50
157	Juniper - Eastern	Juniperus virginiana	10	7	5			13	3	25	Fair	LS, TK3, DW, 1SD, UC	1.5	City of Mississauga (Road ROW)	No	No	407.67
158	Douglas-Fir	Pseudotsuga menziesii	30					30	6	10	Good	DC, SF	1.8	City of Mississauga (Road ROW)	No	No	2321.74
159	Juniper - Eastern	Juniperus virginiana	12	8	8	5		17	4	45	Poor	TK4, SN, LS, 1SD	1.5	City of Mississauga (Road ROW)	No	No	333.94
160	Douglas-Fir	Pseudotsuga menziesii	19					19	4	25	Fair	1SD, DW, RP	1.5	City of Mississauga (Road ROW)	No	No	866.90
161	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No	117.88
162	Maple - Manitoba	Acer negundo	6					6	1	25	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No	105.67
163	Maple - Manitoba	Acer negundo	2					2	1	10	Fair	SP, GTF	1.2	City of Mississauga (Road ROW)	No	No	75.61
164	Maple - Freeman	Acer x freemanii	4	3				5	1	15	Fair	TK2, SP, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No	280.95
165	Ash - White	Fraxinus americana	4					4	1	10	Fair	SL, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No	187.26
166	Maple - Manitoba	Acer negundo	7	6	5			10	2	10	Fair	TK3, GTF, SL, ML, RP	1.5	City of Mississauga (Road ROW)	No	No	165.77
167	Maple - Manitoba	Acer negundo	10	7				12	4	15	Fair	TK2, MB, ML, FS, ST, RP	1.5	City of Mississauga (Road ROW)	No	No	207.09
168	Ash - White	Fraxinus americana	11	10				15	6	15	Fair	TK2, EAB, PP, SC, RP	1.5	City of Mississauga (Road ROW)	No	No	559.15
169	Cedar - Eastern-White	Thuja occidentalis	15					15	4	0	Good	DC, SF	1.5	Private	No	No	703.51
170	Maple - Manitoba	Acer negundo	10	4				11	4	15	Fair	TK2, GTF, PP, ST, FS, RP	1.5	City of Mississauga (Road ROW)	No	No	185.49
171	Maple - Silver	Acer saccharinum	53					53	14	15	Good	FK@3M, BR2, SN, MB, FS, RP	3.6	Private	No	No	5642.58
172	Juniper - Eastern	Juniperus virginiana	31					31	7	25	Fair	PTL, GC, PL, RP	2.4	Private	No	No	1621.21
173	Juniper - Eastern	Juniperus virginiana	33					33	6	25	Fair	PL, SL, CS, RP	2.4	Private	No	No	1817.34
174	Mountain-Ash - European	Sorbus aucuparia	12	11				16	4	5	Good	TK2, LS, CT	1.5	Private	No	No	735.43
175	Spruce - Colorado	Picea pungens	41					41	5	20	Good	SF, SL, LT	3	City of Mississauga (Road ROW)	No	No	4449.09
176	Maple - Norway	Acer platanoides	58					58	17	15	Good	MB, RH, DW, FS, UW, SN, RP	3.6	City of Mississauga (Road ROW)	No	No	7623.86
177	Maple - Silver	Acer saccharinum	61					61	13	15	Good	FK@4M, SN, PF, NST, UW, RP	4.2	City of Mississauga (Road ROW)	No	No	7387.53
178	Apple sp.	Malus sp.	45					45	9	15	Good	MB, TT, SC, PP, DW, FS, SB, RP	3	City of Mississauga (Road ROW)	No	No	3906.96
179	Apple sp.	Malus sp.	14					14	0	100	Dead	PB, LN (M), DW, RM	0	Private	No	No	72.81
180	Cherry - Sweet	Prunus avium	36					36	9	15	Good	MB, FC, WC, DW, RP	2.4	Private	No	No	2646.72
181	Mulberry - White	Morus alba	25	24	19	17		43	9	15	Good	TK4, ER, PP, DW, FS, RP	3	City of Mississauga (Road ROW)	No	No	4029.57
182	Apple sp.	Malus sp.	20	19				28	0	100	Dead	TK2, DW, DE, PF, RM	0	City of Mississauga (Road ROW)	No	No	206.41
183	Cherry - Sweet	Prunus avium	57					57	9	30	Fair	MB, PP, PF, ST, FS, RP	3.6	Private	No	No	4898.89
184	Spruce - Colorado	Picea pungens	55					55	7	10	Good	SF, LT	3.6	Private	No	No	7706.32
185	Spruce - Colorado	Picea pungens	28					28	5	15	Good	LT, PL, DW, RP	1.8	Private	No	No	2275.19
186	Spruce - Colorado	Picea pungens	29					29	5	10	Good	LT, DC, SF	1.8	Private	No	No	2413.33
187	Spruce - Colorado	Picea pungens	41					41	6	10	Good	LT, SF, DC	3	Private	No	No	4449.09
188	Apple sp.	Malus sp.	17	14	12			25	8	5	Good	TK3, PTL, PP, PC	1.8	City of Mississauga (Road ROW)	No	No	1362.25
189	Apple sp.	Malus sp.	9					9	4	15	Fair	SC, PC	1.2	City of Mississauga (Road ROW)	No	No	289.43
190	Apple sp.	Malus sp.	16	14				21	8	15	Good	TK2, FS, SC, PP, PC, RP	1.8	City of Mississauga (Road ROW)	No	No	1027.81
191	Cherry - Sweet	Prunus avium	23	21				31	7	15	Good	TK2, PB, PP, SC, PC, IB	2.4	Private	No	No	2016.44
192	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	10	Fair	TK3, FS, RP	1.2	City of Mississauga (Road ROW)	No	No	170.47
193	Cedar - Eastern-White	Thuja occidentalis	3	3	2	2		5	1	0	Fair	TK4, PP, VC	1.2	City of Mississauga (Road ROW)	No	No	189.34
194	Mountain-Ash - European	Sorbus aucuparia	7					7	2	5	Fair	DC, SF	1.2	Private	No	No	263.01
195	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, PP	1.5	Private	No	No	920.43
196	Serviceberry sp.	Amelanchier sp.	1					1	1	25	Fair	SP	1.2	City of Mississauga (Road ROW)	No	No	165.20
197	Maple - Manitoba	Acer negundo	23	9	5			25	5	10	Good	TK3, GTF, FK@3M, ETB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No	850.07
198	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP	1.2	City of Mississauga (Road ROW)	No	No	220.91
199	Maple - Norway	Acer platanoides	4	2				4	1	15	Fair	TK2, LS, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No	282.08
200	Maple - Norway	Acer platanoides	7					7	2	10	Fair	FS, GTF, TD, FK2@2M, SF,	1.2	City of Mississauga (Road ROW)	No	No	337.54
201	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP, TK2	1.2	City of Mississauga (Road ROW)	No	No	220.91

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
202	Maple - Manitoba	Acer negundo	18	17	14			28	8	10	Fair	TK3, GTF, ETB, SB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No	808.13
203	Maple - Norway	Acer platanoides	2	1				2	1	25	Fair	TK2, PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No	261.92
204	Maple - Norway	Acer platanoides	8					8	1	30	Fair	PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No	362.75
205	Maple - Manitoba	Acer negundo	14	14	9			22	7	10	Good	TK3, GTF, RH, ST, PP, TD, WNC	1.8	City of Mississauga (Road ROW)	No	No	679.22
206	Cherry - Sweet	Prunus avium	6					6	1	15	Fair	PP, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No	213.99
207	Maple - Manitoba	Acer negundo	4					4	1	20	Fair	GTF, PP, LS, RP	1.2	City of Mississauga (Road ROW)	No	No	86.88
208	Maple - Manitoba	Acer negundo	10	5	4			12	3	25	Poor	TK3, LN(M), GTF, SB, ST, PP, ML, RP	1.5	Private	No	No	116.91
209	Maple - Norway	Acer platanoides	13	12				18	6	20	Fair	GTF, TK2, PP, TD, WNC, ML PB	1.5	City of Mississauga (Road ROW)	No	No	799.69
210	Spruce - Norway	Picea abies	29					29	5	15	Good	PP, 1SD, RP	1.8	City of Mississauga (Road ROW)	No	No	2232.40
211	Maple - Manitoba	Acer negundo	5					5	2	30	Poor	GTF, PP, MB, TD, SB, LS	1.2	City of Mississauga (Road ROW)	No	No	53.82
212	Spruce - Norway	Picea abies	31					31	5	15	Good	SL, SF	2.4	Private	No	No	2504.09
213	Apple sp.	Malus sp.	6	6	6	5		12	2	5	Fair	TK4, FS, RP	1.5	City of Mississauga (Road ROW)	No	No	378.17
214	Apple sp.	Malus sp.	12					12	3	20	Fair	LT, PP, MB, WNC, SC,	1.5	Private	No	No	378.17
215	Cherry - Sweet	Prunus avium	48					48	5	35	Fair	PP, RH, FK@3M, CD, PC, RP	3	Private	No	No	3520.98
216	Spruce - Colorado	Picea pungens	47					47	6	25	Fair	LT, PL, CD, CN	3	Private	No	No	4439.76
217	Mulberry - White	Morus alba	8	7	7	5		14	8	10	Good	TK4, PP, TW, WNC, MB, FS, RP, LT	1.5	City of Mississauga (Road ROW)	No	No	656.01
218	Spruce - White	Picea glauca	27					27	5	15	Good	ER, LT, PP, DC	1.8	Private	No	No	2097.33
219	Cedar - Eastern-White	Thuja occidentalis	8	7	5			12	2	0	Fair	LS, PP, CS	1.5	Private	No	No	401.09
220	Spruce - White	Picea glauca	35					35	9	5	Good	LT, SF, DC, PP, TW, WC, RP	2.4	City of Mississauga (Road ROW)	No	No	3283.58
221	Mulberry - White	Morus alba	7	5				9	4	5	Fair	TK2, LN (L), ST, RP	1.2	City of Mississauga (Road ROW)	No	No	326.52
222	Cherry - Sweet	Prunus avium	20					20	6	10	Good	PB, TW, WNC, MB, RP	1.5	Private	No	No	960.96
223	Maple - Silver	Acer saccharinum	42					42	15	10	Good	LT, FK4@3M, MB, DC, SN, PP, WNC	3	Private	No	No	3643.17
224	Cherry sp.	Prunus sp.	4	3	3			6	2	15	Fair	TK3, ML, RP	1.2	Private	No	No	182.32
225	Cherry sp.	Prunus sp.	7					7	2	10	Fair	1SD, ML, DC	1.2	Private	No	No	199.02
226	Pine - Austrian	Pinus nigra	32					32	9	10	Good	LT, PP, TW, WNC, 1SD, DW, BR3	2.4	City of Mississauga (Road ROW)	No	No	2348.51
227	Pine - Austrian	Pinus nigra	30					30	8	10	Good	LT, LNM, PP, WNC, DW,	1.8	City of Mississauga (Road ROW)	No	No	2099.40
228	Maple - Silver	Acer saccharinum	12	11	10	9	8	23	5	5	Good	TK8, SB, FS, ML, RP	1.8	Private	No	No	1280.22
229	Pine - Austrian	Pinus nigra	27					27	8	10	Good	LT, PP, TW, WNC, 1SD, DW	1.8	Private	No	No	1755.86
230	Spruce - White	Picea glauca	33					33	6	10	Good	DC, SF, PP	4	Private	Yes	No	2958.32
231	Spruce - White	Picea glauca	21					21	0	100	Hazard	DW, PB, HP, R,	0	Private	Yes	No	176.07
232	Maple - Manitoba	Acer negundo	20	19	16	15		35	10	25	Fair	TK4, SB, FS, GTF, PP, UW, SN, CT, VC, RP	6	City of Mississauga (Road ROW)	Yes	No	1222.28
233	Cedar - Eastern-White	Thuja occidentalis	14	16	14			25	5	35	Fair	LT, PP, CS, BR1, TW, WC, WNC, SF, PF, BSD,	3.5	City of Mississauga (Road ROW)	Yes	No	1256.97
234	Maple - Norway	Acer platanoides	12					12	4	10	Good	1SD, UC, LS	3	City of Mississauga (Road ROW)	Yes	No	641.54
235	Maple - Norway	Acer platanoides	19					19	8	10	Good	LN (L), FK@2M, UW, RP	5	City of Mississauga (Road ROW)	Yes	No	1112.08
236	Cedar - Eastern-White	Thuja occidentalis	38					38	6	25	Fair	FK2@2M, SF, PP, SN, DW, ER, IB, LT, CS	4	City of Mississauga (Road ROW)	Yes	No	2714.29
237	Maple - Norway	Acer platanoides	13	10	9			19	7	10	Good	TK3, DW, FS, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No	1112.08
238	Maple - Norway	Acer platanoides	25					25	6	10	Good	GC, FK@2M, UW, RP	4	City of Mississauga (Road ROW)	Yes	No	1684.55
239	Cedar - Eastern-White	Thuja occidentalis	14	14				20	4	15	Good	LT, TK2, CS, IB, PP, WC, SF	3	City of Mississauga (Road ROW)	Yes	No	1105.30
240	Maple - Norway	Acer platanoides	19	14	13			27	7	20	Fair	TK3, FS, 1SD, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No	1480.30
241	Maple - Norway	Acer platanoides	18					18	9	10	Good	UW, LT, PP, DW, RP, FK2@2M, BR1	5.5	City of Mississauga (Road ROW)	Yes	No	1031.85
242	Maple - Norway	Acer platanoides	22					22	6	10	Good	GTF, FK@2M, MB, UW, TW, WNC, DW, RP	4	City of Mississauga (Road ROW)	Yes	No	1378.80
243	Fir - Balsam	Abies balsamea	25					25	6	10	Good	LT, DC, SF	4	Private	Yes	No	1165.13
244	Maple - Norway	Acer platanoides	32					32	13	10	Good	GTF, UW, TW, WC, FK2@3M, DW, PP, MB	7.5	City of Mississauga (Road ROW)	Yes	No	2549.75
245	Maple - Norway	Acer platanoides	43					43	10	70	Poor	LT, GTF, PF, FK3@1.5M, BR3, BSD, WNC, SN, PP, DW, BC, CD, RP, SC	6	City of Mississauga (Park)	Yes	Yes	1898.18
246	Maple - Norway	Acer platanoides	5	5	5	4	4	10	4	50	Poor	RFS, TK7, DW, GTF, UW, FS, WNC, PB, RP,	3	City of Mississauga (Road ROW)	Yes	No	238.93
247	Maple - Norway	Acer platanoides	3					3	2	10	Fair	RFF, GTF, PP	2.4	City of Mississauga (Park)	Yes	Yes	270.32
248	Maple - Norway	Acer platanoides	13	15	10			22	6	20	Poor	GTF, LT, UW, PP, MB, PB, DW, RT, RP	4	City of Mississauga (Road ROW)	Yes	No	603.23
249	Cherry - Sweet	Prunus avium	5					5	1	5	Fair	GTF, SL, LS	2.4	City of Mississauga (Park)	Yes	Yes	197.95
250	Maple - Manitoba	Acer negundo	13	11				17	5	30	Fair	TK2, FS, GTF, LS, RP	3.5	City of Mississauga (Park)	Yes	Yes	343.26
251	Maple - Norway	Acer platanoides	18					18	9	10	Good	LT, RH, PP, UW, CS, LNL, RP	5.5	Private	Yes	No	1031.85
252	Elm - Siberian	Ulmus pumila	61					61	11	10	Good	FK@2M, FK@3M, RH, ST, PF, NST, DC, RP	8.4	City of Mississauga (Park)	Yes	Yes	4795.81
253	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	FK@2M, GTF, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes	117.88
254	Maple - Manitoba	Acer negundo	12					12	4	15	Fair	GTF, CT, SL	3	City of Mississauga (Park)	Yes	Yes	207.09
255	Maple - Manitoba	Acer negundo	16	17	17	11	19	36	13	20	Fair	PF, GTF, SC, ST, SB, PP, DW, WNC, BR2, IB, TK6	7.5	City of Mississauga (Park)	Yes	Yes	1288.96
256	Apple sp.	Malus sp.	30	12				32	7	10	Good	TK2, FK@2M, GTF, SB, 1SD, FS, FK@4M, SC, RP	4.8	City of Mississauga (Park)	Yes	Yes	2087.50
257	Maple - Manitoba	Acer negundo	17	18				25	8	10	Fair	TK2, LNM, ST, SB, RP, MB	5	City of Mississauga	Yes	Yes	658.81
258	Maple - Manitoba	Acer negundo	29					29	6	15	Good	GTF, LN (L), CT, SC, RP	4	City of Mississauga (Park)	Yes	Yes	1111.82
259	Elm - Siberian	Ulmus pumila	45	42				62	8	15	Good	TK2, IB, FS, LN (M), 1SD	8.4	City of Mississauga (Park)	Yes	Yes	4948.78
260	Maple - Norway	Acer platanoides	4	5	5	4	4	10	3	10	Poor	ML, MB, LNL, LS, 1SD, BSD, RFS, TK5, WC	2.5	City of Mississauga	Yes	Yes	238.93
261	Maple - Manitoba	Acer negundo	39	29	20			53	13	25	Fair	TK3, SB, PF, FK@3M, DW, CT, LN (M), RP	7.5	City of Mississauga (Park)	Yes	Yes	2709.84
262	Maple - Norway	Acer platanoides	16					16	6	10	Good	GTF, SB, ETB, LS, PP, FS	4	City of Mississauga (Park)	Yes	Yes	884.40
263	Cottonwood - Eastern	Populus deltoides	78					78	0	100	Hazard	DW, PP, PB, PC, HP, RM	0	City of Mississauga (Park)	Yes	Yes	1651.80
264	Maple - Manitoba	Acer negundo	4	3	3	3	3	7	5	5	Fair	TK8, BSD, TD, RT, RP, MB, CT, LNL	3.5	City of Mississauga	Yes	Yes	117.88
265	Spruce - Colorado	Picea pungens	17					17	3	0	Good	LT, DC, SF	2.5	Private	Yes	No	1075.54
266	Spruce - Colorado	Picea pungens	16					16	3	0	Good	LT, DC, SF	2.5	Private	Yes	No	995.56
267	Maple - Manitoba	Acer negundo	6	4	3	3	3	9	5	10	Fair	TK5, MB, RT, CT, 1SD, LNL, BSD	3.5	City of Mississauga	Yes	Yes	147.93
268	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	758.01

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
269	Spruce - Colorado	Picea pungens	5	5				7	2	0	Fair	LT, RH, TK2, ML, RP	2.4	City of Mississauga	Yes	Yes	382.76
270	Spruce - White	Picea glauca	12					12	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	698.22
271	Maple - Manitoba	Acer negundo	10	7	3	3		13	5	10	Fair	TK4, RT, LNL, LS, 1SD, TW, WC	3.5	City of Mississauga	Yes	Yes	230.57
272	Spruce - White	Picea glauca	10					10	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes	592.99
273	Spruce - White	Picea glauca	10					10	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes	592.99
274	Spruce - White	Picea glauca	12					12	3	5	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	698.22
275	Maple - Manitoba	Acer negundo	9	5	5	5	4	13	5	10	Fair	TK7, MB, RT, LS, CT, ST,	3.5	City of Mississauga	Yes	Yes	230.57
276	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	758.01
277	Spruce - White	Picea glauca	9					9	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	547.54
278	Maple - Manitoba	Acer negundo	8	5	3			10	4	15	Fair	TK3, SB, ST, MB, RT, LS, CT	3	City of Mississauga	Yes	Yes	165.77
279	Maple - Manitoba	Acer negundo	5	3	3	3		7	3	15	Fair	TK3, RT, MB, SB, CT, LS, SC	2.5	City of Mississauga	Yes	Yes	117.88
280	Pine - Eastern White	Pinus strobus	24					24	5	5	Good	LY, DC, SF	3.5	Private	Yes	No	1689.29
281	Pine - Eastern White	Pinus strobus	22					22	4	15	Good	LT, DC, DW, RP	3	Private	Yes	No	1469.26
282	Pine - Eastern White	Pinus strobus	21					21	3	10	Good	LT, SL, SF	2.5	Private	Yes	No	1366.42
283	Walnut - Black	Juglans nigra	5	4				6	3	20	Fair	TK2, RT, FS, CR, SF, LS	2.5	City of Mississauga	Yes	Yes	315.91
284	Pine - Eastern White	Pinus strobus	23					23	5	0	Good	LT, DC, SF	3.5	Private	Yes	No	1576.88
285	Spruce - White	Picea glauca	8					8	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	506.89
286	Spruce - White	Picea glauca	5	4				6	1	10	Fair	LT, TK2, ML, RP, RH	2.4	City of Mississauga	Yes	Yes	340.94
287	Maple - Manitoba	Acer negundo	9					9	5	10	Good	LNL, FK2@2.5M, UC, RP	3.5	City of Mississauga	Yes	Yes	190.87
288	Spruce - White	Picea glauca	8					8	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes	506.89
289	Maple - Manitoba	Acer negundo	4					4	2	15	Fair	LS, SF, LNL, CT, RP	2.4	City of Mississauga	Yes	Yes	86.88
290	Spruce - White	Picea glauca	9					9	2	10	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes	547.54
291	Spruce - White	Picea glauca	7					7	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes	471.01
292	Maple - Manitoba	Acer negundo	4					4	1	30	Fair	LS, FS, RP, CT, SF	2.4	City of Mississauga	Yes	Yes	86.88
293	Spruce - White	Picea glauca	8					8	3	10	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes	506.89
294	Pine - Eastern White	Pinus strobus	7					7	0	100	Dead	DW, RM	0	Private	Yes	No	53.61
295	Pine - Eastern White	Pinus strobus	21					21	5	15	Good	LT, SF	3.5	Private	Yes	No	1366.42
296	Maple - Manitoba	Acer negundo	4	3	4			6	3	5	Fair	LS, TK2, CT, RT	2.5	City of Mississauga	Yes	Yes	105.67
297	Pine - Eastern White	Pinus strobus	19					19	4	5	Good	LT, DC, SF	3	Private	Yes	No	1175.08
298	Pine - Eastern White	Pinus strobus	18					18	3	25	Fair	LT, DC, SF, CD	2.5	Private	Yes	No	842.11
299	Pine - Eastern White	Pinus strobus	20					20	4	10	Fair	FK@2M, LT, ML, RP	3	Private	Yes	No	982.98
300	Pine - Eastern White	Pinus strobus	19					19	3	15	Fair	FK@3M, LT, ML, RP	2.5	Private	Yes	No	910.69
301	Maple - Norway	Acer platanoides	46					46	10	10	Good	LT, FK@4M, MB, DC, RP	6	Private	Yes	No	4917.67
302	Elm - Siberian	Ulmus pumila	6					6	2	15	Fair	GTF, 1SD, UC	2.4	City of Mississauga	Yes	Yes	165.03
303	Olive - Russian	Elaeagnus angustifolia	69					69	18	30	Good	ER, BSD, DC, FK2@2M, BR3, DW, SC, SN, PP, WNC, RP, PB	10	City of Mississauga	Yes	Yes	8717.27
304	Ash - White	Fraxinus americana	7					7	2	35	Fair	ML, EAB, PB, RM	2.4	City of Mississauga	Yes	Yes	245.97
305	Ash - White	Fraxinus americana	5					5	2	65	Poor	EAB, DW, RM	2.4	City of Mississauga	Yes	Yes	114.75
306	Maple - Manitoba	Acer negundo	7	4				8	4	15	Fair	TK2, LS, SF, TD, WC, CT	3	City of Mississauga	Yes	Yes	131.96
307	Maple - Manitoba	Acer negundo	11	8				14	5	10	Good	TK2, MB, SC, RP	3.5	City of Mississauga	Yes	Yes	330.23
308	Maple - Manitoba	Acer negundo	5	3	3			7	4	20	Fair	LS, TK3, SF, CT, PP, WNC, RT	3	City of Mississauga	Yes	Yes	117.88
309	Maple - Manitoba	Acer negundo	17					17	5	5	Good	FK@2M, DC, RP	3.5	City of Mississauga	Yes	Yes	442.92
310	Walnut - Black	Juglans nigra	3					3	1	5	Fair	SL, SF	2.4	City of Mississauga	Yes	Yes	271.20
311	Maple - Manitoba	Acer negundo	7					7	3	20	Poor	LS, SF, LNM, RH, UC, BSD	2.5	City of Mississauga	Yes	Yes	66.54
312	Maple - Sugar	Acer saccharum	14					14	5	5	Good	DC, SF, NST	3.5	City of Mississauga	Yes	Yes	849.32
313	Maple - Manitoba	Acer negundo	13					13	8	10	Good	LT, CT, SB, RP	5	City of Mississauga	Yes	Yes	297.51
314	Maple - Sugar	Acer saccharum	12					12	4	10	Good	DC, SF	3	City of Mississauga	Yes	Yes	721.64
315	Maple - Manitoba	Acer negundo	6	3	2			7	3	20	Fair	TK3, SB, 1SD, LS	2.5	City of Mississauga	Yes	Yes	117.88
316	Maple - Manitoba	Acer negundo	25					25	10	10	Good	GTF, FK2@4M, UC, LNL, MB, RP	6	City of Mississauga	Yes	Yes	850.07
317	Maple - Sugar	Acer saccharum	14					14	5	5	Good	MB, DC	3.5	City of Mississauga	Yes	Yes	849.32
318	Maple - Sugar	Acer saccharum	14					14	5	0	Good	MB, FS, DC, RP	3.5	City of Mississauga	Yes	Yes	849.32
319	Spruce - Colorado	Picea pungens	33					33	6	5	Good	LT, PP, SF	4.8	City of Mississauga	Yes	Yes	3014.36
320	Maple - Sugar	Acer saccharum	13					13	5	5	Good	MB, DC, BR1, FS, RP	3.5	City of Mississauga	Yes	Yes	783.03
321	Maple - Sugar	Acer saccharum	15					15	5	5	Good	DC, MB, FS, RP	3.5	City of Mississauga	Yes	Yes	920.53
322	Maple - Manitoba	Acer negundo	5	3	2	2		6	4	15	Fair	TK4, LS, 1SD, RP, RT	3	City of Mississauga	Yes	Yes	105.67
323	Maple - Norway	Acer platanoides	28					28	10	15	Good	FK2@4M, 1SD, UC, LNL,	6	City of Mississauga	Yes	Yes	2029.33
324	Maple - Manitoba	Acer negundo	3	3	3			5	3	5	Fair	TK3, RT, SB, RFS	2.5	City of Mississauga	Yes	Yes	95.34
325	Maple - Manitoba	Acer negundo	6					6	3	5	Good	RT, SB, RP	2.5	City of Mississauga	Yes	Yes	136.34
326	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	Fair	2.4	City of Mississauga	Yes	Yes	86.88
327	Spruce - White	Picea glauca	13					13	3	0	Good	LT, SF, DC	2.5	City of Mississauga	Yes	Yes	758.01
328	Spruce - White	Picea glauca	13					13	3	5	Good	SF, DC	2.5	City of Mississauga	Yes	Yes	758.01
329	Spruce - White	Picea glauca	14					14	4	0	Good	DC, SF	3	City of Mississauga	Yes	Yes	822.58
330	Maple - Manitoba	Acer negundo	6	5				8	2	10	Fair	TK2, SB, ML, FK@3M, RP, RT	2.4	City of Mississauga	Yes	Yes	131.96
331	Spruce - White	Picea glauca	12					12	3	15	Good	SL, PP, WNC, LS	2.5	City of Mississauga	Yes	Yes	698.22
332	Spruce - White	Picea glauca	10					10	3	10	Good	DC, SF	2.5	City of Mississauga	Yes	Yes	592.99
333	Spruce - White	Picea glauca	9					9	3	15	Good	LS, 1SD, SF	2.5	City of Mississauga	Yes	Yes	547.54
334	Spruce - White	Picea glauca	3					3	1	25	Fair	LS, PL, DW, RP	2.4	City of Mississauga	Yes	Yes	290.89
335	Spruce - White	Picea glauca	5					5	2	10	Fair	DC, SF, LS, PL	2.4	City of Mississauga	Yes	Yes	320.55

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
336	Spruce - White	Picea glauca	6					6	2	25	Fair	LS, PL, CD	2.4	City of Mississauga	Yes	Yes	340.94
337	Maple - Manitoba	Acer negundo	13					13	4	10	Good	ER, FK@3M, ML, RP	3	City of Mississauga	Yes	Yes	297.51
338	Spruce - White	Picea glauca	6					6	2	15	Fair	LS, DC, FS, SF	2.4	City of Mississauga	Yes	Yes	340.94
339	Maple - Norway	Acer platanoides	25					25	9	10	Good	CS, 1SD, UC, PP	5.5	City of Mississauga	Yes	Yes	1684.55
340	Cedar - Eastern-White	Thuja occidentalis	5	4				6	1	10	Fair	TK2, ML, RP	2.4	City of Mississauga	Yes	Yes	208.92
341	Apple sp.	Malus sp.	15	15	10			23	4	30	Fair	LS, SC, MB, CT, TK3, DW	3.6	City of Mississauga	Yes	Yes	920.51
342	Alder - European	Alnus glutinosa	7					7	2	20	Fair	CT, SL, DE (canker)	2.4	City of Mississauga	Yes	Yes	225.00
343	Maple - Norway	Acer platanoides	18					18	8	10	Good	LT, SN, SF	5	City of Mississauga	Yes	Yes	1031.85
344	Maple - Norway	Acer platanoides	12					12	3	20	Fair	LS, SL, FK2@5M, IB	2.5	City of Mississauga	Yes	Yes	497.19
345	Walnut - Black	Juglans nigra	16					16	5	25	Fair	LN (L), CT, FK@6M, 1SD, RP	3.5	City of Mississauga	Yes	Yes	680.19
346	Maple - Norway	Acer platanoides	12					12	3	100	Dead	GTF, Dead	0	City of Mississauga	Yes	Yes	80.19
347	Maple - Manitoba	Acer negundo	18					18	4	15	Good	TOB, LN (L), CT, 1SD	3	City of Mississauga	Yes	Yes	485.33
348	Walnut - Black	Juglans nigra	3					3	2	25	Fair	SP, SL, LS, CT	2.4	City of Mississauga	Yes	Yes	271.20
349	Maple - Norway	Acer platanoides	23	4				23	7	10	Good	1SS, UC, ER, TK2, RT	4.5	City of Mississauga	Yes	Yes	1476.38
350	Maple - Norway	Acer platanoides	12	11	8			18	4	20	Good	TK3, TOB, SL, RP, RT	3	City of Mississauga	Yes	Yes	1031.85
351	Maple - Manitoba	Acer negundo	17	14				22	0	100	Dead	TK2, BOB, CT, DW, PB, RM	0	City of Mississauga	Yes	Yes	84.90
352	Maple - Silver	Acer saccharinum	6	4				7	4	20	Poor	TK2, ER, RH, SL, LNL, growing out of rip rap	3	City of Mississauga	Yes	Yes	158.30
353	Maple - Norway	Acer platanoides	32					32	10	15	Good	BOB, GTF, MB, SN, RP	6	City of Mississauga	Yes	Yes	2549.75
354	Maple - Norway	Acer platanoides	34					34	11	10	Good	ER, TOB, MB, FS, SN, RP	6.5	Private	Yes	No	2835.98
355	Maple - Norway	Acer platanoides	23	22				32	11	10	Good	TK2, IB, ER, SN, FS	6.5	City of Mississauga	Yes	Yes	2549.75
356	Maple - Sugar	Acer saccharum	27					27	6	35	Fair	FK@4M, TOB, SL, RH, CD, DW, RP	4	Private	Yes	No	1672.50
357	Spruce - White	Picea glauca	5					5	1	60	Poor	LS, 1SD, CD, UC	2.4	City of Mississauga	Yes	Yes	180.96
358	Maple - Norway	Acer platanoides	16					16	4	10	Good	GTF, BOB, FK@6M, ML, RP	3	City of Mississauga	Yes	Yes	884.40
359	Maple - Norway	Acer platanoides	14	12				18	5	15	Good	TK2, BOB, GTF, SN	3.5	City of Mississauga	Yes	Yes	1031.85
360	Maple - Manitoba	Acer negundo	16					16	6	100	Dead	BSD, DW, Dead	0	City of Mississauga	Yes	Yes	50.37
361	Cherry - Sweet	Prunus avium	21	18	11	10		31	3	45	Poor	TK4, CD, CS, DW, RP	2.5	Private	Yes	No	882.19
362	Maple - Norway	Acer platanoides	6	5				8	4	15	Poor	PF, GTF, TK2, SL, LS, BSD, WNC	3	City of Mississauga	Yes	Yes	204.78
363	Maple - Manitoba	Acer negundo	40					40	9	25	Fair	ER, SB, TOB, FK@2M, LN (M), 1SD, UC, DW, RP	5.5	City of Mississauga	Yes	Yes	1574.45
364	Elm - Siberian	Ulmus pumila	8					8	4	10	Fair	RB, CT, 1SD, ML, RP	3	Private	Yes	No	192.02
365	Ash - White	Fraxinus americana	3					3	2	35	Fair	SL, LS	2.4	City of Mississauga	Yes	Yes	174.80
366	Ash - White	Fraxinus americana	18					18	0	100	Dead	EAB, DW, SN, RM	0	City of Mississauga	Yes	Yes	118.60
367	Maple - Silver	Acer saccharinum	53	44				69	18	20	Good	TK2, IB, SC, SN, DW, DC, RP, RT	10	City of Mississauga	Yes	Yes	9377.37
368	Elm - Siberian	Ulmus pumila	31					31	6	25	Fair	1SD, NST, SN, CD	4	Private	Yes	No	1056.57
369	Maple - Manitoba	Acer negundo	3	2	2	2	2	5	2	20	Poor	RFS, TK5, DW, RT	2.4	City of Mississauga	Yes	Yes	53.82
370	Elm - Siberian	Ulmus pumila	8					8	2	50	Poor	TOB, LN(L), 1SD	2	Private	Yes	No	108.40
371	Maple - Norway	Acer platanoides	4					4	1	20	Fair	SL, LS, CT	1.5	Private	Yes	No	282.08
372	Ash - White	Fraxinus americana	4					4	0	100	Dead	DW, RM	0	Private	Yes	No	30.20
373	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes	1015.62
374	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes	1015.62
375	Elm - Siberian	Ulmus pumila	23					23	6	20	Fair	LN (M), CT, DW, SL, RP	4	Private	Yes	No	640.20
376	Maple - Norway	Acer platanoides	15	16				22	10	10	Good	TK2, TD, WNC, SN, PP, UC, 1SD	6	City of Mississauga	Yes	Yes	1378.80
377	Spruce - White	Picea glauca	19					19	6	15	Good	LS, PP, WC,	4	City of Mississauga	Yes	Yes	1217.20
378	Maple - Manitoba	Acer negundo	31					31	8	10	Good	MOB, LN(L), DE, CT, PF, RP	5	Private	Yes	No	1257.23
379	Maple - Silver	Acer saccharinum	27	38	24			52	16	15	Good	TK3, DC, BR1, PP, WNC, DW	9	City of Mississauga	Yes	Yes	5441.68
380	Ash - White	Fraxinus americana	4	3				5	1	25	Fair	TK2, SL, RT	1.5	Private	Yes	No	203.27
381	Maple - Manitoba	Acer negundo	30	11	10	10		35	11	40	Fair	TK4, GC, LN (M), CT, DW, 1SD, UC, RP	6.5	Private	Yes	No	1222.28
382	Maple - Silver	Acer saccharinum	27	48				55	17	10	Good	TK2, FK2@1.5M, DC, CT	9.5	City of Mississauga	Yes	Yes	6055.86
383	Ash - White	Fraxinus americana	18					18	0	100	Dead	LN (L), EAB, PB, DW, RM	0	Private	Yes	No	118.60
384	Apple sp.	Malus sp.	12	7				14	5	15	Good	TK2, LN (L), 1SD, UC, LS, RP	3.5	Private	Yes	No	582.48
385	Maple - Silver	Acer saccharinum	73					73	20	10	Good	FK2@1.4M, IB, SC, MB, FS, RP, PP, WNC, SN	11	City of Mississauga	Yes	Yes	10464.14
386	Ash - White	Fraxinus americana	3	2				4	0	100	Dead	TK2, DW, RM	0	Private	Yes	No	30.20
387	Maple - Manitoba	Acer negundo	44					44	13	15	Fair	TT, CV, LN (L), CT, 1SD, UC, SB, SC, FS, PF, RP	7.5	Private	Yes	No	1889.99
388	Maple - Silver	Acer saccharinum	49					49	16	15	Good	TW, WNC, SC, LNL, UC, RP	9	City of Mississauga	Yes	Yes	4861.95
389	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, PB, DW, RM	0	Private	Yes	No	48.86
390	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, TK2, DW, Topped	0	Private	Yes	No	48.86
391	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes	1091.62
392	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes	1091.62
393	Maple - Manitoba	Acer negundo	16					16	4	40	Poor	CT, LN (L), DW, LS, SL	3	Private	Yes	No	176.28
394	Ash - White	Fraxinus americana	3					3	1	15	Fair	SP, SL, LS	1.5	Private	Yes	No	174.80
395	Spruce - White	Picea glauca	19					19	3	100	Dead	LS, DW, PB	0	Private	Yes	No	152.15
396	Ash - White	Fraxinus americana	5	4	3			7	3	30	Fair	TK3, EAB, SL, RM	2.5	Private	Yes	No	245.97
397	Spruce - White	Picea glauca	33					33	5	15	Good	ER, CT, UC, DW	4.8	City of Mississauga	Yes	Yes	2958.32
398	Maple - Manitoba	Acer negundo	30	29				42	13	35	Poor	TK2, LN (H), DW, MB, CT, FS, RP	7.5	Private	Yes	No	975.75
399	Maple - Norway	Acer platanoides	9	4				10	6	10	Fair	TK2, TOB, ER, LS, SF, RT	4	Private	Yes	No	423.25
400	Ash - Green	Fraxinus pennsylvanica	3	2				4	1	10	Good	TK2, LS	2.4	City of Mississauga	Yes	Yes	219.71
401	Ash - White	Fraxinus americana	20					20	0	100	Dead	EAB, DW, MB, RM	0	Private	Yes	No	140.41
402	Maple - Norway	Acer platanoides	11					11	5	10	Good	BOB, LS, UC, DW	3.5	Private	Yes	No	591.66

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
403	Maple - Manitoba	Acer negundo	41					41	14	25	Fair	LN (L), FK@2M, DE, 1SD	8	Private	Yes	No	1650.52
404	Maple - Norway	Acer platanoides	9	3				9	3	15	Good	BOB, SL, UC, TK2	2.5	Private	Yes	No	504.93
405	Maple - Norway	Acer platanoides	7					7	3	15	Fair	MOB, LS, SF	2.5	Private	Yes	No	337.54
406	Maple - Manitoba	Acer negundo	15					15	3	60	Poor	LN (H), DW, CD, RM	2.5	Private	Yes	No	159.85
407	Maple - Norway	Acer platanoides	3	2	2			4	3	10	Fair	TK3, LS, RT	2.5	Private	Yes	No	282.08
408	Maple - Norway	Acer platanoides	7	5				9	4	15	Fair	TK2, RT, UC, FS, RP, LS, TW, WC	3	City of Mississauga	Yes	Yes	391.32
409	Ash - White	Fraxinus americana	27					27	0	100	Fair	EAB, DW, BOB, DW, RM	3.6	City of Mississauga	Yes	Yes	1455.96
410	Ash - White	Fraxinus americana	7					7	0	100	Dead	LN (M), BOB, ER, DW, RM	0	City of Mississauga	Yes	Yes	39.67
411	Ash - White	Fraxinus americana	12	12				17	4	100	Dead	RPM, TK2, PB, DW, fallen into creek	0	City of Mississauga	Yes	Yes	108.55
412	Cedar - Eastern-White	Thuja occidentalis	4	4				6	1	15	Fair	TK2, LS, DC	2.4	City of Mississauga	Yes	Yes	208.92
413	Cedar - Eastern-White	Thuja occidentalis	4	3				5	1	10	Good	LS, TK2, RT	2.4	City of Mississauga	Yes	Yes	244.31
414	Cedar - Eastern-White	Thuja occidentalis	5					5	1	10	Fair	DC, SF, PP	2.4	City of Mississauga	Yes	Yes	189.34
415	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	1	10	Good	TK4, LS, DC	2.4	City of Mississauga	Yes	Yes	269.57
416	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	15	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes	173.33
417	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	10	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes	173.33
418	Cedar - Eastern-White	Thuja occidentalis	4	4	3	3	2	7	2	10	Good	TK6, LS	2.4	City of Mississauga	Yes	Yes	299.42
419	Cedar - Eastern-White	Thuja occidentalis	3	1				3	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes	160.87
420	Cedar - Eastern-White	Thuja occidentalis	4	3				5	2	5	Good	TK2, DC, LS	2.4	City of Mississauga	Yes	Yes	244.31
421	Cedar - Eastern-White	Thuja occidentalis	5					5	2	10	Fair	TK2, FS, RP	2.4	City of Mississauga	Yes	Yes	189.34
422	Cedar - Eastern-White	Thuja occidentalis	5	5				7	2	25	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes	232.05
423	Cedar - Eastern-White	Thuja occidentalis	4	4	4	3		8	2	10	Good	TK4, LS	2.4	City of Mississauga	Yes	Yes	333.86
424	Cedar - Eastern-White	Thuja occidentalis	3	2	1			4	1	25	Fair	TK3, ML, RP	2.4	City of Mississauga	Yes	Yes	173.33
425	Cedar - Eastern-White	Thuja occidentalis	5	3	2			6	1	5	Good	LS, TK3	2.4	City of Mississauga	Yes	Yes	269.57
426	Cedar - Eastern-White	Thuja occidentalis	3	2				4	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes	173.33
427	Cedar - Eastern-White	Thuja occidentalis	5					5	2	30	Fair	SF, LS	2.4	City of Mississauga	Yes	Yes	189.34
428	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	1	10	Good	LS, FS, TK5	2.4	City of Mississauga	Yes	Yes	269.57
429	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	1	6	2	15	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes	208.92
430	Cedar - Eastern-White	Thuja occidentalis	3	2	2	1		4	1	15	Fair	TK4, LS, FS, RP	2.4	City of Mississauga	Yes	Yes	173.33
431	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2	2	5	1	10	Fair	TK6, FS, LS	2.4	City of Mississauga	Yes	Yes	189.34
432	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2		5	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes	244.31
433	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	2	30	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes	208.92
434	Cedar - Eastern-White	Thuja occidentalis	3	3	3	2		6	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes	269.57
435	Cedar - Eastern-White	Thuja occidentalis	4	4				6	3	15	Fair	TK2, DC, RP	2.5	City of Mississauga	Yes	Yes	208.92
436	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	2	10	Fair	TK4, DC, RP	2.4	City of Mississauga	Yes	Yes	208.92
437	Cedar - Eastern-White	Thuja occidentalis	3	3				4	1	15	Good	LS, TK2, FS, MB	2.4	City of Mississauga	Yes	Yes	223.65
438	Cedar - Eastern-White	Thuja occidentalis	4	3	3	3		7	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga	Yes	Yes	232.05
439	Cedar - Eastern-White	Thuja occidentalis	4	3	3			6	2	10	Good	TK3, ML, LS, FS	2.4	City of Mississauga	Yes	Yes	269.57
440	Maple - Norway	Acer platanoides	34					34	6	25	Fair	PP, 1SD, UC, FK@4M	4	Private	Yes	No	2197.89
441	Spruce - Colorado	Picea pungens	17					17	2	85	Poor	CD, DW, SL, PP, RM	2	City of Mississauga (Road ROW)	Yes	No	470.55
442	Maple - Manitoba	Acer negundo	4	4				6	2	5	Good	LT, TK2	2	Private	Yes	No	136.34
443	Walnut - Black	Juglans nigra	11					11	5	15	Good	CS, MB, ML, RP	3.5	Private	Yes	No	589.23
444	Spruce - Colorado	Picea pungens	30					30	8	25	Fair	CD, DW, DC, SF	5	Private	Yes	No	1981.14
445	Alder - European	Alnus glutinosa	7					7	3	25	Good	LNM, DW, BR1, SB	2.5	City of Mississauga	Yes	Yes	290.32
446	Alder - European	Alnus glutinosa	8	3				9	2	30	Good	TK2, SL, DW	2.4	City of Mississauga	Yes	Yes	337.26
447	Maple - Silver	Acer saccharinum	7	5	3			9	3	10	Fair	TK3, RH, FS, 1SD, RP	2.5	City of Mississauga	Yes	Yes	327.87
448	Alder - European	Alnus glutinosa	11	9				14	4	10	Good	TK2, SL, SF, RT	3	City of Mississauga	Yes	Yes	505.95
449	Maple - Manitoba	Acer negundo	9					9	2	20	Good	SL, LS, DW	2.4	City of Mississauga	Yes	Yes	190.87
450	Maple - Manitoba	Acer negundo	13	10	9	9		21	7	10	Good	TK4, MB, ML, RP, RT	4.5	City of Mississauga	Yes	Yes	627.11
451	Maple - Manitoba	Acer negundo	15	10				18	6	25	Fair	MB, RP, DW	4	City of Mississauga	Yes	Yes	376.13
452	Maple - Manitoba	Acer negundo	9	7				11	5	20	Good	MB, RT, RP, DW, CT, SB	3.5	City of Mississauga	Yes	Yes	239.34
453	Maple - Silver	Acer saccharinum	14	13	12			23	5	5	Good	TK3, SB, FS, SN, CT, ML, RP	3.6	City of Mississauga	Yes	Yes	1280.22
454	Alder - European	Alnus glutinosa	9					9	2	15	Good	SL, SF, DE (canker)	2.4	City of Mississauga	Yes	Yes	337.26
455	Alder - European	Alnus glutinosa	7					7	1	25	Good	DE, SL, LS, DW	2.4	City of Mississauga	Yes	Yes	290.32
456	Maple - Manitoba	Acer negundo	9	7				11	4	15	Fair	TK2, SL, CT, DW, RT	3	City of Mississauga	Yes	Yes	185.49
457	Maple - Manitoba	Acer negundo	8	8	7	6		15	7	15	Good	TK4, UC, RT, RP, TD, MB	4.5	City of Mississauga	Yes	Yes	365.37
458	Maple - Silver	Acer saccharinum	17					17	4	10	Good	FK@2M, SL, RP	3	City of Mississauga	Yes	Yes	821.03
459	Alder - European	Alnus glutinosa	10	9	5			14	5	15	Good	TK3, DW, DE, SL, RP, RT	3.5	City of Mississauga	Yes	Yes	505.95
460	Maple - Manitoba	Acer negundo	24					24	6	10	Good	LN (L), FK@3M, DW, RP	4	City of Mississauga	Yes	Yes	790.70
461	Maple - Manitoba	Acer negundo	5	5	7	5	4	12	8	20	Good	RT, TK8, LS, MB, CT	5	City of Mississauga	Yes	Yes	267.21
462	Alder - European	Alnus glutinosa	12					12	2	20	Good	DE, DW	2.4	City of Mississauga	Yes	Yes	429.68
463	Maple - Manitoba	Acer negundo	24					24	6	15	Good	LN (L), CT, TT, DW, 1SD, RP	4	City of Mississauga	Yes	Yes	790.70
464	Maple - Manitoba	Acer negundo	21					21	6	10	Good	LN (L), FK@4M, DW, FS, RP	4	City of Mississauga	Yes	Yes	627.11
465	Alder - European	Alnus glutinosa	10					10	3	30	Good	DW, SL	2.5	City of Mississauga	Yes	Yes	365.13
466	Maple - Manitoba	Acer negundo	4	4				6	2	20	Good	LS, RT, TK2, CT	2.4	City of Mississauga	Yes	Yes	136.34
467	Maple - Silver	Acer saccharinum	9					9	3	15	Fair	LN (L), CT, 1SD, LD	2.5	City of Mississauga	Yes	Yes	327.87
468	Alder - European	Alnus glutinosa	12					12	2	60	Fair	DE (canker), DW, CD, SL	2.4	City of Mississauga	Yes	Yes	333.00
469	Alder - European	Alnus glutinosa	8	5				9	3	30	Fair	TK2, DE, LN (L), 1SD, RP	2.5	City of Mississauga	Yes	Yes	261.38

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
470	Alder - European	Alnus glutinosa	7					7	2	30	Fair	SL, SF, DE	2.4	City of Mississauga	Yes	Yes	225.00
471	Maple - Freeman	Acer x freemanii	19					19	5	10	Good	SB, FK2@2M, RP, MB	3.5	City of Mississauga	Yes	Yes	1058.97
472	Alder - European	Alnus glutinosa	11					11	3	15	Good	SF, SL, DE	2.5	City of Mississauga	Yes	Yes	395.94
473	Maple - Manitoba	Acer negundo	5					5	2	10	Good	LS, CT, SL	2.4	City of Mississauga	Yes	Yes	123.01
474	Maple - Freeman	Acer x freemanii	17					17	4	10	Good	TK2, RH, FS, BR1, SL, RP	3	City of Mississauga	Yes	Yes	909.73
475	Alder - European	Alnus glutinosa	5	4	4			8	2	40	Good	TK3, RT, DW	2.4	City of Mississauga	Yes	Yes	312.33
476	Alder - European	Alnus glutinosa	9	7				11	3	15	Good	TK2, SF, SL, DE, RT	2.5	City of Mississauga	Yes	Yes	395.94
477	Alder - European	Alnus glutinosa	8					8	3	30	Fair	DW, DE, SL	2.5	City of Mississauga	Yes	Yes	242.05
478	Alder - European	Alnus glutinosa	6	6	5	5		11	5	25	Good	DE, DW, TD, RT, WNC	3.5	City of Mississauga	Yes	Yes	395.94
479	Maple - Freeman	Acer x freemanii	16					16	4	5	Good	FK@2M, FK@5M, 1SD, SL, RP	3	City of Mississauga	Yes	Yes	841.33
480	Maple - Manitoba	Acer negundo	5	4	3	3		8	4	20	Good	TK4, RT, LS, DW	3	City of Mississauga	Yes	Yes	170.27
481	Maple - Manitoba	Acer negundo	25	21				33	11	10	Good	TK2, IB, DW, ER, FK@4M, 1SD, DC, RP	6.5	City of Mississauga	Yes	Yes	1412.33
482	Alder - European	Alnus glutinosa	13	7	6	3		16	5	30	Good	DE, TK4, RT, DW	3.5	City of Mississauga	Yes	Yes	593.97
483	Maple - Manitoba	Acer negundo	3	3	5			7	3	20	Good	TK3, RT, LS, CT	2.5	City of Mississauga	Yes	Yes	152.10
484	Alder - European	Alnus glutinosa	7					7	2	10	Fair	SL, 1SD, DE	2.4	City of Mississauga	Yes	Yes	225.00
485	Alder - European	Alnus glutinosa	7	7	3	4		11	5	20	Good	TK4, RT, DE, DW, SL	3.5	City of Mississauga	Yes	Yes	395.94
486	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes	909.73
487	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes	365.13
488	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes	909.73
489	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes	365.13
490	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes	365.13
491	Alder - European	Alnus glutinosa	7	6	5	5	3	12	6	20	Good	TK7, RT, BSD, DE, DW	4	City of Mississauga	Yes	Yes	429.68
492	Maple - Freeman	Acer x freemanii	6	2				6	3	25	Fair	TK2, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes	298.62
493	Alder - European	Alnus glutinosa	6	4	6			9	5	5	Good	TK3, RT, DE, DW	3.5	City of Mississauga	Yes	Yes	337.26
494	Maple - Freeman	Acer x freemanii	8					8	2	5	Fair	SL, SF, ML, RP	2.4	City of Mississauga	Yes	Yes	343.60
495	Maple - Manitoba	Acer negundo	9					9	5	10	Fair	BOB, CT, SB, ST, FK@4M, 1SD, RP	3.5	City of Mississauga	Yes	Yes	147.93
496	Maple - Manitoba	Acer negundo	21	17				27	9	25	Good	TK2, IB, PF, WNC, PP, SC, MB, RP	5.5	City of Mississauga	Yes	Yes	976.10
497	Ash - Green	Fraxinus pennsylvanica	5	4				6	0	100	Dead	TK2, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes	32.88
498	Ash - Green	Fraxinus pennsylvanica	14					14	4	50	Poor	EAB, AD, SF, CD, RM	3	City of Mississauga	Yes	Yes	266.89
499	Apple sp.	Malus sp.	12	9				15	3	25	Fair	TK2, BOB, SC, DW, MB, FS, RP	2.5	City of Mississauga	Yes	Yes	492.27
500	Maple - Manitoba	Acer negundo	3					3	2	35	Fair	BOB, LN (M), LS, CT	2.4	City of Mississauga	Yes	Yes	80.31
501	Maple - Manitoba	Acer negundo	15					15	5	20	Fair	FS, SB, LNM, UC	3.5	City of Mississauga	Yes	Yes	283.16
502	Ash - White	Fraxinus americana	14	12	12			22	5	100	Dead	PB, FS, DW, BSD	0	City of Mississauga	Yes	Yes	164.52
503	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes	131.55
504	Ash - White	Fraxinus americana	14	13				19	6	100	Dead	PB, DW, VC, ER	0	City of Mississauga	Yes	Yes	129.22
505	Hawthorn sp.	Crataegus sp.	7					7	3	30	Fair	DW, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes	237.30
506	Hawthorn sp.	Crataegus sp.	16	8	7	6	6	21	6	20	Fair	TK5, FS, FK@2M, RP, RT	4	City of Mississauga	Yes	Yes	837.94
507	Apple sp.	Malus sp.	22	16	16			32	5	40	Fair	TK3, LNM, 1SD, UC, ER, DW	4.8	City of Mississauga	Yes	Yes	1617.81
508	Maple - Manitoba	Acer negundo	30					30	8	15	Fair	LN (H), MOB, FS, ST, RP	5	City of Mississauga	Yes	Yes	917.07
509	Ash - White	Fraxinus americana	26					26	5	100	Dead	ER, BSD, CT, DW, PB	0	City of Mississauga	Yes	Yes	219.62
510	Apple sp.	Malus sp.	14					14	5	25	Fair	BOB, LN (M), SB, CT, SC, DW, RP	3.5	City of Mississauga	Yes	Yes	451.42
511	Ash - Green	Fraxinus pennsylvanica	23					23	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes	166.51
512	Hawthorn sp.	Crataegus sp.	15	11	10	7	7	23	4	25	Fair	TK5, FS, CT, DW, RP, RT	3.6	City of Mississauga	Yes	Yes	972.78
513	Hawthorn sp.	Crataegus sp.	18	7	8	13	6	25	7	30	Fair	CT, TK4, UC, MB, DW, LS	4.5	City of Mississauga	Yes	Yes	1119.87
514	Ash - White	Fraxinus americana	14	8				16	6	80	Poor	CD, PB, DW, LNM, TK2, LS	4	City of Mississauga	Yes	Yes	346.79
515	Serviceberry sp.	Amelanchier sp.	11	9	5	4		16	4	10	Good	TK4, FS, 1SD, UC, LS, RP	3	City of Mississauga	Yes	Yes	790.51
516	Ash - Black	Fraxinus nigra	13					13	0	100	Dead	BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes	56.89
517	Ash - Green	Fraxinus pennsylvanica	20					20	8	75	Poor	BSD, TD, PB, DW, ER	5	City of Mississauga	Yes	Yes	460.42
518	Maple - Manitoba	Acer negundo	6	5				8	3	15	Fair	TK2, BOB, SL, RT	2.5	City of Mississauga	Yes	Yes	131.96
519	Ash - Black	Fraxinus nigra	6					6	1	100	Dead	SB, DW, PB, ER	0	City of Mississauga	Yes	Yes	26.68
520	Hawthorn sp.	Crataegus sp.	13	12	9	8	6	22	5	20	Fair	TK5, FS, CT, LS, RP	3.6	City of Mississauga	Yes	Yes	903.82
521	Hawthorn sp.	Crataegus sp.	5	3				6	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes	217.38
522	Cherry - Sweet	Prunus avium	6					6	3	25	Fair	LN (L), 1SD, CT, LS	2.5	City of Mississauga	Yes	Yes	213.99
523	Hawthorn sp.	Crataegus sp.	22	21	21	14	6	40	9	35	Fair	TK8, MB, FS, IB, RP, DW, ER	5.5	City of Mississauga	Yes	Yes	2613.81
524	Maple - Norway	Acer platanoides	9					9	4	15	Fair	SL, FS, RT, LS, UC	3	City of Mississauga	Yes	Yes	391.32
525	Maple - Norway	Acer platanoides	14	13	12	9	7	25	6	5	Good	TK5, MOB, FS, 1SD, RP	4	City of Mississauga	Yes	Yes	1684.55
526	Maple - Norway	Acer platanoides	12	9	8	7	4	19	5	15	Good	TK5, BOB, ER, FS, SL, RP, RT	3.5	City of Mississauga	Yes	Yes	1112.08
527	Hawthorn sp.	Crataegus sp.	16	7				17	5	40	Fair	TK2, DW, ER, FK2@2M, PB, RP	3.5	City of Mississauga	Yes	Yes	605.04
528	Maple - Norway	Acer platanoides	11					11	4	10	Good	TOB, 1SD, FK@3M, UC, RP	3	City of Mississauga	Yes	Yes	591.66
529	Maple - Norway	Acer platanoides	14					14	5	30	Fair	DW, ER, FS, SL,	3.5	City of Mississauga	Yes	Yes	584.58
530	Maple - Norway	Acer platanoides	11	11	9	8	6	21	7	10	Good	TK6, BOB, FS, DW, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes	1285.56
531	Maple - Norway	Acer platanoides	22					22	6	10	Good	LN (L), 1SD, FK@3M, SN2	4	City of Mississauga	Yes	Yes	1378.80
532	Maple - Manitoba	Acer negundo	26					26	0	100	Dead	LN (H), CT, PB, DW, RM	0	City of Mississauga	Yes	Yes	113.98
533	Hawthorn sp.	Crataegus sp.	8	7				11	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes	56.07
534	Hawthorn sp.	Crataegus sp.	17	13	10			24	5	15	Good	TK3, PP, ST, SC, RP	3.6	City of Mississauga	Yes	Yes	1348.12
535	Hawthorn sp.	Crataegus sp.	19	17	16	16	9	35	7	10	Good	TK5, FS, ML, ST, RP	4.8	City of Mississauga	Yes	Yes	2631.25
536	Hawthorn sp.	Crataegus sp.	14	13	11	10	9	26	4	35	Fair	TK6, CT, 1SD, UC, LS, RP	3.6	City of Mississauga (Park)	Yes	Yes	1198.02

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
537	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, ML, RP	2.4	City of Mississauga	Yes	Yes	270.32
538	Maple - Manitoba	Acer negundo	33					33	11	10	Good	SB, TW, WNC, LN (L), FK@3M, DC, RP	6.5	City of Mississauga (Park)	Yes	Yes	1412.33
539	Maple - Norway	Acer platanoides	5					5	2	15	Fair	SP, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes	297.21
540	Hawthorn sp.	Crataegus sp.	10					10	2	40	Poor	MB, LS, CD	2.4	City of Mississauga	Yes	Yes	178.07
541	Apple sp.	Malus sp.	34	31	31	28	14	64	8	20	Fair	TK7, FS, SB, ST, SC, PF, DW, RP	8.4	City of Mississauga	Yes	Yes	5945.27
542	Hawthorn sp.	Crataegus sp.	19	12				22	5	15	Good	TK2, FS, SN, 1SD, RP	3.6	City of Mississauga	Yes	Yes	1166.23
543	Ash - White	Fraxinus americana	44	35				56	0	100	Dead	TK2, SB, PF, BC, DW, RM	0	City of Mississauga	Yes	Yes	925.63
544	Hawthorn sp.	Crataegus sp.	13	12	10	8		22	0	100	Dead	TK4, PF, BC, RM	0	City of Mississauga	Yes	Yes	145.78
545	Maple - Manitoba	Acer negundo	3					3	1	15	Fair	LN(M), LS, 1SD, SP	2.4	City of Mississauga	Yes	Yes	80.31
546	Apple sp.	Malus sp.	29	18				34	4	50	Poor	TK2, FS, ST, SC, 1SD, PF, CT, VC, RP	4.8	City of Mississauga	Yes	Yes	1018.25
547	Maple - Manitoba	Acer negundo	27	24				36	6	10	Good	TK2, BOB, LN (L), PF, FS, RP	4.8	City of Mississauga	Yes	Yes	1663.17
548	Maple - Manitoba	Acer negundo	24	23				33	8	30	Fair	TK2, LN (M), BSD, WNC, VC, 1SD, CT, UC, RP	5	City of Mississauga	Yes	Yes	1094.56
549	Maple - Manitoba	Acer negundo	31	16				35	11	30	Fair	LN (H), PF, LG, FK@2M, SB, CT, VC, FS, SC, RP	6.5	City of Mississauga	Yes	Yes	1222.28
550	Hawthorn sp.	Crataegus sp.	20	15	14			29	5	25	Fair	TK2, MOB, FS, CT, DW, 1SD, RP	3.6	City of Mississauga	Yes	Yes	1450.84
551	Hawthorn sp.	Crataegus sp.	12	7				14	5	10	Fair	TK2, LN (L), LS, FK@2M	3.5	City of Mississauga	Yes	Yes	462.54
552	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN (L), EAB, PB, DW, SB, BOB, RM	0	City of Mississauga	Yes	Yes	131.55
553	Hawthorn sp.	Crataegus sp.	8	6	4	4		11	4	30	Fair	TK4, LN (L), BOB, ST, RT	3	City of Mississauga	Yes	Yes	347.62
554	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN(L), EAB, SB, DW, RM	0	City of Mississauga	Yes	Yes	131.55
555	Maple - Manitoba	Acer negundo	7	6	4	4		11	5	15	Fair	TK4, BOB, LS, SL, RT	3.5	City of Mississauga	Yes	Yes	185.49
556	Ash - Green	Fraxinus pennsylvanica	30					30	0	100	Dead	RPM, LG, EAB, DW, RM	0	City of Mississauga	Yes	Yes	267.07
557	Hawthorn sp.	Crataegus sp.	20	19				28	4	35	Fair	TK2, MOB, PF, DW, SL, RP	3.6	City of Mississauga	Yes	Yes	1363.50
558	Hawthorn sp.	Crataegus sp.	18	8	7			21	4	20	Fair	TK3, DW, CT, RP	3.6	City of Mississauga	Yes	Yes	837.94
559	Maple - Norway	Acer platanoides	6					6	3	10	Fair	FS, SP, LS	2.5	City of Mississauga	Yes	Yes	315.69
560	Maple - Norway	Acer platanoides	5	3				6	2	10	Fair	TK2, TOB, SL, LS	2.4	City of Mississauga	Yes	Yes	315.69
561	Hawthorn sp.	Crataegus sp.	21	16	13	11	6	32	6	20	Fair	TK5, FS, CT, 1SD, LN (L), RP, RT	4.8	City of Mississauga	Yes	Yes	1731.24
562	Maple - Norway	Acer platanoides	28					28	7	5	Good	DC, SF, SN	4.5	City of Mississauga	Yes	Yes	2029.33
563	Hawthorn sp.	Crataegus sp.	17	12	9			23	6	15	Fair	TK3, CT, SN, DW, RP	4	City of Mississauga	Yes	Yes	972.78
564	Apple sp.	Malus sp.	28	13				31	6	30	Fair	TK2, PF, DW, LN (M), RP	4.8	City of Mississauga	Yes	Yes	1529.06
565	Maple - Norway	Acer platanoides	5					5	1	10	Fair	MOB, SP, LS	2.4	City of Mississauga	Yes	Yes	297.21
566	Hawthorn sp.	Crataegus sp.	19	17	16			30	5	25	Fair	TK3, TW, WNC, DE, FS, CT, RP	3.6	City of Mississauga	Yes	Yes	1541.24
567	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes	86.88
568	Maple - Norway	Acer platanoides	7					7	3	10	Fair	CT, SL, LS	2.5	City of Mississauga	Yes	Yes	337.54
569	Hawthorn sp.	Crataegus sp.	20	8				22	2	30	Poor	TK2, CT, LN (H), ST, SC	3.6	City of Mississauga	Yes	Yes	510.22
570	Maple - Manitoba	Acer negundo	9					9	2	10	Fair	ER, SL, SF	2.4	City of Mississauga	Yes	Yes	147.93
571	Hawthorn sp.	Crataegus sp.	20	19	19	18	13	40	9	35	Fair	TK7, FK@2M, TOB, DW, FS, CD, RP	5.5	City of Mississauga	Yes	Yes	2613.81
572	Hawthorn sp.	Crataegus sp.	24	20	19	19	14	44	7	20	Fair	TK5, MOB, LN (L), 1SD, RP	6	City of Mississauga	Yes	Yes	3128.65
573	Maple - Norway	Acer platanoides	7	3				8	4	10	Fair	TK2, MOB, SL, LS, RT	3	City of Mississauga	Yes	Yes	362.75
574	Maple - Norway	Acer platanoides	8	5				9	3	10	Fair	TK2, SL, SN, RT	2.5	City of Mississauga	Yes	Yes	391.32
575	Maple - Norway	Acer platanoides	5	5	4			8	3	10	Fair	TK3, TOB, SL, RT	2.5	City of Mississauga	Yes	Yes	362.75
576	Hawthorn sp.	Crataegus sp.	16	14				21	9	10	Good	TK2, GTF, FS, SC, RP	5.5	City of Mississauga (Park)	Yes	Yes	1081.21
577	Hawthorn sp.	Crataegus sp.	16	15	10	8		25	8	15	Good	TK4, TOB, FS, RP	5	City of Mississauga (Park)	Yes	Yes	1445.00
578	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes	270.32
579	Hawthorn sp.	Crataegus sp.	21	13	10	10	8	30	10	35	Fair	TK, MOB, VC, FS, CD, DW, RP	6	City of Mississauga	Yes	Yes	1541.24
580	Hawthorn sp.	Crataegus sp.	13	12	11	10		23	5	30	Fair	TK4, LN (H), DW, FS, RP	3.6	City of Mississauga	Yes	Yes	972.78
581	Maple - Manitoba	Acer negundo	5	5	5	5	4	11	5	10	Fair	TK6, SP, SL, RT	3.5	City of Mississauga	Yes	Yes	185.49
582	Maple - Manitoba	Acer negundo	8	6	5	4		12	5	10	Fair	TK4, LN (L), BOB, RT	3.5	City of Mississauga	Yes	Yes	207.09
583	Ash - Green	Fraxinus pennsylvanica	12					12	0	100	Dead	RPM, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes	62.16
584	Maple - Norway	Acer platanoides	4					4	1	10	Good	SP, SL	2.4	City of Mississauga	Yes	Yes	363.98
585	Hawthorn sp.	Crataegus sp.	22	17				28	7	10	Fair	TK2, LN (L), FK@3M, FS, 1SD, RP	4.5	City of Mississauga	Yes	Yes	1363.50
586	Ash - Green	Fraxinus pennsylvanica	3					3	1	10	Fair	SP, BOB	2.4	City of Mississauga	Yes	Yes	158.51
587	Maple - Manitoba	Acer negundo	3	3				4	2	5	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes	86.88
588	Ash - Green	Fraxinus pennsylvanica	14	10				17	0	100	Dead	TK2, LN (H), RPM, EAB, DW, RM	0	City of Mississauga	Yes	Yes	101.46
589	Maple - Manitoba	Acer negundo	4					4	2	10	Fair	SL, SML, RP	2.4	City of Mississauga	Yes	Yes	86.88
590	Hawthorn sp.	Crataegus sp.	22					22	6	15	Good	FK@3M, LN (L), CT, SC, RP	4	City of Mississauga	Yes	Yes	1166.23
591	Maple - Manitoba	Acer negundo	3					3	1	10	Fair	SP	2.4	City of Mississauga	Yes	Yes	80.31
592	Maple - Norway	Acer platanoides	3	3				4	2	0	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes	282.08
593	Hawthorn sp.	Crataegus sp.	27	25	23	21	20	52	10	30	Fair	TK6, TT, CT, DW, SC, FS, RP	7.2	City of Mississauga	Yes	Yes	4305.41
594	Hawthorn sp.	Crataegus sp.	31	28				42	10	15	Good	TK2, TOB, CV, CT, SN, DW, RP	6	City of Mississauga (Park)	Yes	Yes	3696.90
595	Maple - Norway	Acer platanoides	3	3	3	3		6	4	10	Fair	TK4, SP, SL, RT	3	City of Mississauga	Yes	Yes	315.69
596	Maple - Norway	Acer platanoides	4					4	2	10	Fair	TOB, SL, SP, LS	2.4	City of Mississauga	Yes	Yes	282.08
597	Hawthorn sp.	Crataegus sp.	38	32	24	23	23	64	14	15	Fair	TK6, LN (H), PF, LG, FK@3M, CT, TT, CV, GTF, ETB, SC, SN, DW, RP	8.4	City of Mississauga	Yes	Yes	6438.30
598	Maple - Norway	Acer platanoides	21	14				25	7	15	Good	TK2, ER, MOB, FK@3M, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes	1684.55
599	Maple - Norway	Acer platanoides	9					9	5	10	Fair	LN (L), LS, 1SD, ML, RP	3.5	City of Mississauga	Yes	Yes	391.32
600	Hawthorn sp.	Crataegus sp.	10					10	3	15	Fair	LN (M), CT, SL	2.5	City of Mississauga	Yes	Yes	315.44
601	Apple sp.	Malus sp.	28	27				39	7	25	Fair	TK2, FS, SB, ST, SC, LN (M), 1SD, PF, RP	4.8	City of Mississauga	Yes	Yes	2317.92
602	Hawthorn sp.	Crataegus sp.	12	11	9			19	3	50	Poor	TK3, LN (L), DW, RP	2.5	City of Mississauga	Yes	Yes	403.83
603	Maple - Norway	Acer platanoides	4					4	2	10	Fair	CT, SP, LS	2.4	City of Mississauga	Yes	Yes	282.08

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)	Tree Valuation (Trunk Formula) - $
604	Hawthorn sp.	Crataegus sp.	11	6				13	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes	67.93
605	Hawthorn sp.	Crataegus sp.	17	16	9			25	5	15	Good	TK3, BOB, TT, DW, RP	3.6	City of Mississauga	Yes	Yes	1445.00
606	Hawthorn sp.	Crataegus sp.	15	9				17	4	10	Fair	TK2, VC, LN (M), SC, RP	3	City of Mississauga	Yes	Yes	605.04
607	Hawthorn sp.	Crataegus sp.	10					10	1	70	Poor	CT, BOB, DW, RM	2.4	City of Mississauga	Yes	Yes	178.07
608	Hawthorn sp.	Crataegus sp.	22	16	15			31	11	15	Good	TK3, FS, RH, FK@2M, LN (L), DW,,RP	6.5	City of Mississauga	Yes	Yes	2109.30
609	Apple sp.	Malus sp.	10					10	0	100	Dead	BOB, DW, RM	0	City of Mississauga	Yes	Yes	51.00
610	Apple sp.	Malus sp.	17	13	10	8	6	26	0	100	Dead	TK8, DW, BOB, RM	0	City of Mississauga	Yes	Yes	181.87
611	Maple - Norway	Acer platanoides	5					5	2	15	Fair	BOB, CT, ML, LS	2.4	City of Mississauga	Yes	Yes	297.21
612	Maple - Norway	Acer platanoides	3					3	2	10	Fair	SP, BOB, LS	2.4	City of Mississauga	Yes	Yes	270.32
613	Maple - Norway	Acer platanoides	3	2				4	1	0	Fair	TK2, CT, LS, RP	2.4	City of Mississauga	Yes	Yes	282.08
614	Ash - Green	Fraxinus pennsylvanica	14					14	0	100	Dead	RPM, LN (M), EAB, DW, RM	0	City of Mississauga	Yes	Yes	76.25
615	Ash - Green	Fraxinus pennsylvanica	3					3	1	15	Fair	BOB, SP, SL	2.4	City of Mississauga	Yes	Yes	158.51
616	Hawthorn sp.	Crataegus sp.	21	20	20	9	8	37	9	20	Fair	TK7, BOB, GTF, ER, SN, RP	5.5	City of Mississauga	Yes	Yes	2259.86
617	Hawthorn sp.	Crataegus sp.	16	14	14	12	9	30	5	45	Poor	TK5, BOB, GTF, PB, DW, PF, RP	3.6	City of Mississauga	Yes	Yes	870.05
618	Apple sp.	Malus sp.	51					51	6	20	Fair	TOB, GTF, PP, PC, SC, RP	7.2	City of Mississauga	Yes	Yes	3839.29
619	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No	5694.63
620	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No	5694.63
621	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
622	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
623	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
624	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
625	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
626	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
627	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
628	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes	929.57
629	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
630	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
631	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
632	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
633	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
634	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
635	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
636	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
637	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
638	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	2.4	City of Mississauga (Park)	Yes	Yes	173.33
639	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No	173.33
640	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	2.4	City of Mississauga (Park)	Yes	Yes	173.33
641	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
642	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
643	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
644	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
645	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
646	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
647	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
648	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33
649	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No	173.33

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Appendix A2

Tree Sapling Areas and Monoculture Thickets

Tree Area ID	Common Name	First DBH (cm)	Second DBH (cm)	Tree Crown Reserve (m)	Crown Dieback	Overall Condition	Observations/Comments	Within TRCA Regulated Area (Y/N)	Ownership	Total Area (m2)	Total Impacted Area (m2) - Alternative 1	Total Impacted Area (%) - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Total Impacted Area (m2) - Alternative 2	Total Impacted Area (%) - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2
TA-01	Mixed Species	1		1	10	Fair	Saplings < 1.4 m: dogwood sp. (19), sugar maple (6), red oak (3), Freeman maple (4), English oak (1), eastern cottonwood (1), red osier dogwood (16). 25+ dead saplings	No	City of Mississauga	467	0	0	NA	NA	0	0	NA	NA
TA-02	Mixed Species	1		1	10	Fair	Saplings < 1.4 m: trembling aspen (7), dogwood sp. (15), eastern white pine (6), Freeman maple (10), serviceberry (6)	No	City of Mississauga	506	0	0	NA	NA	0	0	NA	NA
TA-03	Mixed Species	1		1	0	Fair	Recently Planted Landscape Trees ~ 2 m in height: eastern white cedar (15), hackberry (10), Freeman maple (25), red osier dogwood (20), white spruce (15), eastern white pine (15), eastern cottonwood (5)	Yes	City of Mississauga	1154	1154	100	NA	90	1154	100	NA	90
TA-04	Sumac - Staghorn	8	3	2	10	Good	Approximately 120 stems	Yes	City of Mississauga	138	138	100	NA	NA	138	100	NA	NA
TA-05	Sumac - Staghorn	5	3	2	10	Good	Approximately 20 stems	Yes	City of Mississauga	90	90	100	NA	NA	90	100	NA	NA
TA-06	Sumac - Staghorn	8	3	2	10	Good	Approximately 30 stems	Yes	City of Mississauga	100	100	100	NA	NA	100	100	NA	NA

Tree Area ID	Common Name	Total Impacted Area (m2) - Alternative 3	Total Impacted Area (%) - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Total Impacted Area (m2) - Alternative 4	Total Impacted Area (%) - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Total Impaced Area (m2) - Alternative 5	Total Impacted Area (%) - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5
TA-01	Mixed Species	0	0	NA	NA	0	0	NA	NA	0	0	NA	NA
TA-02	Mixed Species	0	0	NA	NA	0	0	NA	NA	0	0	NA	NA
TA-03	Mixed Species	1154	100	NA	90	0	0	NA	NA	0	0	NA	NA
TA-04	Sumac - Staghorn	138	100	NA	NA	0	0	NA	NA	0	0	NA	NA
TA-05	Sumac - Staghorn	90	100	NA	NA	0	0	NA	NA	0	0	NA	NA
TA-06	Sumac - Staghorn	100	100	NA	NA	0	0	NA	NA	0	0	NA	NA

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Appendix B1

Alternative 1 Tree Management Table

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
1	Honey-Locust	Gleditsia triacanthos	31					31	9	10	Good	ST, DW, FS, FC, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
2	Maple - Norway	Acer platanoides	13					13	4	0	Good	LT, DC, SF, RP	2.4	City of Mississauga (Park)	No	Yes
3	Maple - Norway	Acer platanoides	16					16	4	10	Good	LT, NST, ER, BSD, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
4	Maple - Norway	Acer platanoides	18					18	4	5	Good	ER, GR, PP, WC, DW, RP	2.4	City of Mississauga (Park)	No	Yes
5	Honey-Locust	Gleditsia triacanthos	17					17	5	5	Good	LT, ER, FS, RP	2.4	City of Mississauga (Park)	No	Yes
6	Maple - Silver	Acer saccharinum	25					25	9	0	Good	PTH, TW, WC, PF, FK@2M, RP	3.6	City of Mississauga (Park)	No	Yes
7	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	FK@2M, MB, FS, UW, RP	1.5	City of Mississauga (Road ROW)	No	No
8	Honey-Locust	Gleditsia triacanthos	15					15	7	5	Good	MB, PF, WNC, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
9	Maple - Silver	Acer saccharinum	62					62	11	15	Good	FK@2M, PP, WNC, MB, PB, ST, RP	8.4	City of Mississauga (Park)	No	Yes
10	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	MB, DW, FS, RP	2.4	City of Mississauga (Park)	No	Yes
11	Apple sp.	Malus sp.	25					25	6	20	Fair	LN (M), BSD, TW, WNC, ST, SC, 1SD, UC, PP, RP	3.6	City of Mississauga (Park)	No	Yes
12	Maple - Norway	Acer platanoides	10					10	2	15	Good	ER, DC, RP	2.4	City of Mississauga (Park)	No	Yes
13	Maple - Norway	Acer platanoides	10					10	3	20	Fair	BSD, MB, RP	2.4	City of Mississauga (Park)	No	Yes
14	Maple - Norway	Acer platanoides	14					14	4	10	Good	PTL, LN (L), TW, PF, WNC, ER, RP	2.4	City of Mississauga (Park)	No	Yes
15	Oak - Red	Quercus rubra	13					13	4	0	Good	ER, DC, SF, PF, RP	2.4	City of Mississauga (Park)	No	Yes
16	Serviceberry sp.	Amelanchier sp.	4	3	2	2	2	6	1	10	Fair	TK7, RP	2.4	City of Mississauga (Park)	No	Yes
17	Zelkova - Japanese	Zelkova serrata	4					4	1	10	Fair	FS, SL, ML, RP	2.4	City of Mississauga (Park)	No	Yes
18	Serviceberry sp.	Amelanchier sp.	2					2	1	20	Fair	PTL, RH	2.4	City of Mississauga (Park)	No	Yes
19	Oak - English	Quercus robur	12					12	4	0	Good	BSD, WNC, ER, PF, RH, RP, DC, SF	2.4	City of Mississauga (Park)	No	Yes
20	Maple - Norway	Acer platanoides	17					17	5	5	Good	ER, GR, NST, DC	2.4	City of Mississauga (Park)	No	Yes
21	Maple - Norway	Acer platanoides	15					15	4	10	Good	ER, GR, DW, RP	2.4	City of Mississauga (Park)	No	Yes
22	Honey-Locust	Gleditsia triacanthos	18					18	6	5	Good	PP, WC, FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
23	Honey-Locust	Gleditsia triacanthos	17					17	7	5	Good	ER, ETB, PP, WC, FS, DW, RP	1.5	Peel District School Board	No	No
24	Honey-Locust	Gleditsia triacanthos	17					17	6	10	Good	ETB, SB, MB, FS, DW, RP	1.5	Peel District School Board	No	No
25	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	ER, MB, TW, WNC, PP, FS, RP	1.5	Peel District School Board	No	No
26	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, SF, RP	2.4	City of Mississauga (Park)	No	Yes
27	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
28	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
29	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
30	Yellow-Wood	Cladrastis kentukea	5					5	1	0	Fair	LT, PTL, PP, SL	2.4	City of Mississauga (Park)	No	Yes
31	Yellow-Wood	Cladrastis kentukea	6					6	1	10	Fair	LT, SB, RH, MB, FS, TW, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
32	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, VC, DC, SF	1.5	Peel District School Board	No	No
33	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
34	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, NST, DC, SF	1.5	Peel District School Board	No	No
35	Honey-Locust	Gleditsia triacanthos	18					18	7	10	Good	FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
36	Yellow-Wood	Cladrastis kentukea	3	2	2	1		4	1	0	Fair	PTL, ML, FS, RP	2.4	City of Mississauga (Park)	No	Yes
37	Yellow-Wood	Cladrastis kentukea	4	3	2	2		6	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga (Park)	No	Yes
38	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
39	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
40	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
41	Yellow-Wood	Cladrastis kentukea	3					3	2	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes
42	Yellow-Wood	Cladrastis kentukea	6					6	1	5	Fair	ML, FS,,RP	2.4	City of Mississauga (Park)	No	Yes
43	Honey-Locust	Gleditsia triacanthos	11					11	5	10	Good	LT, MB, DC	1.5	Peel District School Board	No	No
44	Spruce - Colorado	Picea pungens	12					12	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
45	Spruce - Colorado	Picea pungens	10					10	2	30	Fair	VC, LT, SL, CD	1.5	Peel District School Board	No	No
46	Honey-Locust	Gleditsia triacanthos	19					19	7	5	Good	ER, ST, DW, FS, RP	1.5	Peel District School Board	No	No
47	Maple - Norway	Acer platanoides	5					5	2	10	Fair	1SD, LS, GTF	1.2	Peel District School Board	No	No
48	Elm - Siberian	Ulmus pumila	20	7				21	7	15	Good	TK2, GTF, FS, DW, SF, RP	1.8	Peel District School Board	No	No
49	Maple - Manitoba	Acer negundo	12	9	6			16	5	25	Fair	TK3, GTF, LN (L), FS, CT, 1SD, UC, PP, RP	1.5	Peel District School Board	No	No
50	Maple - Manitoba	Acer negundo	17	10	10			22	9	15	Good	TK3, GTF, RH, CT, RP	1.8	Peel District School Board	No	No
51	Sweetgum	Liquidambar styraciflua	6					6	1	40	Poor	SL, PP, RH, SB	2.4	City of Mississauga (Park)	No	Yes
52	Sweetgum	Liquidambar styraciflua	5					5	1	30	Fair	RH, SL	2.4	City of Mississauga (Park)	No	Yes
53	Sweetgum	Liquidambar styraciflua	4					4	1	25	Fair	LT, SL, RH	2.4	City of Mississauga (Park)	No	Yes
54	Yellow-Wood	Cladrastis kentukea	4					4	1	5	Fair	LT, CT, MB, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
55	Sweetgum	Liquidambar styraciflua	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
56	Spruce - Colorado	Picea pungens	11					11	3	5	Good	LT, DC, ML, RP	2.4	City of Mississauga (Park)	No	Yes
57	Sweetgum	Liquidambar styraciflua	4					4	0	100	Dead	SB, DW, RM	0	City of Mississauga (Park)	No	Yes
58	Spruce - Colorado	Picea pungens	9					9	2	5	Good	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
59	Spruce - Colorado	Picea pungens	8					8	2	15	Fair	PTL, GC, SF, RF	2.4	City of Mississauga (Park)	No	Yes
60	Sweetgum	Liquidambar styraciflua	5					5	1	15	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
61	Sweetgum	Liquidambar styraciflua	5					5	1	35	Fair	LT, PTL, 1SD, RP	2.4	City of Mississauga (Park)	No	Yes
62	Spruce - Colorado	Picea pungens	8					8	2	25	Fair	GC, 1SD, PL, SL, DW	2.4	City of Mississauga (Park)	No	Yes
63	Maple - Manitoba	Acer negundo	27					27	10	20	Fair	GTF, DE, PP, 1SD, UC, RP	3.6	City of Mississauga (Park)	No	Yes
64	Apple sp.	Malus sp.	13					13	5	20	Fair	LN (M), SB, ST, SC, 1SD, UC	2.4	City of Mississauga (Park)	No	Yes
65	Honey-Locust	Gleditsia triacanthos	51					51	13	15	Good	LT, BSD, WNC, FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
66	Oak - Red	Quercus rubra	8					8	3	10	Fair	TW, WNC, DC	2.4	City of Mississauga (Park)	No	Yes
67	Oak - Red	Quercus rubra	7					7	3	10	Fair	ML, LT, RP	2.4	City of Mississauga (Park)	No	Yes
68	Spruce - Colorado	Picea pungens	9					9	3	0	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
69	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	4	3				5	1	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
1	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	2354.52	No
2	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	695.75	No
3	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	884.40	No
4	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	1031.85	No
5	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	940.20	No
6	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 1 Study Area	NA	NA	1463.90	No
7	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	1173.81	No
8	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	805.50	No
9	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 1 Study Area	NA	NA	7622.86	No
10	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	805.50	No
11	Apple sp.	Malus sp.	Retain	Outside Alternative 1 Study Area	NA	NA	1055.75	No
12	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	546.13	No
13	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	423.25	No
14	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	754.29	No
15	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	843.92	No
16	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	226.61	No
17	Zelkova - Japanese	Zelkova serrata	Retain	Outside Alternative 1 Study Area	NA	NA	278.53	No
18	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
19	Oak - English	Quercus robur	Retain	Outside Alternative 1 Study Area	NA	NA	762.24	No
20	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	955.96	No
21	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	817.18	No
22	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	1013.86	No
23	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	940.20	No
24	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	940.20	No
25	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	1173.81	No
26	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	247.92	No
27	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	247.92	No
28	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	247.92	No
29	Gingko	Gingko biloba	Retain	Outside Alternative 1 Study Area	NA	NA	264.68	No
30	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	241.00	No
31	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	259.21	No
32	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
33	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
34	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
35	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	1013.86	No
36	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	226.09	No
37	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	259.21	No
38	Gingko	Gingko biloba	Retain	Outside Alternative 1 Study Area	NA	NA	264.68	No
39	Gingko	Gingko biloba	Retain	Outside Alternative 1 Study Area	NA	NA	264.68	No
40	Gingko	Gingko biloba	Retain	Outside Alternative 1 Study Area	NA	NA	264.68	No
41	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	214.50	No
42	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	259.21	No
43	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	586.62	No
44	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
45	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
46	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	1091.73	No
47	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	297.21	No
48	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 1 Study Area	NA	NA	716.62	No
49	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 1 Study Area	NA	NA	312.27	No
50	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 1 Study Area	NA	NA	679.22	No
51	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 1 Study Area	NA	NA	162.16	No
52	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	270.95	No
53	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	257.60	No
54	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 1 Study Area	NA	NA	226.09	No
55	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	270.95	No
56	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
57	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 1 Study Area	NA	NA	41.55	No
58	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
59	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
60	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	270.95	No
61	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	270.95	No
62	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	0.00	No
63	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 1 Study Area	NA	NA	756.48	No
64	Apple sp.	Malus sp.	Retain	Outside Alternative 1 Study Area	NA	NA	413.39	No
65	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	5806.14	No
66	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	443.85	No
67	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	413.82	No
68	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	442.87	No
69	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No
70	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
71	Oak - Red	Quercus rubra	3					3	1	20	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
72	Oak - Red	Quercus rubra	4					4	1	5	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
73	Oak - Red	Quercus rubra	3					3	1	25	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
74	Spruce - Colorado	Picea pungens	5					5	2	45	Poor	LT, CD, DW, RM	2.4	City of Mississauga (Park)	No	Yes
75	Maple - Freeman	Acer x freemanii	3	3	2			5	3	25	Poor	TK3, PP, GTF, RM	2.4	City of Mississauga (Park)	No	Yes
76	Spruce - Colorado	Picea pungens	5					5	2	15	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
77	Maple - Freeman	Acer x freemanii	43					43	12	10	Good	PP, TW, WNC, FK@5M, DW, SB, RP	6	City of Mississauga (Park)	No	Yes
78	Spruce - White	Picea glauca	5					5	3	25	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
79	Spruce - White	Picea glauca	9					9	4	15	Fair	LT, ML, PL, RP	2.4	City of Mississauga (Park)	No	Yes
80	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
81	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	FK@2M, RP, LT	2.4	City of Mississauga (Park)	No	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, ML	2.4	City of Mississauga (Park)	No	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	5	2				5	2	10	Fair	TK2, LT, RP	2.4	City of Mississauga (Park)	No	Yes
84	Honey-Locust	Gleditsia triacanthos	44					44	13	10	Good	FK@2M, CT, DW, FS, RP	6	City of Mississauga (Park)	No	Yes
85	Cherry - Sweet	Prunus avium	24	23	14	11		38	6	25	Fair	TK4, PP, WNC, FS, SC, RP	2.4	Private	No	No
86	Apple sp.	Malus sp.	12					12	4	10	Good	PP, LN (L), CT, SC, DC, RP	1.5	Private	No	No
87	Oak - Swamp White	Quercus bicolor	5					5	1	10	Fair	LT, SL, SG	2.4	City of Mississauga (Park)	No	Yes
88	Oak - Swamp White	Quercus bicolor	6					6	1	15	Fair	LT, SB, SF	2.4	City of Mississauga (Park)	No	Yes
89	Spruce - Colorado	Picea pungens	28					28	5	10	Good	LT, PP, DC, SF	1.8	Private	No	No
90	Horsechestnut - European	Aesculus hippocastanum	32					32	9	5	Good	LT, MB, DC, SF	2.4	Private	No	No
91	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
92	Oak - Swamp White	Quercus bicolor	4					4	1	10	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
93	Spruce - Colorado	Picea pungens	12					12	3	15	Good	LT, 1SD, NST	2.4	City of Mississauga (Park)	No	Yes
94	Maple - Norway	Acer platanoides	7					7	1	0	Fair	GTF, BR2, DW, SL	2.4	City of Mississauga (Park)	No	Yes
95	Maple - Manitoba	Acer negundo	12	12	11	9		22	6	10	Good	TK4, FS, GTF, FS, RP	3.6	City of Mississauga (Park)	No	Yes
96	Maple - Norway	Acer platanoides	7	5				9	1	15	Fair	TK2, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
97	Spruce - Colorado	Picea pungens	11					11	3	10	Good	LT, ER, SL, SF	2.4	City of Mississauga (Park)	No	Yes
98	Mulberry - White	Morus alba	19	15	14	13	8	32	7	15	Fair	TK5, GTF, PP, WNC, TW, FS, RP	4.8	City of Mississauga (Park)	No	Yes
99	Spruce - Colorado	Picea pungens	10					10	2	0	Good	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
100	Apple sp.	Malus sp.	27	24	19	17		44	9	25	Fair	TK4, PP, ST, SC, FS, SN, RH, RP	6	City of Mississauga (Park)	No	Yes
101	Apple sp.	Malus sp.	4	3	3	3		7	2	10	Fair	TK4, FS, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
102	Sweetgum	Liquidambar styraciflua	4					4	1	30	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
103	Sweetgum	Liquidambar styraciflua	6					6	1	15	Fair	LT, SL, PP	2.4	City of Mississauga (Park)	No	Yes
104	Kentucky Coffeetree	Gymnocladus dioicus	5					5	2	10	Good	LT, ML	2.4	City of Mississauga (Park)	No	Yes
105	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
106	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	DC, SF, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
107	Honey-Locust	Gleditsia triacanthos	59					59	13	10	Good	FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
108	Spruce - Colorado	Picea pungens	9					9	3	5	Good	LT, ER, SF	2.4	City of Mississauga (Park)	No	Yes
109	Spruce - White	Picea glauca	9					9	3	0	Good	ER, LT, SF	2.4	City of Mississauga (Park)	No	Yes
110	Mulberry - White	Morus alba	7	4				8	3	25	Fair	TK2, GTF, LN (L), ML, RP	2.4	City of Mississauga (Park)	No	Yes
111	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, SF	2.4	City of Mississauga (Park)	No	Yes
112	Oak - Red	Quercus rubra	7					7	2	15	Fair	LT, ER, FK@3M, ML, RP	2.4	City of Mississauga (Park)	No	Yes
113	Oak - Red	Quercus rubra	6					6	2	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
114	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	PP, TK4, RP	2.4	City of Mississauga (Park)	No	Yes
115	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	15	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
116	Oak - Red	Quercus rubra	8					8	2	0	Fair	ER, LT, PL, DC, 1SD	2.4	City of Mississauga (Park)	No	Yes
117	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
118	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	15	Fair	TK3, SB, RP	2.4	City of Mississauga (Park)	No	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	3	3	3	3		6	1	5	Fair	LT, TW, WNC, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	10	Fair	BSD, LN (L), WNC, LT, SF	2.4	City of Mississauga (Park)	No	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
122	Linden - Little-Leaf	Tilia cordata	3					3	1	15	Fair	LT, BR1, ML, RP	2.4	City of Mississauga (Park)	No	Yes
123	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
124	Linden - Little-Leaf	Tilia cordata	4					4	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
125	Pine - Austrian	Pinus nigra	37					37	7	15	Good	TW, WNC, CT, AD (sapsucker), LN (L), FS, RP	4.8	City of Mississauga (Park)	No	Yes
126	Sweetgum	Liquidambar styraciflua	4					4	4	5	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
127	Cherry - Sweet	Prunus avium	5	4				6	2	10	Fair	TK2, 1SD, FS, RP	2.4	City of Mississauga (Park)	No	Yes
128	Spruce - Colorado	Picea pungens	7					7	2	10	Fair	LT, FS, SF, RP	2.4	City of Mississauga (Park)	No	Yes
129	Spruce - Colorado	Picea pungens	6					6	2	0	Fair	LT, PL, RP	2.4	City of Mississauga (Park)	No	Yes
130	Pear sp.	Pyrus sp.	12	10				16	5	25	Fair	TK2, 1SD, UC, DW, LN (L), RP	2.4	City of Mississauga (Park)	No	Yes
131	Maple - Manitoba	Acer negundo	10	5	5	4	4	13	5	30	Fair	TK5, ST, SC, FS, PP, RP	2.4	City of Mississauga (Park)	No	Yes
132	Linden - Little-Leaf	Tilia cordata	4	4				6	1	20	Fair	TK2, GTF, LN (L), PP, SC, 1SD, LS	2.4	City of Mississauga (Park)	No	Yes
133	Spruce - White	Picea glauca	7					7	3	25	Fair	LT, CD, CN, SF	2.4	City of Mississauga (Park)	No	Yes
134	Spruce - White	Picea glauca	9					9	2	20	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
135	Spruce - White	Picea glauca	6					6	2	30	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
136	Cottonwood - Eastern	Populus deltoides	24	18				30	7	20	Fair	TK2, DW, CD, PB, RP	3.6	City of Mississauga (Park)	No	Yes
137	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
138	Catalpa - Northern	Catalpa speciosa	4					4	1	10	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
139	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
140	Oak - English	Quercus robur	55					55	6	10	Good	DC, SL	3.6	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
71	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	333.75	No
72	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	347.76	No
73	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	333.75	No
74	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 1 Study Area	NA	NA	190.63	No
75	Maple - Freeman	Acer x freemanii	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 1 Study Area	NA	NA	158.60	No
76	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	337.69	No
77	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 1 Study Area	NA	NA	4143.23	No
78	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	320.55	No
79	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	424.35	No
80	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	617.49	No
81	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No
82	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No
83	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No
84	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	4406.55	No
85	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 1 Study Area	NA	NA	2267.01	No
86	Apple sp.	Malus sp.	Retain	Outside Alternative 1 Study Area	NA	NA	487.96	No
87	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No
88	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 1 Study Area	NA	NA	348.19	No
89	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	2275.19	No
90	Horsechestnut - European	Aesculus hippocastanum	Retain	Outside Alternative 1 Study Area	NA	NA	2395.77	No
91	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	327.80	No
92	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 1 Study Area	NA	NA	311.12	No
93	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	724.13	No
94	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	337.54	No
95	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 1 Study Area	NA	NA	679.22	No
96	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	391.32	No
97	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	668.38	No
98	Mulberry - White	Morus alba	Retain	Outside Alternative 1 Study Area	NA	NA	1818.03	No
99	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	617.49	No
100	Apple sp.	Malus sp.	Retain	Outside Alternative 1 Study Area	NA	NA	2902.52	No
101	Apple sp.	Malus sp.	Retain	Outside Alternative 1 Study Area	NA	NA	244.35	No
102	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	257.60	No
103	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	287.26	No
104	Kentucky Coffeetree	Gymnocladus dioicus	Retain	Outside Alternative 1 Study Area	NA	NA	422.97	No
105	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	247.92	No
106	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	805.50	No
107	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 1 Study Area	NA	NA	7658.23	No
108	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	571.44	No
109	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	547.54	No
110	Mulberry - White	Morus alba	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	299.63	No
111	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	617.49	No
112	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	413.82	No
113	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	387.80	No
114	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
115	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
116	Oak - Red	Quercus rubra	Retain	Outside Alternative 1 Study Area	NA	NA	443.85	No
117	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
118	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Retain	Outside Alternative 1 Study Area	NA	NA	305.64	No
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Retain	Outside Alternative 1 Study Area	NA	NA	305.64	No
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Retain	Outside Alternative 1 Study Area	NA	NA	305.64	No
122	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	247.92	No
123	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	247.92	No
124	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	260.38	No
125	Pine - Austrian	Pinus nigra	Retain	Outside Alternative 1 Study Area	NA	NA	3041.61	No
126	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 1 Study Area	NA	NA	257.60	No
127	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 1 Study Area	NA	NA	213.99	No
128	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	382.76	No
129	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 1 Study Area	NA	NA	358.35	No
130	Pear sp.	Pyrus sp.	Retain	Outside Alternative 1 Study Area	NA	NA	414.41	No
131	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 1 Study Area	NA	NA	230.57	No
132	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 1 Study Area	NA	NA	295.96	No
133	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	365.03	No
134	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	424.35	No
135	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	340.94	No
136	Cottonwood - Eastern	Populus deltoides	Retain	Outside Alternative 1 Study Area	NA	NA	1657.43	No
137	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 1 Study Area	NA	NA	240.06	No
138	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 1 Study Area	NA	NA	226.50	No
139	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 1 Study Area	NA	NA	240.06	No
140	Oak - English	Quercus robur	Retain	Outside Alternative 1 Study Area	NA	NA	8111.92	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
141	Maple - Norway	Acer platanoides	47					47	11	20	Fair	ER, GR, MB, PP, WNC, UW, SC	3	City of Mississauga (Road ROW)	No	No
142	Spruce - White	Picea glauca	30					30	6	35	Fair	LT, CD, CN, PP, UW, RP	1.8	Private	No	No
143	Maple - Silver	Acer saccharinum	61					61	13	15	Good	GC, FK@2M, FK@4M, BR3, PF, 1SD, SC, RP	4.2	City of Mississauga (Road ROW)	No	No
144	Maple - Norway	Acer platanoides	62					62	16	15	Good	FK@2M, UW, PP, WC, 1SD	4.2	Private	No	No
145	Honey-Locust	Gleditsia triacanthos	6					6	1	15	Fair	LT, SL	1.2	City of Mississauga (Road ROW)	No	No
146	Pine - Scots	Pinus sylvestris	26					26	5	25	Fair	LT, PTL, DW, AD (sapsucker), RP	1.8	City of Mississauga (Road ROW)	No	No
147	Maple - Norway	Acer platanoides	32					32	12	35	Fair	BSD, TW, DE, PB, CD, MB, RP	2.4	City of Mississauga (Road ROW)	No	No
148	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, SF	1.5	Private	No	No
149	Apple sp.	Malus sp.	27					27	5	35	Fair	CT, TW, DE, CD, PP, RP	1.8	Private	No	No
150	Mulberry - White	Morus alba	5	5	3			8	3	0	Fair	TK3, PP, SC	1.2	City of Mississauga (Road ROW)	No	No
151	Spruce - White	Picea glauca	35					35	8	20	Fair	LT, 1SD, UW, PL	2.4	Private	No	No
152	Honey-Locust	Gleditsia triacanthos	48					48	8	20	Fair	GC, RH, SC, PP, UW, DW, RP	3	Private	No	No
153	Serviceberry sp.	Amelanchier sp.	1	1	1	1	1	2	1	15	Fair	TK6, SB, RP	2.4	City of Mississauga (Park)	No	Yes
154	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, FS, RP	2.4	City of Mississauga (Park)	No	Yes
155	Birch - White	Betula papyrifera	25					25	0	100	Dead	DW, RM	0	Private	No	No
156	Pine - Austrian	Pinus nigra	45					45	10	15	Good	PP, FK@2M, FS, RP	3	City of Mississauga (Road ROW)	No	No
157	Juniper - Eastern	Juniperus virginiana	10	7	5			13	3	25	Fair	LS, TK3, DW, 1SD, UC	1.5	City of Mississauga (Road ROW)	No	No
158	Douglas-Fir	Pseudotsuga menziesii	30					30	6	10	Good	DC, SF	1.8	City of Mississauga (Road ROW)	No	No
159	Juniper - Eastern	Juniperus virginiana	12	8	8	5		17	4	45	Poor	TK4, SN, LS, 1SD	1.5	City of Mississauga (Road ROW)	No	No
160	Douglas-Fir	Pseudotsuga menziesii	19					19	4	25	Fair	1SD, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
161	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
162	Maple - Manitoba	Acer negundo	6					6	1	25	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
163	Maple - Manitoba	Acer negundo	2					2	1	10	Fair	SP, GTF	1.2	City of Mississauga (Road ROW)	No	No
164	Maple - Freeman	Acer x freemanii	4	3				5	1	15	Fair	TK2, SP, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
165	Ash - White	Fraxinus americana	4					4	1	10	Fair	SL, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
166	Maple - Manitoba	Acer negundo	7	6	5			10	2	10	Fair	TK3, GTF, SL, ML, RP	1.5	City of Mississauga (Road ROW)	No	No
167	Maple - Manitoba	Acer negundo	10	7				12	4	15	Fair	TK2, MB, ML, FS, ST, RP	1.5	City of Mississauga (Road ROW)	No	No
168	Ash - White	Fraxinus americana	11	10				15	6	15	Fair	TK2, EAB, PP, SC, RP	1.5	City of Mississauga (Road ROW)	No	No
169	Cedar - Eastern-White	Thuja occidentalis	15					15	4	0	Good	DC, SF	1.5	Private	No	No
170	Maple - Manitoba	Acer negundo	10	4				11	4	15	Fair	TK2, GTF, PP, ST, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
171	Maple - Silver	Acer saccharinum	53					53	14	15	Good	FK@3M, BR2, SN, MB, FS, RP	3.6	Private	No	No
172	Juniper - Eastern	Juniperus virginiana	31					31	7	25	Fair	PTL, GC, PL, RP	2.4	Private	No	No
173	Juniper - Eastern	Juniperus virginiana	33					33	6	25	Fair	PL, SL, CS, RP	2.4	Private	No	No
174	Mountain-Ash - European	Sorbus aucuparia	12	11				16	4	5	Good	TK2, LS, CT	1.5	Private	No	No
175	Spruce - Colorado	Picea pungens	41					41	5	20	Good	SF, SL, LT	3	City of Mississauga (Road ROW)	No	No
176	Maple - Norway	Acer platanoides	58					58	17	15	Good	MB, RH, DW, FS, UW, SN, RP	3.6	City of Mississauga (Road ROW)	No	No
177	Maple - Silver	Acer saccharinum	61					61	13	15	Good	FK@4M, SN, PF, NST, UW, RP	4.2	City of Mississauga (Road ROW)	No	No
178	Apple sp.	Malus sp.	45					45	9	15	Good	MB, TT, SC, PP, DW, FS, SB, RP	3	City of Mississauga (Road ROW)	No	No
179	Apple sp.	Malus sp.	14					14	0	100	Dead	PB, LN (M), DW, RM	0	Private	No	No
180	Cherry - Sweet	Prunus avium	36					36	9	15	Good	MB, FC, WC, DW, RP	2.4	Private	No	No
181	Mulberry - White	Morus alba	25	24	19	17		43	9	15	Good	TK4, ER, PP, DW, FS, RP	3	City of Mississauga (Road ROW)	No	No
182	Apple sp.	Malus sp.	20	19				28	0	100	Dead	TK2, DW, DE, PF, RM	0	City of Mississauga (Road ROW)	No	No
183	Cherry - Sweet	Prunus avium	57					57	9	30	Fair	MB, PP, PF, ST, FS, RP	3.6	Private	No	No
184	Spruce - Colorado	Picea pungens	55					55	7	10	Good	SF, LT	3.6	Private	No	No
185	Spruce - Colorado	Picea pungens	28					28	5	15	Good	LT, PL, DW, RP	1.8	Private	No	No
186	Spruce - Colorado	Picea pungens	29					29	5	10	Good	LT, DC, SF	1.8	Private	No	No
187	Spruce - Colorado	Picea pungens	41					41	6	10	Good	LT, SF, DC	3	Private	No	No
188	Apple sp.	Malus sp.	17	14	12			25	8	5	Good	TK3, PTL, PP, PC	1.8	City of Mississauga (Road ROW)	No	No
189	Apple sp.	Malus sp.	9					9	4	15	Fair	SC, PC	1.2	City of Mississauga (Road ROW)	No	No
190	Apple sp.	Malus sp.	16	14				21	8	15	Good	TK2, FS, SC, PP, PC, RP	1.8	City of Mississauga (Road ROW)	No	No
191	Cherry - Sweet	Prunus avium	23	21				31	7	15	Good	TK2, PB, PP, SC, PC, IB	2.4	Private	No	No
192	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	10	Fair	TK3, FS, RP	1.2	City of Mississauga (Road ROW)	No	No
193	Cedar - Eastern-White	Thuja occidentalis	3	3	2	2		5	1	0	Fair	TK4, PP, VC	1.2	City of Mississauga (Road ROW)	No	No
194	Mountain-Ash - European	Sorbus aucuparia	7					7	2	5	Fair	DC, SF	1.2	Private	No	No
195	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, PP	1.5	Private	No	No
196	Serviceberry sp.	Amelanchier sp.	1					1	1	25	Fair	SP	1.2	City of Mississauga (Road ROW)	No	No
197	Maple - Manitoba	Acer negundo	23	9	5			25	5	10	Good	TK3, GTF, FK@3M, ETB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
198	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP	1.2	City of Mississauga (Road ROW)	No	No
199	Maple - Norway	Acer platanoides	4	2				4	1	15	Fair	TK2, LS, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
200	Maple - Norway	Acer platanoides	7					7	2	10	Fair	FS, GTF, TD, FK2@2M, SF,	1.2	City of Mississauga (Road ROW)	No	No
201	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP, TK2	1.2	City of Mississauga (Road ROW)	No	No
202	Maple - Manitoba	Acer negundo	18	17	14			28	8	10	Fair	TK3, GTF, ETB, SB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
203	Maple - Norway	Acer platanoides	2	1				2	1	25	Fair	TK2, PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
204	Maple - Norway	Acer platanoides	8					8	1	30	Fair	PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
205	Maple - Manitoba	Acer negundo	14	14	9			22	7	10	Good	TK3, GTF, RH, ST, PP, TD, WNC	1.8	City of Mississauga (Road ROW)	No	No
206	Cherry - Sweet	Prunus avium	6					6	1	15	Fair	PP, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
207	Maple - Manitoba	Acer negundo	4					4	1	20	Fair	GTF, PP, LS, RP	1.2	City of Mississauga (Road ROW)	No	No
208	Maple - Manitoba	Acer negundo	10	5	4			12	3	25	Poor	TK3, LN(M), GTF, SB, ST, PP, ML, RP	1.5	Private	No	No
209	Maple - Norway	Acer platanoides	13	12				18	6	20	Fair	GTF, TK2, PP, TD, WNC, ML PB	1.5	City of Mississauga (Road ROW)	No	No
210	Spruce - Norway	Picea abies	29					29	5	15	Good	PP, 1SD, RP	1.8	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
141	Maple - Norway	Acer platanoides	Retain	Outside Alternative 1 Study Area	NA	NA	3967.48	No
142	Spruce - White	Picea glauca	Retain	Outside Alternative 1 Study Area	NA	NA	1942.38	No
143	Maple - Silver	Acer saccharinum	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	7387.53	No
144	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	8664.70	No
145	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	315.98	No
146	Pine - Scots	Pinus sylvestris	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1043.33	No
147	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1976.06	No
148	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	850.15	No
149	Apple sp.	Malus sp.	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1202.25	No
150	Mulberry - White	Morus alba	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	299.63	No
151	Spruce - White	Picea glauca	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	2544.78	No
152	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4015.32	No
153	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
154	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 1 Study Area	NA	NA	170.47	No
155	Birch - White	Betula papyrifera	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	175.97	No
156	Pine - Austrian	Pinus nigra	Remove	Alternative 1 Impact Area	3	NA	4359.50	Yes
157	Juniper - Eastern	Juniperus virginiana	Remove	Alternative 1 Impact Area	1	NA	407.67	Yes
158	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 1 Impact Area	2	NA	2321.74	Yes
159	Juniper - Eastern	Juniperus virginiana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	2	NA	333.94	Yes
160	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 1 Impact Area	2	NA	866.90	Yes
161	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	NA	117.88	Yes
162	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	NA	105.67	Yes
163	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	NA	75.61	Yes
164	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	NA	NA	280.95	Yes
165	Ash - White	Fraxinus americana	Remove	Alternative 1 Impact Area	NA	NA	187.26	Yes
166	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	NA	165.77	Yes
167	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	NA	207.09	Yes
168	Ash - White	Fraxinus americana	Remove	Alternative 1 Impact Area	1	NA	559.15	Yes
169	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	703.51	No
170	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	NA	185.49	Yes
171	Maple - Silver	Acer saccharinum	Protect - Injury	Alternative 1 Study Area	NA	NA	5642.58	No
172	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 1 Study Area	NA	NA	1621.21	No
173	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 1 Study Area	NA	NA	1817.34	No
174	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 1 Study Area	NA	NA	735.43	No
175	Spruce - Colorado	Picea pungens	Remove	Alternative 1 Study Area	3	NA	4449.09	Yes
176	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 1 Study Area	NA	NA	7623.86	No
177	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	5	NA	7387.53	Yes
178	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	3	NA	3906.96	Yes
179	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	72.81	No
180	Cherry - Sweet	Prunus avium	Protect	Alternative 1 Study Area	NA	NA	2646.72	No
181	Mulberry - White	Morus alba	Protect - Injury	Alternative 1 Study Area	NA	NA	4029.57	No
182	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	206.41	Yes
183	Cherry - Sweet	Prunus avium	Protect	Outside Alternative 1 Study Area	NA	NA	4898.89	No
184	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	7706.32	No
185	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	2275.19	No
186	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 1 Study Area	NA	NA	2413.33	No
187	Spruce - Colorado	Picea pungens	Protect	Alternative 1 Study Area	NA	NA	4449.09	No
188	Apple sp.	Malus sp.	Protect - Injury	Alternative 1 Study Area	NA	NA	1362.25	No
189	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	1	NA	289.43	Yes
190	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	2	NA	1027.81	Yes
191	Cherry - Sweet	Prunus avium	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	2016.44	No
192	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 1 Impact Area	NA	NA	170.47	Yes
193	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	NA	189.34	Yes
194	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 1 Study Area	NA	NA	263.01	No
195	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	920.43	No
196	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 1 Impact Area	NA	NA	165.20	Yes
197	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	NA	850.07	Yes
198	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	NA	220.91	Yes
199	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	NA	282.08	Yes
200	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	NA	337.54	Yes
201	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	NA	220.91	Yes
202	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	NA	808.13	Yes
203	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	NA	261.92	Yes
204	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	NA	362.75	Yes
205	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	NA	679.22	Yes
206	Cherry - Sweet	Prunus avium	Remove	Alternative 1 Impact Area	1	NA	213.99	Yes
207	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	NA	86.88	Yes
208	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	116.91	No
209	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	NA	799.69	Yes
210	Spruce - Norway	Picea abies	Remove	Alternative 1 Impact Area	2	NA	2232.40	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
211	Maple - Manitoba	Acer negundo	5					5	2	30	Poor	GTF, PP, MB, TD, SB, LS	1.2	City of Mississauga (Road ROW)	No	No
212	Spruce - Norway	Picea abies	31					31	5	15	Good	SL, SF	2.4	Private	No	No
213	Apple sp.	Malus sp.	6	6	6	5		12	2	5	Fair	TK4, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
214	Apple sp.	Malus sp.	12					12	3	20	Fair	LT, PP, MB, WNC, SC,	1.5	Private	No	No
215	Cherry - Sweet	Prunus avium	48					48	5	35	Fair	PP, RH, FK@3M, CD, PC, RP	3	Private	No	No
216	Spruce - Colorado	Picea pungens	47					47	6	25	Fair	LT, PL, CD, CN	3	Private	No	No
217	Mulberry - White	Morus alba	8	7	7	5		14	8	10	Good	TK4, PP, TW, WNC, MB, FS, RP, LT	1.5	City of Mississauga (Road ROW)	No	No
218	Spruce - White	Picea glauca	27					27	5	15	Good	ER, LT, PP, DC	1.8	Private	No	No
219	Cedar - Eastern-White	Thuja occidentalis	8	7	5			12	2	0	Fair	LS, PP, CS	1.5	Private	No	No
220	Spruce - White	Picea glauca	35					35	9	5	Good	LT, SF, DC, PP, TW, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
221	Mulberry - White	Morus alba	7	5				9	4	5	Fair	TK2, LN (L), ST, RP	1.2	City of Mississauga (Road ROW)	No	No
222	Cherry - Sweet	Prunus avium	20					20	6	10	Good	PB, TW, WNC, MB, RP	1.5	Private	No	No
223	Maple - Silver	Acer saccharinum	42					42	15	10	Good	LT, FK4@3M, MB, DC, SN, PP, WNC	3	Private	No	No
224	Cherry sp.	Prunus sp.	4	3	3			6	2	15	Fair	TK3, ML, RP	1.2	Private	No	No
225	Cherry sp.	Prunus sp.	7					7	2	10	Fair	1SD, ML, DC	1.2	Private	No	No
226	Pine - Austrian	Pinus nigra	32					32	9	10	Good	LT, PP, TW, WNC, 1SD, DW, BR3	2.4	City of Mississauga (Road ROW)	No	No
227	Pine - Austrian	Pinus nigra	30					30	8	10	Good	LT, LNM, PP, WNC, DW,	1.8	City of Mississauga (Road ROW)	No	No
228	Maple - Silver	Acer saccharinum	12	11	10	9	8	23	5	5	Good	TK8, SB, FS, ML, RP	1.8	Private	No	No
229	Pine - Austrian	Pinus nigra	27					27	8	10	Good	LT, PP, TW, WNC, 1SD, DW	1.8	Private	No	No
230	Spruce - White	Picea glauca	33					33	6	10	Good	DC, SF, PP	4	Private	Yes	No
231	Spruce - White	Picea glauca	21					21	0	100	Hazard	DW, PB, HP, R,	0	Private	Yes	No
232	Maple - Manitoba	Acer negundo	20	19	16	15		35	10	25	Fair	TK4, SB, FS, GTF, PP, UW, SN, CT, VC, RP	6	City of Mississauga (Road ROW)	Yes	No
233	Cedar - Eastern-White	Thuja occidentalis	14	16	14			25	5	35	Fair	LT, PP, CS, BR1, TW, WC, WNC, SF, PF, BSD,	3.5	City of Mississauga (Road ROW)	Yes	No
234	Maple - Norway	Acer platanoides	12					12	4	10	Good	1SD, UC, LS	3	City of Mississauga (Road ROW)	Yes	No
235	Maple - Norway	Acer platanoides	19					19	8	10	Good	LN (L), FK@2M, UW, RP	5	City of Mississauga (Road ROW)	Yes	No
236	Cedar - Eastern-White	Thuja occidentalis	38					38	6	25	Fair	FK2@2M, SF, PP, SN, DW, ER, IB, LT, CS	4	City of Mississauga (Road ROW)	Yes	No
237	Maple - Norway	Acer platanoides	13	10	9			19	7	10	Good	TK3, DW, FS, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
238	Maple - Norway	Acer platanoides	25					25	6	10	Good	GC, FK@2M, UW, RP	4	City of Mississauga (Road ROW)	Yes	No
239	Cedar - Eastern-White	Thuja occidentalis	14	14				20	4	15	Good	LT, TK2, CS, IB, PP, WC, SF	3	City of Mississauga (Road ROW)	Yes	No
240	Maple - Norway	Acer platanoides	19	14	13			27	7	20	Fair	TK3, FS, 1SD, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
241	Maple - Norway	Acer platanoides	18					18	9	10	Good	UW, LT, PP, DW, RP, FK2@2M, BR1	5.5	City of Mississauga (Road ROW)	Yes	No
242	Maple - Norway	Acer platanoides	22					22	6	10	Good	GTF, FK@2M, MB, UW, TW, WNC, DW, RP	4	City of Mississauga (Road ROW)	Yes	No
243	Fir - Balsam	Abies balsamea	25					25	6	10	Good	LT, DC, SF	4	Private	Yes	No
244	Maple - Norway	Acer platanoides	32					32	13	10	Good	GTF, UW, TW, WC, FK2@3M, DW, PP, MB	7.5	City of Mississauga (Road ROW)	Yes	No
245	Maple - Norway	Acer platanoides	43					43	10	70	Poor	LT, GTF, PF, FK3@1.5M, BR3, BSD, WNC, SN, PP, DW, BC, CD, RP, SC	6	City of Mississauga (Park)	Yes	Yes
246	Maple - Norway	Acer platanoides	5	5	5	4	4	10	4	50	Poor	RFS, TK7, DW, GTF, UW, FS, WNC, PB, RP,	3	City of Mississauga (Road ROW)	Yes	No
247	Maple - Norway	Acer platanoides	3					3	2	10	Fair	RFF, GTF, PP	2.4	City of Mississauga (Park)	Yes	Yes
248	Maple - Norway	Acer platanoides	13	15	10			22	6	20	Poor	GTF, LT, UW, PP, MB, PB, DW, RT, RP	4	City of Mississauga (Road ROW)	Yes	No
249	Cherry - Sweet	Prunus avium	5					5	1	5	Fair	GTF, SL, LS	2.4	City of Mississauga (Park)	Yes	Yes
250	Maple - Manitoba	Acer negundo	13	11				17	5	30	Fair	TK2, FS, GTF, LS, RP	3.5	City of Mississauga (Park)	Yes	Yes
251	Maple - Norway	Acer platanoides	18					18	9	10	Good	LT, RH, PP, UW, CS, LNL, RP	5.5	Private	Yes	No
252	Elm - Siberian	Ulmus pumila	61					61	11	10	Good	FK@2M, FK@3M, RH, ST, PF, NST, DC, RP	8.4	City of Mississauga (Park)	Yes	Yes
253	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	FK@2M, GTF, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
254	Maple - Manitoba	Acer negundo	12					12	4	15	Fair	GTF, CT, SL	3	City of Mississauga (Park)	Yes	Yes
255	Maple - Manitoba	Acer negundo	16	17	17	11	19	36	13	20	Fair	PF, GTF, SC, ST, SB, PP, DW, WNC, BR2, IB, TK6	7.5	City of Mississauga (Park)	Yes	Yes
256	Apple sp.	Malus sp.	30	12				32	7	10	Good	TK2, FK@2M, GTF, SB, 1SD, FS, FK@4M, SC, RP	4.8	City of Mississauga (Park)	Yes	Yes
257	Maple - Manitoba	Acer negundo	17	18				25	8	10	Fair	TK2, LNM, ST, SB, RP, MB	5	City of Mississauga	Yes	Yes
258	Maple - Manitoba	Acer negundo	29					29	6	15	Good	GTF, LN (L), CT, SC, RP	4	City of Mississauga (Park)	Yes	Yes
259	Elm - Siberian	Ulmus pumila	45	42				62	8	15	Good	TK2, IB, FS, LN (M), 1SD	8.4	City of Mississauga (Park)	Yes	Yes
260	Maple - Norway	Acer platanoides	4	5	5	4	4	10	3	10	Poor	ML, MB, LNL, LS, 1SD, BSD, RFS, TK5, WC	2.5	City of Mississauga	Yes	Yes
261	Maple - Manitoba	Acer negundo	39	29	20			53	13	25	Fair	TK3, SB, PF, FK@3M, DW, CT, LN (M), RP	7.5	City of Mississauga (Park)	Yes	Yes
262	Maple - Norway	Acer platanoides	16					16	6	10	Good	GTF, SB, ETB, LS, PP, FS	4	City of Mississauga (Park)	Yes	Yes
263	Cottonwood - Eastern	Populus deltoides	78					78	0	100	Hazard	DW, PP, PB, PC, HP, RM	0	City of Mississauga (Park)	Yes	Yes
264	Maple - Manitoba	Acer negundo	4	3	3	3	3	7	5	5	Fair	TK8, BSD, TD, RT, RP, MB, CT, LNL	3.5	City of Mississauga	Yes	Yes
265	Spruce - Colorado	Picea pungens	17					17	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
266	Spruce - Colorado	Picea pungens	16					16	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
267	Maple - Manitoba	Acer negundo	6	4	3	3	3	9	5	10	Fair	TK5, MB, RT, CT, 1SD, LNL, BSD	3.5	City of Mississauga	Yes	Yes
268	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
269	Spruce - Colorado	Picea pungens	5	5				7	2	0	Fair	LT, RH, TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
270	Spruce - White	Picea glauca	12					12	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
271	Maple - Manitoba	Acer negundo	10	7	3	3		13	5	10	Fair	TK4, RT, LNL, LS, 1SD, TW, WC	3.5	City of Mississauga	Yes	Yes
272	Spruce - White	Picea glauca	10					10	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
273	Spruce - White	Picea glauca	10					10	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
274	Spruce - White	Picea glauca	12					12	3	5	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
275	Maple - Manitoba	Acer negundo	9	5	5	5	4	13	5	10	Fair	TK7, MB, RT, LS, CT, ST,	3.5	City of Mississauga	Yes	Yes
276	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
277	Spruce - White	Picea glauca	9					9	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
278	Maple - Manitoba	Acer negundo	8	5	3			10	4	15	Fair	TK3, SB, ST, MB, RT, LS, CT	3	City of Mississauga	Yes	Yes
279	Maple - Manitoba	Acer negundo	5	3	3	3		7	3	15	Fair	TK3, RT, MB, SB, CT, LS, SC	2.5	City of Mississauga	Yes	Yes
280	Pine - Eastern White	Pinus strobus	24					24	5	5	Good	LY, DC, SF	3.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
211	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	53.82	Yes
212	Spruce - Norway	Picea abies	Protect	Alternative 1 Study Area	NA	NA	2504.09	No
213	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	1	NA	378.17	Yes
214	Apple sp.	Malus sp.	Protect	Alternative 1 Study Area	NA	NA	378.17	No
215	Cherry - Sweet	Prunus avium	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	3520.98	No
216	Spruce - Colorado	Picea pungens	Protect	Alternative 1 Study Area	NA	NA	4439.76	No
217	Mulberry - White	Morus alba	Remove	Alternative 1 Impact Area	1	NA	656.01	Yes
218	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	2097.33	No
219	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	401.09	No
220	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	3	NA	3283.58	Yes
221	Mulberry - White	Morus alba	Remove	Alternative 1 Impact Area	1	NA	326.52	Yes
222	Cherry - Sweet	Prunus avium	Protect	Alternative 1 Study Area	NA	NA	960.96	No
223	Maple - Silver	Acer saccharinum	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	3643.17	No
224	Cherry sp.	Prunus sp.	Protect	Alternative 1 Study Area	NA	NA	182.32	No
225	Cherry sp.	Prunus sp.	Protect	Alternative 1 Study Area	NA	NA	199.02	No
226	Pine - Austrian	Pinus nigra	Remove	Alternative 1 Impact Area	3	NA	2348.51	Yes
227	Pine - Austrian	Pinus nigra	Remove	Alternative 1 Impact Area	2	NA	2099.40	Yes
228	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Study Area	NA	NA	1280.22	No
229	Pine - Austrian	Pinus nigra	Protect	Alternative 1 Study Area	NA	NA	1755.86	No
230	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	2958.32	No
231	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	176.07	No
232	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1222.28	Yes
233	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	1256.97	Yes
234	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	3	641.54	Yes
235	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1112.08	Yes
236	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	3	15	2714.29	Yes
237	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1112.08	Yes
238	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1684.55	Yes
239	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	3	1105.30	Yes
240	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1480.30	Yes
241	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1031.85	Yes
242	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1378.80	Yes
243	Fir - Balsam	Abies balsamea	Protect	Alternative 1 Study Area	NA	NA	1165.13	No
244	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	3	15	2549.75	Yes
245	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	3	20	1898.18	Yes
246	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	1	1	238.93	Yes
247	Maple - Norway	Acer platanoides	Protect	Alternative 1 Study Area	NA	NA	270.32	No
248	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	2	10	603.23	Yes
249	Cherry - Sweet	Prunus avium	Protect	Alternative 1 Study Area	NA	NA	197.95	No
250	Maple - Manitoba	Acer negundo	Protect	Alternative 1 Study Area	NA	NA	343.26	No
251	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 1 Study Area	NA	NA	1031.85	No
252	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	4795.81	No
253	Maple - Manitoba	Acer negundo	Protect	Alternative 1 Study Area	NA	NA	117.88	No
254	Maple - Manitoba	Acer negundo	Protect	Alternative 1 Study Area	NA	NA	207.09	No
255	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1288.96	Yes
256	Apple sp.	Malus sp.	Protect	Alternative 1 Study Area	NA	NA	2087.50	No
257	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	658.81	Yes
258	Maple - Manitoba	Acer negundo	Protect	Alternative 1 Study Area	NA	NA	1111.82	No
259	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	4948.78	No
260	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	1	238.93	Yes
261	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	2709.84	No
262	Maple - Norway	Acer platanoides	Protect	Alternative 1 Study Area	NA	NA	884.40	No
263	Cottonwood - Eastern	Populus deltoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	1651.80	Yes
264	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	117.88	Yes
265	Spruce - Colorado	Picea pungens	Protect	Alternative 1 Study Area	NA	NA	1075.54	No
266	Spruce - Colorado	Picea pungens	Protect	Alternative 1 Study Area	NA	NA	995.56	No
267	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	147.93	Yes
268	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	758.01	Yes
269	Spruce - Colorado	Picea pungens	Remove	Alternative 1 Impact Area	1	1	382.76	Yes
270	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	698.22	Yes
271	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	230.57	Yes
272	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	592.99	Yes
273	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	592.99	Yes
274	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	698.22	Yes
275	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	230.57	Yes
276	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	758.01	Yes
277	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	547.54	Yes
278	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	165.77	Yes
279	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	117.88	Yes
280	Pine - Eastern White	Pinus strobus	Remove	Alternative 1 Study Area	NA	10	1689.29	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
281	Pine - Eastern White	Pinus strobus	22					22	4	15	Good	LT, DC, DW, RP	3	Private	Yes	No
282	Pine - Eastern White	Pinus strobus	21					21	3	10	Good	LT, SL, SF	2.5	Private	Yes	No
283	Walnut - Black	Juglans nigra	5	4				6	3	20	Fair	TK2, RT, FS, CR, SF, LS	2.5	City of Mississauga	Yes	Yes
284	Pine - Eastern White	Pinus strobus	23					23	5	0	Good	LT, DC, SF	3.5	Private	Yes	No
285	Spruce - White	Picea glauca	8					8	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
286	Spruce - White	Picea glauca	5	4				6	1	10	Fair	LT, TK2, ML, RP, RH	2.4	City of Mississauga	Yes	Yes
287	Maple - Manitoba	Acer negundo	9					9	5	10	Good	LNL, FK2@2.5M, UC, RP	3.5	City of Mississauga	Yes	Yes
288	Spruce - White	Picea glauca	8					8	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
289	Maple - Manitoba	Acer negundo	4					4	2	15	Fair	LS, SF, LNL, CT, RP	2.4	City of Mississauga	Yes	Yes
290	Spruce - White	Picea glauca	9					9	2	10	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
291	Spruce - White	Picea glauca	7					7	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
292	Maple - Manitoba	Acer negundo	4					4	1	30	Fair	LS, FS, RP, CT, SF	2.4	City of Mississauga	Yes	Yes
293	Spruce - White	Picea glauca	8					8	3	10	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
294	Pine - Eastern White	Pinus strobus	7					7	0	100	Dead	DW, RM	0	Private	Yes	No
295	Pine - Eastern White	Pinus strobus	21					21	5	15	Good	LT, SF	3.5	Private	Yes	No
296	Maple - Manitoba	Acer negundo	4	3	4			6	3	5	Fair	LS, TK2, CT, RT	2.5	City of Mississauga	Yes	Yes
297	Pine - Eastern White	Pinus strobus	19					19	4	5	Good	LT, DC, SF	3	Private	Yes	No
298	Pine - Eastern White	Pinus strobus	18					18	3	25	Fair	LT, DC, SF, CD	2.5	Private	Yes	No
299	Pine - Eastern White	Pinus strobus	20					20	4	10	Fair	FK@2M, LT, ML, RP	3	Private	Yes	No
300	Pine - Eastern White	Pinus strobus	19					19	3	15	Fair	FK@3M, LT, ML, RP	2.5	Private	Yes	No
301	Maple - Norway	Acer platanoides	46					46	10	10	Good	LT, FK@4M, MB, DC, RP	6	Private	Yes	No
302	Elm - Siberian	Ulmus pumila	6					6	2	15	Fair	GTF, 1SD, UC	2.4	City of Mississauga	Yes	Yes
303	Olive - Russian	Elaeagnus angustifolia	69					69	18	30	Good	ER, BSD, DC, FK2@2M, BR3, DW, SC, SN, PP, WNC, RP, PB	10	City of Mississauga	Yes	Yes
304	Ash - White	Fraxinus americana	7					7	2	35	Fair	ML, EAB, PB, RM	2.4	City of Mississauga	Yes	Yes
305	Ash - White	Fraxinus americana	5					5	2	65	Poor	EAB, DW, RM	2.4	City of Mississauga	Yes	Yes
306	Maple - Manitoba	Acer negundo	7	4				8	4	15	Fair	TK2, LS, SF, TD, WC, CT	3	City of Mississauga	Yes	Yes
307	Maple - Manitoba	Acer negundo	11	8				14	5	10	Good	TK2, MB, SC, RP	3.5	City of Mississauga	Yes	Yes
308	Maple - Manitoba	Acer negundo	5	3	3			7	4	20	Fair	LS, TK3, SF, CT, PP, WNC, RT	3	City of Mississauga	Yes	Yes
309	Maple - Manitoba	Acer negundo	17					17	5	5	Good	FK@2M, DC, RP	3.5	City of Mississauga	Yes	Yes
310	Walnut - Black	Juglans nigra	3					3	1	5	Fair	SL, SF	2.4	City of Mississauga	Yes	Yes
311	Maple - Manitoba	Acer negundo	7					7	3	20	Poor	LS, SF, LNM, RH, UC, BSD	2.5	City of Mississauga	Yes	Yes
312	Maple - Sugar	Acer saccharum	14					14	5	5	Good	DC, SF, NST	3.5	City of Mississauga	Yes	Yes
313	Maple - Manitoba	Acer negundo	13					13	8	10	Good	LT, CT, SB, RP	5	City of Mississauga	Yes	Yes
314	Maple - Sugar	Acer saccharum	12					12	4	10	Good	DC, SF	3	City of Mississauga	Yes	Yes
315	Maple - Manitoba	Acer negundo	6	3	2			7	3	20	Fair	TK3, SB, 1SD, LS	2.5	City of Mississauga	Yes	Yes
316	Maple - Manitoba	Acer negundo	25					25	10	10	Good	GTF, FK2@4M, UC, LNL, MB, RP	6	City of Mississauga	Yes	Yes
317	Maple - Sugar	Acer saccharum	14					14	5	5	Good	MB, DC	3.5	City of Mississauga	Yes	Yes
318	Maple - Sugar	Acer saccharum	14					14	5	0	Good	MB, FS, DC, RP	3.5	City of Mississauga	Yes	Yes
319	Spruce - Colorado	Picea pungens	33					33	6	5	Good	LT, PP, SF	4.8	City of Mississauga	Yes	Yes
320	Maple - Sugar	Acer saccharum	13					13	5	5	Good	MB, DC, BR1, FS, RP	3.5	City of Mississauga	Yes	Yes
321	Maple - Sugar	Acer saccharum	15					15	5	5	Good	DC, MB, FS, RP	3.5	City of Mississauga	Yes	Yes
322	Maple - Manitoba	Acer negundo	5	3	2	2		6	4	15	Fair	TK4, LS, 1SD, RP, RT	3	City of Mississauga	Yes	Yes
323	Maple - Norway	Acer platanoides	28					28	10	15	Good	FK2@4M, 1SD, UC, LNL,	6	City of Mississauga	Yes	Yes
324	Maple - Manitoba	Acer negundo	3	3	3			5	3	5	Fair	TK3, RT, SB, RFS	2.5	City of Mississauga	Yes	Yes
325	Maple - Manitoba	Acer negundo	6					6	3	5	Good	RT, SB, RP	2.5	City of Mississauga	Yes	Yes
326	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	Fair	2.4	City of Mississauga	Yes	Yes
327	Spruce - White	Picea glauca	13					13	3	0	Good	LT, SF, DC	2.5	City of Mississauga	Yes	Yes
328	Spruce - White	Picea glauca	13					13	3	5	Good	SF, DC	2.5	City of Mississauga	Yes	Yes
329	Spruce - White	Picea glauca	14					14	4	0	Good	DC, SF	3	City of Mississauga	Yes	Yes
330	Maple - Manitoba	Acer negundo	6	5				8	2	10	Fair	TK2, SB, ML, FK@3M, RP, RT	2.4	City of Mississauga	Yes	Yes
331	Spruce - White	Picea glauca	12					12	3	15	Good	SL, PP, WNC, LS	2.5	City of Mississauga	Yes	Yes
332	Spruce - White	Picea glauca	10					10	3	10	Good	DC, SF	2.5	City of Mississauga	Yes	Yes
333	Spruce - White	Picea glauca	9					9	3	15	Good	LS, 1SD, SF	2.5	City of Mississauga	Yes	Yes
334	Spruce - White	Picea glauca	3					3	1	25	Fair	LS, PL, DW, RP	2.4	City of Mississauga	Yes	Yes
335	Spruce - White	Picea glauca	5					5	2	10	Fair	DC, SF, LS, PL	2.4	City of Mississauga	Yes	Yes
336	Spruce - White	Picea glauca	6					6	2	25	Fair	LS, PL, CD	2.4	City of Mississauga	Yes	Yes
337	Maple - Manitoba	Acer negundo	13					13	4	10	Good	ER, FK@3M, ML, RP	3	City of Mississauga	Yes	Yes
338	Spruce - White	Picea glauca	6					6	2	15	Fair	LS, DC, FS, SF	2.4	City of Mississauga	Yes	Yes
339	Maple - Norway	Acer platanoides	25					25	9	10	Good	CS, 1SD, UC, PP	5.5	City of Mississauga	Yes	Yes
340	Cedar - Eastern-White	Thuja occidentalis	5	4				6	1	10	Fair	TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
341	Apple sp.	Malus sp.	15	15	10			23	4	30	Fair	LS, SC, MB, CT, TK3, DW	3.6	City of Mississauga	Yes	Yes
342	Alder - European	Alnus glutinosa	7					7	2	20	Fair	CT, SL, DE (canker)	2.4	City of Mississauga	Yes	Yes
343	Maple - Norway	Acer platanoides	18					18	8	10	Good	LT, SN, SF	5	City of Mississauga	Yes	Yes
344	Maple - Norway	Acer platanoides	12					12	3	20	Fair	LS, SL, FK2@5M, IB	2.5	City of Mississauga	Yes	Yes
345	Walnut - Black	Juglans nigra	16					16	5	25	Fair	LN (L), CT, FK@6M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
346	Maple - Norway	Acer platanoides	12					12	3	100	Dead	GTF, Dead	0	City of Mississauga	Yes	Yes
347	Maple - Manitoba	Acer negundo	18					18	4	15	Good	TOB, LN (L), CT, 1SD	3	City of Mississauga	Yes	Yes
348	Walnut - Black	Juglans nigra	3					3	2	25	Fair	SP, SL, LS, CT	2.4	City of Mississauga	Yes	Yes
349	Maple - Norway	Acer platanoides	23	4				23	7	10	Good	1SS, UC, ER, TK2, RT	4.5	City of Mississauga	Yes	Yes
350	Maple - Norway	Acer platanoides	12	11	8			18	4	20	Good	TK3, TOB, SL, RP, RT	3	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
281	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 1 Study Area	NA	NA	1469.26	No
282	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 1 Study Area	NA	NA	1366.42	No
283	Walnut - Black	Juglans nigra	Remove	Alternative 1 Impact Area	1	1	315.91	Yes
284	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 1 Study Area	NA	NA	1576.88	No
285	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	506.89	Yes
286	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	340.94	Yes
287	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	190.87	Yes
288	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	506.89	Yes
289	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	86.88	Yes
290	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	547.54	Yes
291	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	471.01	Yes
292	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	86.88	Yes
293	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	506.89	Yes
294	Pine - Eastern White	Pinus strobus	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	53.61	No
295	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	1366.42	No
296	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	105.67	Yes
297	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	1175.08	No
298	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	842.11	No
299	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	982.98	No
300	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	910.69	No
301	Maple - Norway	Acer platanoides	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	4917.67	No
302	Elm - Siberian	Ulmus pumila	Remove	Alternative 1 Impact Area	1	1	165.03	Yes
303	Olive - Russian	Elaeagnus angustifolia	Remove	Alternative 1 Impact Area	5	40	8717.27	Yes
304	Ash - White	Fraxinus americana	Remove	Alternative 1 Impact Area	1	1	245.97	Yes
305	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	1	114.75	Yes
306	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	131.96	Yes
307	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	330.23	Yes
308	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	117.88	Yes
309	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	3	442.92	Yes
310	Walnut - Black	Juglans nigra	Remove	Alternative 1 Impact Area	NA	1	271.20	Yes
311	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	1	66.54	Yes
312	Maple - Sugar	Acer saccharum	Remove	Alternative 1 Impact Area	1	3	849.32	Yes
313	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	297.51	Yes
314	Maple - Sugar	Acer saccharum	Remove	Alternative 1 Impact Area	1	3	721.64	Yes
315	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	117.88	Yes
316	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	850.07	Yes
317	Maple - Sugar	Acer saccharum	Remove	Alternative 1 Impact Area	1	3	849.32	Yes
318	Maple - Sugar	Acer saccharum	Remove	Alternative 1 Impact Area	1	3	849.32	Yes
319	Spruce - Colorado	Picea pungens	Remove	Alternative 1 Impact Area	3	15	3014.36	Yes
320	Maple - Sugar	Acer saccharum	Remove	Alternative 1 Impact Area	1	3	783.03	Yes
321	Maple - Sugar	Acer saccharum	Remove	Alternative 1 Impact Area	1	3	920.53	Yes
322	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	105.67	Yes
323	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	2029.33	Yes
324	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	95.34	Yes
325	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	136.34	Yes
326	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	86.88	Yes
327	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	758.01	Yes
328	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	758.01	Yes
329	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	822.58	Yes
330	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	131.96	Yes
331	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	3	698.22	Yes
332	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	592.99	Yes
333	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	547.54	Yes
334	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	NA	1	290.89	Yes
335	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	NA	1	320.55	Yes
336	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	340.94	Yes
337	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	297.51	Yes
338	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	1	1	340.94	Yes
339	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1684.55	Yes
340	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	208.92	Yes
341	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	2	10	920.51	Yes
342	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	225.00	Yes
343	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1031.85	Yes
344	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	3	497.19	Yes
345	Walnut - Black	Juglans nigra	Remove	Alternative 1 Impact Area	2	3	680.19	Yes
346	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	80.19	Yes
347	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	3	485.33	Yes
348	Walnut - Black	Juglans nigra	Remove	Alternative 1 Impact Area	NA	1	271.20	Yes
349	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1476.38	Yes
350	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1031.85	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
351	Maple - Manitoba	Acer negundo	17	14				22	0	100	Dead	TK2, BOB, CT, DW, PB, RM	0	City of Mississauga	Yes	Yes
352	Maple - Silver	Acer saccharinum	6	4				7	4	20	Poor	TK2, ER, RH, SL, LNL, growing out of rip rap	3	City of Mississauga	Yes	Yes
353	Maple - Norway	Acer platanoides	32					32	10	15	Good	BOB, GTF, MB, SN, RP	6	City of Mississauga	Yes	Yes
354	Maple - Norway	Acer platanoides	34					34	11	10	Good	ER, TOB, MB, FS, SN, RP	6.5	Private	Yes	No
355	Maple - Norway	Acer platanoides	23	22				32	11	10	Good	TK2, IB, ER, SN, FS	6.5	City of Mississauga	Yes	Yes
356	Maple - Sugar	Acer saccharum	27					27	6	35	Fair	FK@4M, TOB, SL, RH, CD, DW, RP	4	Private	Yes	No
357	Spruce - White	Picea glauca	5					5	1	60	Poor	LS, 1SD, CD, UC	2.4	City of Mississauga	Yes	Yes
358	Maple - Norway	Acer platanoides	16					16	4	10	Good	GTF, BOB, FK@6M, ML, RP	3	City of Mississauga	Yes	Yes
359	Maple - Norway	Acer platanoides	14	12				18	5	15	Good	TK2, BOB, GTF, SN	3.5	City of Mississauga	Yes	Yes
360	Maple - Manitoba	Acer negundo	16					16	6	100	Dead	BSD, DW, Dead	0	City of Mississauga	Yes	Yes
361	Cherry - Sweet	Prunus avium	21	18	11	10		31	3	45	Poor	TK4, CD, CS, DW, RP	2.5	Private	Yes	No
362	Maple - Norway	Acer platanoides	6	5				8	4	15	Poor	PF, GTF, TK2, SL, LS, BSD, WNC	3	City of Mississauga	Yes	Yes
363	Maple - Manitoba	Acer negundo	40					40	9	25	Fair	ER, SB, TOB, FK@2M, LN (M), 1SD, UC, DW, RP	5.5	City of Mississauga	Yes	Yes
364	Elm - Siberian	Ulmus pumila	8					8	4	10	Fair	RB, CT, 1SD, ML, RP	3	Private	Yes	No
365	Ash - White	Fraxinus americana	3					3	2	35	Fair	SL, LS	2.4	City of Mississauga	Yes	Yes
366	Ash - White	Fraxinus americana	18					18	0	100	Dead	EAB, DW, SN, RM	0	City of Mississauga	Yes	Yes
367	Maple - Silver	Acer saccharinum	53	44				69	18	20	Good	TK2, IB, SC, SN, DW, DC, RP, RT	10	City of Mississauga	Yes	Yes
368	Elm - Siberian	Ulmus pumila	31					31	6	25	Fair	1SD, NST, SN, CD	4	Private	Yes	No
369	Maple - Manitoba	Acer negundo	3	2	2	2	2	5	2	20	Poor	RFS, TK5, DW, RT	2.4	City of Mississauga	Yes	Yes
370	Elm - Siberian	Ulmus pumila	8					8	2	50	Poor	TOB, LN(L), 1SD	2	Private	Yes	No
371	Maple - Norway	Acer platanoides	4					4	1	20	Fair	SL, LS, CT	1.5	Private	Yes	No
372	Ash - White	Fraxinus americana	4					4	0	100	Dead	DW, RM	0	Private	Yes	No
373	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
374	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
375	Elm - Siberian	Ulmus pumila	23					23	6	20	Fair	LN (M), CT, DW, SL, RP	4	Private	Yes	No
376	Maple - Norway	Acer platanoides	15	16				22	10	10	Good	TK2, TD, WNC, SN, PP, UC, 1SD	6	City of Mississauga	Yes	Yes
377	Spruce - White	Picea glauca	19					19	6	15	Good	LS, PP, WC,	4	City of Mississauga	Yes	Yes
378	Maple - Manitoba	Acer negundo	31					31	8	10	Good	MOB, LN(L), DE, CT, PF, RP	5	Private	Yes	No
379	Maple - Silver	Acer saccharinum	27	38	24			52	16	15	Good	TK3, DC, BR1, PP, WNC, DW	9	City of Mississauga	Yes	Yes
380	Ash - White	Fraxinus americana	4	3				5	1	25	Fair	TK2, SL, RT	1.5	Private	Yes	No
381	Maple - Manitoba	Acer negundo	30	11	10	10		35	11	40	Fair	TK4, GC, LN (M), CT, DW, 1SD, UC, RP	6.5	Private	Yes	No
382	Maple - Silver	Acer saccharinum	27	48				55	17	10	Good	TK2, FK2@1.5M, DC, CT	9.5	City of Mississauga	Yes	Yes
383	Ash - White	Fraxinus americana	18					18	0	100	Dead	LN (L), EAB, PB, DW, RM	0	Private	Yes	No
384	Apple sp.	Malus sp.	12	7				14	5	15	Good	TK2, LN (L), 1SD, UC, LS, RP	3.5	Private	Yes	No
385	Maple - Silver	Acer saccharinum	73					73	20	10	Good	FK2@1.4M, IB, SC, MB, FS, RP, PP, WNC, SN	11	City of Mississauga	Yes	Yes
386	Ash - White	Fraxinus americana	3	2				4	0	100	Dead	TK2, DW, RM	0	Private	Yes	No
387	Maple - Manitoba	Acer negundo	44					44	13	15	Fair	TT, CV, LN (L), CT, 1SD, UC, SB, SC, FS, PF, RP	7.5	Private	Yes	No
388	Maple - Silver	Acer saccharinum	49					49	16	15	Good	TW, WNC, SC, LNL, UC, RP	9	City of Mississauga	Yes	Yes
389	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, PB, DW, RM	0	Private	Yes	No
390	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, TK2, DW, Topped	0	Private	Yes	No
391	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
392	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
393	Maple - Manitoba	Acer negundo	16					16	4	40	Poor	CT, LN (L), DW, LS, SL	3	Private	Yes	No
394	Ash - White	Fraxinus americana	3					3	1	15	Fair	SP, SL, LS	1.5	Private	Yes	No
395	Spruce - White	Picea glauca	19					19	3	100	Dead	LS, DW, PB	0	Private	Yes	No
396	Ash - White	Fraxinus americana	5	4	3			7	3	30	Fair	TK3, EAB, SL, RM	2.5	Private	Yes	No
397	Spruce - White	Picea glauca	33					33	5	15	Good	ER, CT, UC, DW	4.8	City of Mississauga	Yes	Yes
398	Maple - Manitoba	Acer negundo	30	29				42	13	35	Poor	TK2, LN (H), DW, MB, CT, FS, RP	7.5	Private	Yes	No
399	Maple - Norway	Acer platanoides	9	4				10	6	10	Fair	TK2, TOB, ER, LS, SF, RT	4	Private	Yes	No
400	Ash - Green	Fraxinus pennsylvanica	3	2				4	1	10	Good	TK2, LS	2.4	City of Mississauga	Yes	Yes
401	Ash - White	Fraxinus americana	20					20	0	100	Dead	EAB, DW, MB, RM	0	Private	Yes	No
402	Maple - Norway	Acer platanoides	11					11	5	10	Good	BOB, LS, UC, DW	3.5	Private	Yes	No
403	Maple - Manitoba	Acer negundo	41					41	14	25	Fair	LN (L), FK@2M, DE, 1SD	8	Private	Yes	No
404	Maple - Norway	Acer platanoides	9	3				9	3	15	Good	BOB, SL, UC, TK2	2.5	Private	Yes	No
405	Maple - Norway	Acer platanoides	7					7	3	15	Fair	MOB, LS, SF	2.5	Private	Yes	No
406	Maple - Manitoba	Acer negundo	15					15	3	60	Poor	LN (H), DW, CD, RM	2.5	Private	Yes	No
407	Maple - Norway	Acer platanoides	3	2	2			4	3	10	Fair	TK3, LS, RT	2.5	Private	Yes	No
408	Maple - Norway	Acer platanoides	7	5				9	4	15	Fair	TK2, RT, UC, FS, RP, LS, TW, WC	3	City of Mississauga	Yes	Yes
409	Ash - White	Fraxinus americana	27					27	0	100	Fair	EAB, DW, BOB, DW, RM	3.6	City of Mississauga	Yes	Yes
410	Ash - White	Fraxinus americana	7					7	0	100	Dead	LN (M), BOB, ER, DW, RM	0	City of Mississauga	Yes	Yes
411	Ash - White	Fraxinus americana	12	12				17	4	100	Dead	RPM, TK2, PB, DW, fallen into creek	0	City of Mississauga	Yes	Yes
412	Cedar - Eastern-White	Thuja occidentalis	4	4				6	1	15	Fair	TK2, LS, DC	2.4	City of Mississauga	Yes	Yes
413	Cedar - Eastern-White	Thuja occidentalis	4	3				5	1	10	Good	LS, TK2, RT	2.4	City of Mississauga	Yes	Yes
414	Cedar - Eastern-White	Thuja occidentalis	5					5	1	10	Fair	DC, SF, PP	2.4	City of Mississauga	Yes	Yes
415	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	1	10	Good	TK4, LS, DC	2.4	City of Mississauga	Yes	Yes
416	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	15	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
417	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	10	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
418	Cedar - Eastern-White	Thuja occidentalis	4	4	3	3	2	7	2	10	Good	TK6, LS	2.4	City of Mississauga	Yes	Yes
419	Cedar - Eastern-White	Thuja occidentalis	3	1				3	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
420	Cedar - Eastern-White	Thuja occidentalis	4	3				5	2	5	Good	TK2, DC, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
351	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	84.90	Yes
352	Maple - Silver	Acer saccharinum	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	1	158.30	Yes
353	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	3	15	2549.75	Yes
354	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 1 Study Area	NA	NA	2835.98	No
355	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	3	15	2549.75	Yes
356	Maple - Sugar	Acer saccharum	Protect	Alternative 1 Study Area	NA	NA	1672.50	No
357	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	1	180.96	Yes
358	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	884.40	Yes
359	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1031.85	Yes
360	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	50.37	Yes
361	Cherry - Sweet	Prunus avium	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	15	882.19	No
362	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	1	204.78	Yes
363	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1574.45	Yes
364	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	192.02	No
365	Ash - White	Fraxinus americana	Remove	Alternative 1 Impact Area	NA	1	174.80	Yes
366	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	118.60	Yes
367	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	5	40	9377.37	Yes
368	Elm - Siberian	Ulmus pumila	Protect - Injury	Alternative 1 Study Area	NA	NA	1056.57	No
369	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	1	53.82	Yes
370	Elm - Siberian	Ulmus pumila	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	1	108.40	No
371	Maple - Norway	Acer platanoides	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	282.08	No
372	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	30.20	No
373	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	2	3	1015.62	Yes
374	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	2	3	1015.62	Yes
375	Elm - Siberian	Ulmus pumila	Protect - Injury	Alternative 1 Study Area	NA	NA	640.20	No
376	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1378.80	Yes
377	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	2	3	1217.20	Yes
378	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	1257.23	No
379	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	4	30	5441.68	Yes
380	Ash - White	Fraxinus americana	Protect	Alternative 1 Study Area	NA	NA	203.27	No
381	Maple - Manitoba	Acer negundo	Protect - Injury	Alternative 1 Study Area	NA	NA	1222.28	No
382	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	4	30	6055.86	Yes
383	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	118.60	No
384	Apple sp.	Malus sp.	Protect	Alternative 1 Study Area	NA	NA	582.48	No
385	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	5	50	10464.14	Yes
386	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	30.20	No
387	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	1889.99	No
388	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	4	20	4861.95	Yes
389	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	48.86	No
390	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	48.86	No
391	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	2	10	1091.62	Yes
392	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	2	10	1091.62	Yes
393	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	3	176.28	No
394	Ash - White	Fraxinus americana	Protect	Alternative 1 Study Area	NA	NA	174.80	No
395	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	152.15	No
396	Ash - White	Fraxinus americana	Protect	Alternative 1 Study Area	NA	NA	245.97	No
397	Spruce - White	Picea glauca	Remove	Alternative 1 Impact Area	3	15	2958.32	Yes
398	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	20	975.75	No
399	Maple - Norway	Acer platanoides	Protect	Alternative 1 Study Area	NA	NA	423.25	No
400	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 1 Impact Area	NA	1	219.71	Yes
401	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	140.41	No
402	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 1 Study Area	NA	NA	591.66	No
403	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	1650.52	No
404	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 1 Study Area	NA	NA	504.93	No
405	Maple - Norway	Acer platanoides	Protect	Alternative 1 Study Area	NA	NA	337.54	No
406	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	3	159.85	No
407	Maple - Norway	Acer platanoides	Protect	Alternative 1 Study Area	NA	NA	282.08	No
408	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	391.32	Yes
409	Ash - White	Fraxinus americana	Protect	Alternative 1 Study Area	NA	NA	1455.96	No
410	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	39.67	Yes
411	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Study Area	NA	NA	108.55	Yes
412	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	208.92	Yes
413	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	244.31	Yes
414	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	189.34	Yes
415	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	269.57	Yes
416	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
417	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
418	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	299.42	Yes
419	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	160.87	Yes
420	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	244.31	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
421	Cedar - Eastern-White	Thuja occidentalis	5					5	2	10	Fair	TK2, FS, RP	2.4	City of Mississauga	Yes	Yes
422	Cedar - Eastern-White	Thuja occidentalis	5	5				7	2	25	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
423	Cedar - Eastern-White	Thuja occidentalis	4	4	4	3		8	2	10	Good	TK4, LS	2.4	City of Mississauga	Yes	Yes
424	Cedar - Eastern-White	Thuja occidentalis	3	2	1			4	1	25	Fair	TK3, ML, RP	2.4	City of Mississauga	Yes	Yes
425	Cedar - Eastern-White	Thuja occidentalis	5	3	2			6	1	5	Good	LS, TK3	2.4	City of Mississauga	Yes	Yes
426	Cedar - Eastern-White	Thuja occidentalis	3	2				4	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
427	Cedar - Eastern-White	Thuja occidentalis	5					5	2	30	Fair	SF, LS	2.4	City of Mississauga	Yes	Yes
428	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	1	10	Good	LS, FS, TK5	2.4	City of Mississauga	Yes	Yes
429	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	1	6	2	15	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
430	Cedar - Eastern-White	Thuja occidentalis	3	2	2	1		4	1	15	Fair	TK4, LS, FS, RP	2.4	City of Mississauga	Yes	Yes
431	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2	2	5	1	10	Fair	TK6, FS, LS	2.4	City of Mississauga	Yes	Yes
432	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2		5	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
433	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	2	30	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
434	Cedar - Eastern-White	Thuja occidentalis	3	3	3	2		6	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
435	Cedar - Eastern-White	Thuja occidentalis	4	4				6	3	15	Fair	TK2, DC, RP	2.5	City of Mississauga	Yes	Yes
436	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	2	10	Fair	TK4, DC, RP	2.4	City of Mississauga	Yes	Yes
437	Cedar - Eastern-White	Thuja occidentalis	3	3				4	1	15	Good	LS, TK2, FS, MB	2.4	City of Mississauga	Yes	Yes
438	Cedar - Eastern-White	Thuja occidentalis	4	3	3	3		7	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga	Yes	Yes
439	Cedar - Eastern-White	Thuja occidentalis	4	3	3			6	2	10	Good	TK3, ML, LS, FS	2.4	City of Mississauga	Yes	Yes
440	Maple - Norway	Acer platanoides	34					34	6	25	Fair	PP, 1SD, UC, FK@4M	4	Private	Yes	No
441	Spruce - Colorado	Picea pungens	17					17	2	85	Poor	CD, DW, SL, PP, RM	2	City of Mississauga (Road ROW)	Yes	No
442	Maple - Manitoba	Acer negundo	4	4				6	2	5	Good	LT, TK2	2	Private	Yes	No
443	Walnut - Black	Juglans nigra	11					11	5	15	Good	CS, MB, ML, RP	3.5	Private	Yes	No
444	Spruce - Colorado	Picea pungens	30					30	8	25	Fair	CD, DW, DC, SF	5	Private	Yes	No
445	Alder - European	Alnus glutinosa	7					7	3	25	Good	LNM, DW, BR1, SB	2.5	City of Mississauga	Yes	Yes
446	Alder - European	Alnus glutinosa	8	3				9	2	30	Good	TK2, SL, DW	2.4	City of Mississauga	Yes	Yes
447	Maple - Silver	Acer saccharinum	7	5	3			9	3	10	Fair	TK3, RH, FS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
448	Alder - European	Alnus glutinosa	11	9				14	4	10	Good	TK2, SL, SF, RT	3	City of Mississauga	Yes	Yes
449	Maple - Manitoba	Acer negundo	9					9	2	20	Good	SL, LS, DW	2.4	City of Mississauga	Yes	Yes
450	Maple - Manitoba	Acer negundo	13	10	9	9		21	7	10	Good	TK4, MB, ML, RP, RT	4.5	City of Mississauga	Yes	Yes
451	Maple - Manitoba	Acer negundo	15	10				18	6	25	Fair	MB, RP, DW	4	City of Mississauga	Yes	Yes
452	Maple - Manitoba	Acer negundo	9	7				11	5	20	Good	MB, RT, RP, DW, CT, SB	3.5	City of Mississauga	Yes	Yes
453	Maple - Silver	Acer saccharinum	14	13	12			23	5	5	Good	TK3, SB, FS, SN, CT, ML, RP	3.6	City of Mississauga	Yes	Yes
454	Alder - European	Alnus glutinosa	9					9	2	15	Good	SL, SF, DE (canker)	2.4	City of Mississauga	Yes	Yes
455	Alder - European	Alnus glutinosa	7					7	1	25	Good	DE, SL, LS, DW	2.4	City of Mississauga	Yes	Yes
456	Maple - Manitoba	Acer negundo	9	7				11	4	15	Fair	TK2, SL, CT, DW, RT	3	City of Mississauga	Yes	Yes
457	Maple - Manitoba	Acer negundo	8	8	7	6		15	7	15	Good	TK4, UC, RT, RP, TD, MB	4.5	City of Mississauga	Yes	Yes
458	Maple - Silver	Acer saccharinum	17					17	4	10	Good	FK@2M, SL, RP	3	City of Mississauga	Yes	Yes
459	Alder - European	Alnus glutinosa	10	9	5			14	5	15	Good	TK3, DW, DE, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
460	Maple - Manitoba	Acer negundo	24					24	6	10	Good	LN (L), FK@3M, DW, RP	4	City of Mississauga	Yes	Yes
461	Maple - Manitoba	Acer negundo	5	5	7	5	4	12	8	20	Good	RT, TK8, LS, MB, CT	5	City of Mississauga	Yes	Yes
462	Alder - European	Alnus glutinosa	12					12	2	20	Good	DE, DW	2.4	City of Mississauga	Yes	Yes
463	Maple - Manitoba	Acer negundo	24					24	6	15	Good	LN (L), CT, TT, DW, 1SD, RP	4	City of Mississauga	Yes	Yes
464	Maple - Manitoba	Acer negundo	21					21	6	10	Good	LN (L), FK@4M, DW, FS, RP	4	City of Mississauga	Yes	Yes
465	Alder - European	Alnus glutinosa	10					10	3	30	Good	DW, SL	2.5	City of Mississauga	Yes	Yes
466	Maple - Manitoba	Acer negundo	4	4				6	2	20	Good	LS, RT, TK2, CT	2.4	City of Mississauga	Yes	Yes
467	Maple - Silver	Acer saccharinum	9					9	3	15	Fair	LN (L), CT, 1SD, LD	2.5	City of Mississauga	Yes	Yes
468	Alder - European	Alnus glutinosa	12					12	2	60	Fair	DE (canker), DW, CD, SL	2.4	City of Mississauga	Yes	Yes
469	Alder - European	Alnus glutinosa	8	5				9	3	30	Fair	TK2, DE, LN (L), 1SD, RP	2.5	City of Mississauga	Yes	Yes
470	Alder - European	Alnus glutinosa	7					7	2	30	Fair	SL, SF, DE	2.4	City of Mississauga	Yes	Yes
471	Maple - Freeman	Acer x freemanii	19					19	5	10	Good	SB, FK2@2M, RP, MB	3.5	City of Mississauga	Yes	Yes
472	Alder - European	Alnus glutinosa	11					11	3	15	Good	SF, SL, DE	2.5	City of Mississauga	Yes	Yes
473	Maple - Manitoba	Acer negundo	5					5	2	10	Good	LS, CT, SL	2.4	City of Mississauga	Yes	Yes
474	Maple - Freeman	Acer x freemanii	17					17	4	10	Good	TK2, RH, FS, BR1, SL, RP	3	City of Mississauga	Yes	Yes
475	Alder - European	Alnus glutinosa	5	4	4			8	2	40	Good	TK3, RT, DW	2.4	City of Mississauga	Yes	Yes
476	Alder - European	Alnus glutinosa	9	7				11	3	15	Good	TK2, SF, SL, DE, RT	2.5	City of Mississauga	Yes	Yes
477	Alder - European	Alnus glutinosa	8					8	3	30	Fair	DW, DE, SL	2.5	City of Mississauga	Yes	Yes
478	Alder - European	Alnus glutinosa	6	6	5	5		11	5	25	Good	DE, DW, TD, RT, WNC	3.5	City of Mississauga	Yes	Yes
479	Maple - Freeman	Acer x freemanii	16					16	4	5	Good	FK@2M, FK@5M, 1SD, SL, RP	3	City of Mississauga	Yes	Yes
480	Maple - Manitoba	Acer negundo	5	4	3	3		8	4	20	Good	TK4, RT, LS, DW	3	City of Mississauga	Yes	Yes
481	Maple - Manitoba	Acer negundo	25	21				33	11	10	Good	TK2, IB, DW, ER, FK@4M, 1SD, DC, RP	6.5	City of Mississauga	Yes	Yes
482	Alder - European	Alnus glutinosa	13	7	6	3		16	5	30	Good	DE, TK4, RT, DW	3.5	City of Mississauga	Yes	Yes
483	Maple - Manitoba	Acer negundo	3	3	5			7	3	20	Good	TK3, RT, LS, CT	2.5	City of Mississauga	Yes	Yes
484	Alder - European	Alnus glutinosa	7					7	2	10	Fair	SL, 1SD, DE	2.4	City of Mississauga	Yes	Yes
485	Alder - European	Alnus glutinosa	7	7	3	4		11	5	20	Good	TK4, RT, DE, DW, SL	3.5	City of Mississauga	Yes	Yes
486	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
487	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
488	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
489	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
490	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
421	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	189.34	Yes
422	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	232.05	Yes
423	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	333.86	Yes
424	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
425	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	269.57	Yes
426	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
427	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	189.34	Yes
428	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	269.57	Yes
429	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	208.92	Yes
430	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
431	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	189.34	Yes
432	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	244.31	Yes
433	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	208.92	Yes
434	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	269.57	Yes
435	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	208.92	Yes
436	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	208.92	Yes
437	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	223.65	Yes
438	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	232.05	Yes
439	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	1	1	269.57	Yes
440	Maple - Norway	Acer platanoides	Protect	Alternative 1 Study Area	NA	NA	2197.89	No
441	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	470.55	No
442	Maple - Manitoba	Acer negundo	Protect	Alternative 1 Study Area	NA	NA	136.34	No
443	Walnut - Black	Juglans nigra	Protect	Outside Alternative 1 Study Area	NA	NA	589.23	No
444	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 1 Study Area	NA	NA	1981.14	No
445	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	290.32	Yes
446	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	337.26	Yes
447	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	1	1	327.87	Yes
448	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	505.95	Yes
449	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	190.87	Yes
450	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	627.11	Yes
451	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	3	376.13	Yes
452	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	239.34	Yes
453	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	2	10	1280.22	Yes
454	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	337.26	Yes
455	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	290.32	Yes
456	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	185.49	Yes
457	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	365.37	Yes
458	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	2	3	821.03	Yes
459	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	505.95	Yes
460	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	790.70	Yes
461	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	267.21	Yes
462	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	429.68	Yes
463	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	790.70	Yes
464	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	627.11	Yes
465	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	365.13	Yes
466	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	136.34	Yes
467	Maple - Silver	Acer saccharinum	Remove	Alternative 1 Impact Area	1	1	327.87	Yes
468	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	333.00	Yes
469	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	261.38	Yes
470	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	225.00	Yes
471	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	2	3	1058.97	Yes
472	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	395.94	Yes
473	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	123.01	Yes
474	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	2	3	909.73	Yes
475	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	312.33	Yes
476	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	395.94	Yes
477	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	242.05	Yes
478	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	395.94	Yes
479	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	2	3	841.33	Yes
480	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	170.27	Yes
481	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1412.33	Yes
482	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	2	3	593.97	Yes
483	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	152.10	Yes
484	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	225.00	Yes
485	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	395.94	Yes
486	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	2	3	909.73	Yes
487	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	365.13	Yes
488	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	2	3	909.73	Yes
489	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	365.13	Yes
490	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	365.13	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
491	Alder - European	Alnus glutinosa	7	6	5	5	3	12	6	20	Good	TK7, RT, BSD, DE, DW	4	City of Mississauga	Yes	Yes
492	Maple - Freeman	Acer x freemanii	6	2				6	3	25	Fair	TK2, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
493	Alder - European	Alnus glutinosa	6	4	6			9	5	5	Good	TK3, RT, DE, DW	3.5	City of Mississauga	Yes	Yes
494	Maple - Freeman	Acer x freemanii	8					8	2	5	Fair	SL, SF, ML, RP	2.4	City of Mississauga	Yes	Yes
495	Maple - Manitoba	Acer negundo	9					9	5	10	Fair	BOB, CT, SB, ST, FK@4M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
496	Maple - Manitoba	Acer negundo	21	17				27	9	25	Good	TK2, IB, PF, WNC, PP, SC, MB, RP	5.5	City of Mississauga	Yes	Yes
497	Ash - Green	Fraxinus pennsylvanica	5	4				6	0	100	Dead	TK2, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
498	Ash - Green	Fraxinus pennsylvanica	14					14	4	50	Poor	EAB, AD, SF, CD, RM	3	City of Mississauga	Yes	Yes
499	Apple sp.	Malus sp.	12	9				15	3	25	Fair	TK2, BOB, SC, DW, MB, FS, RP	2.5	City of Mississauga	Yes	Yes
500	Maple - Manitoba	Acer negundo	3					3	2	35	Fair	BOB, LN (M), LS, CT	2.4	City of Mississauga	Yes	Yes
501	Maple - Manitoba	Acer negundo	15					15	5	20	Fair	FS, SB, LNM, UC	3.5	City of Mississauga	Yes	Yes
502	Ash - White	Fraxinus americana	14	12	12			22	5	100	Dead	PB, FS, DW, BSD	0	City of Mississauga	Yes	Yes
503	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
504	Ash - White	Fraxinus americana	14	13				19	6	100	Dead	PB, DW, VC, ER	0	City of Mississauga	Yes	Yes
505	Hawthorn sp.	Crataegus sp.	7					7	3	30	Fair	DW, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
506	Hawthorn sp.	Crataegus sp.	16	8	7	6	6	21	6	20	Fair	TK5, FS, FK@2M, RP, RT	4	City of Mississauga	Yes	Yes
507	Apple sp.	Malus sp.	22	16	16			32	5	40	Fair	TK3, LNM, 1SD, UC, ER, DW	4.8	City of Mississauga	Yes	Yes
508	Maple - Manitoba	Acer negundo	30					30	8	15	Fair	LN (H), MOB, FS, ST, RP	5	City of Mississauga	Yes	Yes
509	Ash - White	Fraxinus americana	26					26	5	100	Dead	ER, BSD, CT, DW, PB	0	City of Mississauga	Yes	Yes
510	Apple sp.	Malus sp.	14					14	5	25	Fair	BOB, LN (M), SB, CT, SC, DW, RP	3.5	City of Mississauga	Yes	Yes
511	Ash - Green	Fraxinus pennsylvanica	23					23	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
512	Hawthorn sp.	Crataegus sp.	15	11	10	7	7	23	4	25	Fair	TK5, FS, CT, DW, RP, RT	3.6	City of Mississauga	Yes	Yes
513	Hawthorn sp.	Crataegus sp.	18	7	8	13	6	25	7	30	Fair	CT, TK4, UC, MB, DW, LS	4.5	City of Mississauga	Yes	Yes
514	Ash - White	Fraxinus americana	14	8				16	6	80	Poor	CD, PB, DW, LNM, TK2, LS	4	City of Mississauga	Yes	Yes
515	Serviceberry sp.	Amelanchier sp.	11	9	5	4		16	4	10	Good	TK4, FS, 1SD, UC, LS, RP	3	City of Mississauga	Yes	Yes
516	Ash - Black	Fraxinus nigra	13					13	0	100	Dead	BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
517	Ash - Green	Fraxinus pennsylvanica	20					20	8	75	Poor	BSD, TD, PB, DW, ER	5	City of Mississauga	Yes	Yes
518	Maple - Manitoba	Acer negundo	6	5				8	3	15	Fair	TK2, BOB, SL, RT	2.5	City of Mississauga	Yes	Yes
519	Ash - Black	Fraxinus nigra	6					6	1	100	Dead	SB, DW, PB, ER	0	City of Mississauga	Yes	Yes
520	Hawthorn sp.	Crataegus sp.	13	12	9	8	6	22	5	20	Fair	TK5, FS, CT, LS, RP	3.6	City of Mississauga	Yes	Yes
521	Hawthorn sp.	Crataegus sp.	5	3				6	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
522	Cherry - Sweet	Prunus avium	6					6	3	25	Fair	LN (L), 1SD, CT, LS	2.5	City of Mississauga	Yes	Yes
523	Hawthorn sp.	Crataegus sp.	22	21	21	14	6	40	9	35	Fair	TK8, MB, FS, IB, RP, DW, ER	5.5	City of Mississauga	Yes	Yes
524	Maple - Norway	Acer platanoides	9					9	4	15	Fair	SL, FS, RT, LS, UC	3	City of Mississauga	Yes	Yes
525	Maple - Norway	Acer platanoides	14	13	12	9	7	25	6	5	Good	TK5, MOB, FS, 1SD, RP	4	City of Mississauga	Yes	Yes
526	Maple - Norway	Acer platanoides	12	9	8	7	4	19	5	15	Good	TK5, BOB, ER, FS, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
527	Hawthorn sp.	Crataegus sp.	16	7				17	5	40	Fair	TK2, DW, ER, FK2@2M, PB, RP	3.5	City of Mississauga	Yes	Yes
528	Maple - Norway	Acer platanoides	11					11	4	10	Good	TOB, 1SD, FK@3M, UC, RP	3	City of Mississauga	Yes	Yes
529	Maple - Norway	Acer platanoides	14					14	5	30	Fair	DW, ER, FS, SL,	3.5	City of Mississauga	Yes	Yes
530	Maple - Norway	Acer platanoides	11	11	9	8	6	21	7	10	Good	TK6, BOB, FS, DW, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
531	Maple - Norway	Acer platanoides	22					22	6	10	Good	LN (L), 1SD, FK@3M, SN2	4	City of Mississauga	Yes	Yes
532	Maple - Manitoba	Acer negundo	26					26	0	100	Dead	LN (H), CT, PB, DW, RM	0	City of Mississauga	Yes	Yes
533	Hawthorn sp.	Crataegus sp.	8	7				11	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
534	Hawthorn sp.	Crataegus sp.	17	13	10			24	5	15	Good	TK3, PP, ST, SC, RP	3.6	City of Mississauga	Yes	Yes
535	Hawthorn sp.	Crataegus sp.	19	17	16	16	9	35	7	10	Good	TK5, FS, ML, ST, RP	4.8	City of Mississauga	Yes	Yes
536	Hawthorn sp.	Crataegus sp.	14	13	11	10	9	26	4	35	Fair	TK6, CT, 1SD, UC, LS, RP	3.6	City of Mississauga (Park)	Yes	Yes
537	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, ML, RP	2.4	City of Mississauga	Yes	Yes
538	Maple - Manitoba	Acer negundo	33					33	11	10	Good	SB, TW, WNC, LN (L), FK@3M, DC, RP	6.5	City of Mississauga (Park)	Yes	Yes
539	Maple - Norway	Acer platanoides	5					5	2	15	Fair	SP, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
540	Hawthorn sp.	Crataegus sp.	10					10	2	40	Poor	MB, LS, CD	2.4	City of Mississauga	Yes	Yes
541	Apple sp.	Malus sp.	34	31	31	28	14	64	8	20	Fair	TK7, FS, SB, ST, SC, PF, DW, RP	8.4	City of Mississauga	Yes	Yes
542	Hawthorn sp.	Crataegus sp.	19	12				22	5	15	Good	TK2, FS, SN, 1SD, RP	3.6	City of Mississauga	Yes	Yes
543	Ash - White	Fraxinus americana	44	35				56	0	100	Dead	TK2, SB, PF, BC, DW, RM	0	City of Mississauga	Yes	Yes
544	Hawthorn sp.	Crataegus sp.	13	12	10	8		22	0	100	Dead	TK4, PF, BC, RM	0	City of Mississauga	Yes	Yes
545	Maple - Manitoba	Acer negundo	3					3	1	15	Fair	LN(M), LS, 1SD, SP	2.4	City of Mississauga	Yes	Yes
546	Apple sp.	Malus sp.	29	18				34	4	50	Poor	TK2, FS, ST, SC, 1SD, PF, CT, VC, RP	4.8	City of Mississauga	Yes	Yes
547	Maple - Manitoba	Acer negundo	27	24				36	6	10	Good	TK2, BOB, LN (L), PF, FS, RP	4.8	City of Mississauga	Yes	Yes
548	Maple - Manitoba	Acer negundo	24	23				33	8	30	Fair	TK2, LN (M), BSD, WNC, VC, 1SD, CT, UC, RP	5	City of Mississauga	Yes	Yes
549	Maple - Manitoba	Acer negundo	31	16				35	11	30	Fair	LN (H), PF, LG, FK@2M, SB, CT, VC, FS, SC, RP	6.5	City of Mississauga	Yes	Yes
550	Hawthorn sp.	Crataegus sp.	20	15	14			29	5	25	Fair	TK2, MOB, FS, CT, DW, 1SD, RP	3.6	City of Mississauga	Yes	Yes
551	Hawthorn sp.	Crataegus sp.	12	7				14	5	10	Fair	TK2, LN (L), LS, FK@2M	3.5	City of Mississauga	Yes	Yes
552	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN (L), EAB, PB, DW, SB, BOB, RM	0	City of Mississauga	Yes	Yes
553	Hawthorn sp.	Crataegus sp.	8	6	4	4		11	4	30	Fair	TK4, LN (L), BOB, ST, RT	3	City of Mississauga	Yes	Yes
554	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN(L), EAB, SB, DW, RM	0	City of Mississauga	Yes	Yes
555	Maple - Manitoba	Acer negundo	7	6	4	4		11	5	15	Fair	TK4, BOB, LS, SL, RT	3.5	City of Mississauga	Yes	Yes
556	Ash - Green	Fraxinus pennsylvanica	30					30	0	100	Dead	RPM, LG, EAB, DW, RM	0	City of Mississauga	Yes	Yes
557	Hawthorn sp.	Crataegus sp.	20	19				28	4	35	Fair	TK2, MOB, PF, DW, SL, RP	3.6	City of Mississauga	Yes	Yes
558	Hawthorn sp.	Crataegus sp.	18	8	7			21	4	20	Fair	TK3, DW, CT, RP	3.6	City of Mississauga	Yes	Yes
559	Maple - Norway	Acer platanoides	6					6	3	10	Fair	FS, SP, LS	2.5	City of Mississauga	Yes	Yes
560	Maple - Norway	Acer platanoides	5	3				6	2	10	Fair	TK2, TOB, SL, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
491	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	3	429.68	Yes
492	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	1	1	298.62	Yes
493	Alder - European	Alnus glutinosa	Remove	Alternative 1 Impact Area	1	1	337.26	Yes
494	Maple - Freeman	Acer x freemanii	Remove	Alternative 1 Impact Area	1	1	343.60	Yes
495	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	147.93	Yes
496	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	976.10	Yes
497	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	32.88	Yes
498	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	3	266.89	Yes
499	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	1	3	492.27	Yes
500	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	80.31	Yes
501	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	283.16	Yes
502	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	164.52	Yes
503	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	131.55	Yes
504	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	129.22	Yes
505	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	1	1	237.30	Yes
506	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	837.94	Yes
507	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	3	15	1617.81	Yes
508	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	2	10	917.07	Yes
509	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	219.62	Yes
510	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	1	3	451.42	Yes
511	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	166.51	Yes
512	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	972.78	Yes
513	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1119.87	Yes
514	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	2	3	346.79	Yes
515	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 1 Impact Area	2	3	790.51	Yes
516	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	56.89	Yes
517	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	2	3	460.42	Yes
518	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	131.96	Yes
519	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	26.68	Yes
520	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	903.82	Yes
521	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	1	1	217.38	Yes
522	Cherry - Sweet	Prunus avium	Remove	Alternative 1 Impact Area	1	1	213.99	Yes
523	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	15	2613.81	Yes
524	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	391.32	Yes
525	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1684.55	Yes
526	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	3	1112.08	Yes
527	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	3	605.04	Yes
528	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	3	591.66	Yes
529	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	3	584.58	Yes
530	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1285.56	Yes
531	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1378.80	Yes
532	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	113.98	Yes
533	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	56.07	Yes
534	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1348.12	Yes
535	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	15	2631.25	Yes
536	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1198.02	Yes
537	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	270.32	Yes
538	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1412.33	Yes
539	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	297.21	Yes
540	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	1	178.07	Yes
541	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	5	40	5945.27	Yes
542	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1166.23	Yes
543	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	925.63	Yes
544	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	145.78	Yes
545	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	80.31	Yes
546	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	3	15	1018.25	Yes
547	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1663.17	Yes
548	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1094.56	Yes
549	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	3	15	1222.28	Yes
550	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1450.84	Yes
551	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	1	3	462.54	Yes
552	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	131.55	Yes
553	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	1	3	347.62	Yes
554	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	131.55	Yes
555	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	185.49	Yes
556	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	267.07	Yes
557	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1363.50	Yes
558	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	837.94	Yes
559	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	315.69	Yes
560	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	315.69	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
561	Hawthorn sp.	Crataegus sp.	21	16	13	11	6	32	6	20	Fair	TK5, FS, CT, 1SD, LN (L), RP, RT	4.8	City of Mississauga	Yes	Yes
562	Maple - Norway	Acer platanoides	28					28	7	5	Good	DC, SF, SN	4.5	City of Mississauga	Yes	Yes
563	Hawthorn sp.	Crataegus sp.	17	12	9			23	6	15	Fair	TK3, CT, SN, DW, RP	4	City of Mississauga	Yes	Yes
564	Apple sp.	Malus sp.	28	13				31	6	30	Fair	TK2, PF, DW, LN (M), RP	4.8	City of Mississauga	Yes	Yes
565	Maple - Norway	Acer platanoides	5					5	1	10	Fair	MOB, SP, LS	2.4	City of Mississauga	Yes	Yes
566	Hawthorn sp.	Crataegus sp.	19	17	16			30	5	25	Fair	TK3, TW, WNC, DE, FS, CT, RP	3.6	City of Mississauga	Yes	Yes
567	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
568	Maple - Norway	Acer platanoides	7					7	3	10	Fair	CT, SL, LS	2.5	City of Mississauga	Yes	Yes
569	Hawthorn sp.	Crataegus sp.	20	8				22	2	30	Poor	TK2, CT, LN (H), ST, SC	3.6	City of Mississauga	Yes	Yes
570	Maple - Manitoba	Acer negundo	9					9	2	10	Fair	ER, SL, SF	2.4	City of Mississauga	Yes	Yes
571	Hawthorn sp.	Crataegus sp.	20	19	19	18	13	40	9	35	Fair	TK7, FK@2M, TOB, DW, FS, CD, RP	5.5	City of Mississauga	Yes	Yes
572	Hawthorn sp.	Crataegus sp.	24	20	19	19	14	44	7	20	Fair	TK5, MOB, LN (L), 1SD, RP	6	City of Mississauga	Yes	Yes
573	Maple - Norway	Acer platanoides	7	3				8	4	10	Fair	TK2, MOB, SL, LS, RT	3	City of Mississauga	Yes	Yes
574	Maple - Norway	Acer platanoides	8	5				9	3	10	Fair	TK2, SL, SN, RT	2.5	City of Mississauga	Yes	Yes
575	Maple - Norway	Acer platanoides	5	5	4			8	3	10	Fair	TK3, TOB, SL, RT	2.5	City of Mississauga	Yes	Yes
576	Hawthorn sp.	Crataegus sp.	16	14				21	9	10	Good	TK2, GTF, FS, SC, RP	5.5	City of Mississauga (Park)	Yes	Yes
577	Hawthorn sp.	Crataegus sp.	16	15	10	8		25	8	15	Good	TK4, TOB, FS, RP	5	City of Mississauga (Park)	Yes	Yes
578	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
579	Hawthorn sp.	Crataegus sp.	21	13	10	10	8	30	10	35	Fair	TK, MOB, VC, FS, CD, DW, RP	6	City of Mississauga	Yes	Yes
580	Hawthorn sp.	Crataegus sp.	13	12	11	10		23	5	30	Fair	TK4, LN (H), DW, FS, RP	3.6	City of Mississauga	Yes	Yes
581	Maple - Manitoba	Acer negundo	5	5	5	5	4	11	5	10	Fair	TK6, SP, SL, RT	3.5	City of Mississauga	Yes	Yes
582	Maple - Manitoba	Acer negundo	8	6	5	4		12	5	10	Fair	TK4, LN (L), BOB, RT	3.5	City of Mississauga	Yes	Yes
583	Ash - Green	Fraxinus pennsylvanica	12					12	0	100	Dead	RPM, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
584	Maple - Norway	Acer platanoides	4					4	1	10	Good	SP, SL	2.4	City of Mississauga	Yes	Yes
585	Hawthorn sp.	Crataegus sp.	22	17				28	7	10	Fair	TK2, LN (L), FK@3M, FS, 1SD, RP	4.5	City of Mississauga	Yes	Yes
586	Ash - Green	Fraxinus pennsylvanica	3					3	1	10	Fair	SP, BOB	2.4	City of Mississauga	Yes	Yes
587	Maple - Manitoba	Acer negundo	3	3				4	2	5	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
588	Ash - Green	Fraxinus pennsylvanica	14	10				17	0	100	Dead	TK2, LN (H), RPM, EAB, DW, RM	0	City of Mississauga	Yes	Yes
589	Maple - Manitoba	Acer negundo	4					4	2	10	Fair	SL, SML, RP	2.4	City of Mississauga	Yes	Yes
590	Hawthorn sp.	Crataegus sp.	22					22	6	15	Good	FK@3M, LN (L), CT, SC, RP	4	City of Mississauga	Yes	Yes
591	Maple - Manitoba	Acer negundo	3					3	1	10	Fair	SP	2.4	City of Mississauga	Yes	Yes
592	Maple - Norway	Acer platanoides	3	3				4	2	0	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
593	Hawthorn sp.	Crataegus sp.	27	25	23	21	20	52	10	30	Fair	TK6, TT, CT, DW, SC, FS, RP	7.2	City of Mississauga	Yes	Yes
594	Hawthorn sp.	Crataegus sp.	31	28				42	10	15	Good	TK2, TOB, CV, CT, SN, DW, RP	6	City of Mississauga (Park)	Yes	Yes
595	Maple - Norway	Acer platanoides	3	3	3	3		6	4	10	Fair	TK4, SP, SL, RT	3	City of Mississauga	Yes	Yes
596	Maple - Norway	Acer platanoides	4					4	2	10	Fair	TOB, SL, SP, LS	2.4	City of Mississauga	Yes	Yes
597	Hawthorn sp.	Crataegus sp.	38	32	24	23	23	64	14	15	Fair	TK6, LN (H), PF, LG, FK@3M, CT, TT, CV, GTF, ETB, SC, SN, DW, RP	8.4	City of Mississauga	Yes	Yes
598	Maple - Norway	Acer platanoides	21	14				25	7	15	Good	TK2, ER, MOB, FK@3M, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
599	Maple - Norway	Acer platanoides	9					9	5	10	Fair	LN (L), LS, 1SD, ML, RP	3.5	City of Mississauga	Yes	Yes
600	Hawthorn sp.	Crataegus sp.	10					10	3	15	Fair	LN (M), CT, SL	2.5	City of Mississauga	Yes	Yes
601	Apple sp.	Malus sp.	28	27				39	7	25	Fair	TK2, FS, SB, ST, SC, LN (M), 1SD, PF, RP	4.8	City of Mississauga	Yes	Yes
602	Hawthorn sp.	Crataegus sp.	12	11	9			19	3	50	Poor	TK3, LN (L), DW, RP	2.5	City of Mississauga	Yes	Yes
603	Maple - Norway	Acer platanoides	4					4	2	10	Fair	CT, SP, LS	2.4	City of Mississauga	Yes	Yes
604	Hawthorn sp.	Crataegus sp.	11	6				13	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
605	Hawthorn sp.	Crataegus sp.	17	16	9			25	5	15	Good	TK3, BOB, TT, DW, RP	3.6	City of Mississauga	Yes	Yes
606	Hawthorn sp.	Crataegus sp.	15	9				17	4	10	Fair	TK2, VC, LN (M), SC, RP	3	City of Mississauga	Yes	Yes
607	Hawthorn sp.	Crataegus sp.	10					10	1	70	Poor	CT, BOB, DW, RM	2.4	City of Mississauga	Yes	Yes
608	Hawthorn sp.	Crataegus sp.	22	16	15			31	11	15	Good	TK3, FS, RH, FK@2M, LN (L), DW,,RP	6.5	City of Mississauga	Yes	Yes
609	Apple sp.	Malus sp.	10					10	0	100	Dead	BOB, DW, RM	0	City of Mississauga	Yes	Yes
610	Apple sp.	Malus sp.	17	13	10	8	6	26	0	100	Dead	TK8, DW, BOB, RM	0	City of Mississauga	Yes	Yes
611	Maple - Norway	Acer platanoides	5					5	2	15	Fair	BOB, CT, ML, LS	2.4	City of Mississauga	Yes	Yes
612	Maple - Norway	Acer platanoides	3					3	2	10	Fair	SP, BOB, LS	2.4	City of Mississauga	Yes	Yes
613	Maple - Norway	Acer platanoides	3	2				4	1	0	Fair	TK2, CT, LS, RP	2.4	City of Mississauga	Yes	Yes
614	Ash - Green	Fraxinus pennsylvanica	14					14	0	100	Dead	RPM, LN (M), EAB, DW, RM	0	City of Mississauga	Yes	Yes
615	Ash - Green	Fraxinus pennsylvanica	3					3	1	15	Fair	BOB, SP, SL	2.4	City of Mississauga	Yes	Yes
616	Hawthorn sp.	Crataegus sp.	21	20	20	9	8	37	9	20	Fair	TK7, BOB, GTF, ER, SN, RP	5.5	City of Mississauga	Yes	Yes
617	Hawthorn sp.	Crataegus sp.	16	14	14	12	9	30	5	45	Poor	TK5, BOB, GTF, PB, DW, PF, RP	3.6	City of Mississauga	Yes	Yes
618	Apple sp.	Malus sp.	51					51	6	20	Fair	TOB, GTF, PP, PC, SC, RP	7.2	City of Mississauga	Yes	Yes
619	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
620	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
621	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
622	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
623	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
624	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
625	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
626	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
627	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
628	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
629	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
630	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
561	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	15	1731.24	Yes
562	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	2029.33	Yes
563	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	972.78	Yes
564	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	3	15	1529.06	Yes
565	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	297.21	Yes
566	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1541.24	Yes
567	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	86.88	Yes
568	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	337.54	Yes
569	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	2	10	510.22	Yes
570	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	1	147.93	Yes
571	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	15	2613.81	Yes
572	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	20	3128.65	Yes
573	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	362.75	Yes
574	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	391.32	Yes
575	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	362.75	Yes
576	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1081.21	Yes
577	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1445.00	Yes
578	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	270.32	Yes
579	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1541.24	Yes
580	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	972.78	Yes
581	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	185.49	Yes
582	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	1	3	207.09	Yes
583	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	62.16	Yes
584	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	363.98	Yes
585	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1363.50	Yes
586	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 1 Impact Area	NA	1	158.51	Yes
587	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	86.88	Yes
588	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	101.46	Yes
589	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	86.88	Yes
590	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1166.23	Yes
591	Maple - Manitoba	Acer negundo	Remove	Alternative 1 Impact Area	NA	1	80.31	Yes
592	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	282.08	Yes
593	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	4	30	4305.41	Yes
594	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	20	3696.90	Yes
595	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	315.69	Yes
596	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	282.08	Yes
597	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	5	40	6438.30	Yes
598	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	2	10	1684.55	Yes
599	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	1	1	391.32	Yes
600	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	1	1	315.44	Yes
601	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	3	15	2317.92	Yes
602	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	2	3	403.83	Yes
603	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	282.08	Yes
604	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	67.93	Yes
605	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	10	1445.00	Yes
606	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	2	3	605.04	Yes
607	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	1	1	178.07	Yes
608	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	15	2109.30	Yes
609	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	51.00	Yes
610	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	181.87	Yes
611	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	297.21	Yes
612	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	270.32	Yes
613	Maple - Norway	Acer platanoides	Remove	Alternative 1 Impact Area	NA	1	282.08	Yes
614	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	NA	NA	76.25	Yes
615	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 1 Impact Area	NA	1	158.51	Yes
616	Hawthorn sp.	Crataegus sp.	Remove	Alternative 1 Impact Area	3	15	2259.86	Yes
617	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 1 Impact Area	2	10	870.05	Yes
618	Apple sp.	Malus sp.	Remove	Alternative 1 Impact Area	4	30	3839.29	Yes
619	Cherry - Sweet	Prunus avium	Protect	Alternative 1 Study Area	NA	NA	5694.63	No
620	Cherry - Sweet	Prunus avium	Protect	Alternative 1 Study Area	NA	NA	5694.63	No
621	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
622	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
623	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
624	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
625	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
626	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
627	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
628	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	2	10	929.57	Yes
629	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
630	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
631	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
632	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
633	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
634	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
635	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
636	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
637	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
638	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
639	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
640	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
641	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
642	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
643	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
644	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
645	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
646	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
647	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
648	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
649	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 1	Location Category - Alternative 1	Mississauga Compensation - Alternative 1	TRCA Compensation - Alternative 1	Tree Valuation (Trunk Formula) - $	Alternative 1 - Tree Value Needed (Y/N)
631	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
632	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
633	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
634	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
635	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	173.33	No
636	Cedar - Eastern-White	Thuja occidentalis	Protect - Injury	Alternative 1 Study Area	NA	NA	173.33	No
637	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Study Area	NA	1	173.33	No
638	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
639	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
640	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 1 Impact Area	NA	1	173.33	Yes
641	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	173.33	No
642	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	173.33	No
643	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
644	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
645	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 1 Study Area	NA	NA	173.33	No
646	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
647	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
648	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No
649	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 1 Study Area	NA	NA	173.33	No

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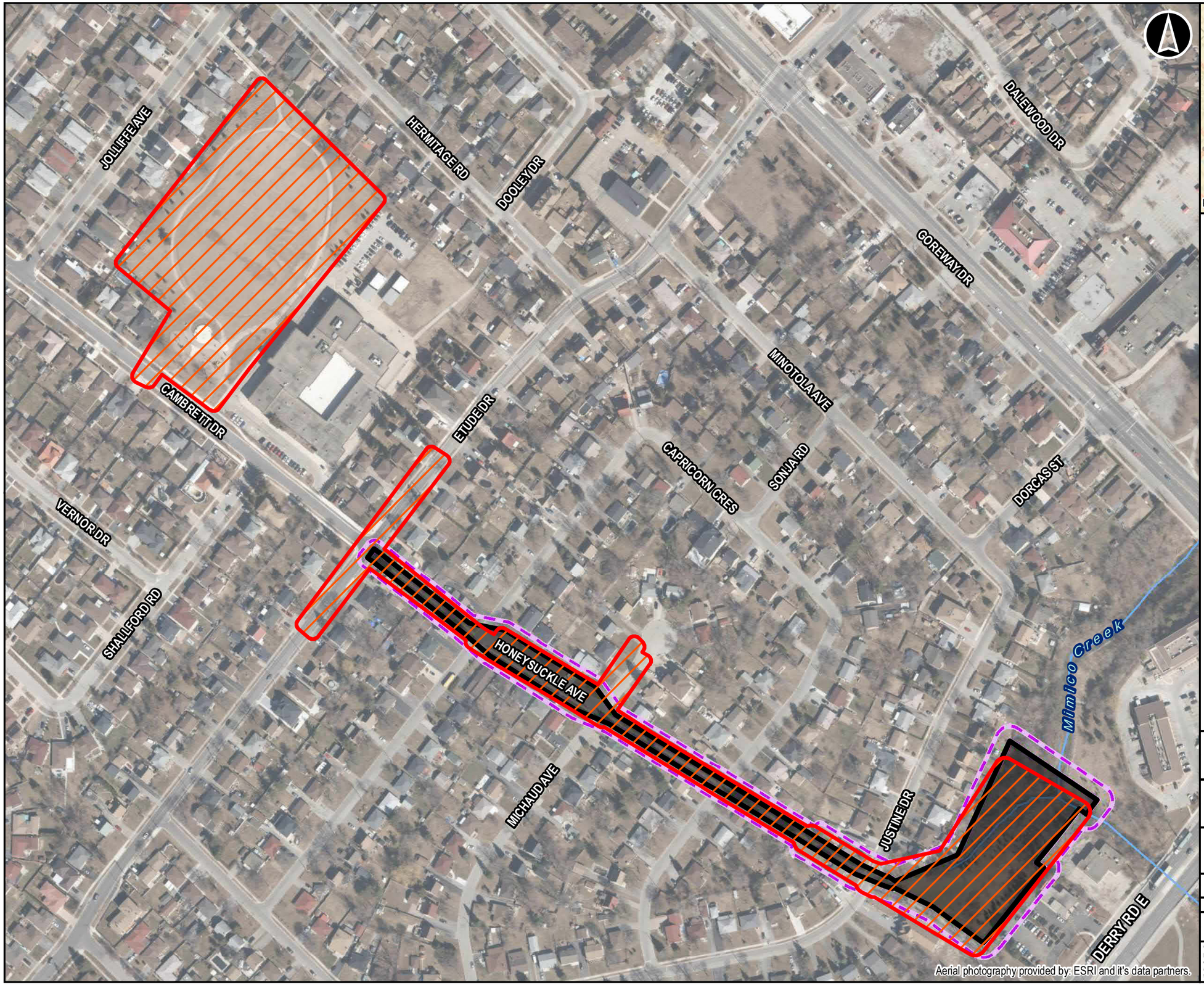
Appendix B2-B6

Alternative 1 Tree Inventory and Preservation Plan



Legend

- Preliminary Tree Inventory Study Area
- Alternative 1 Impact Area
- Alternative 1 Study Area
- Watercourse

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 1

Tree Protection and Preservation Plan

0 20 40 80 120 160
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:2,500 * when printed 11"x17"	Data Sources: MECP, MMAH
P#:60620089	Rev:00	

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Appendix B2

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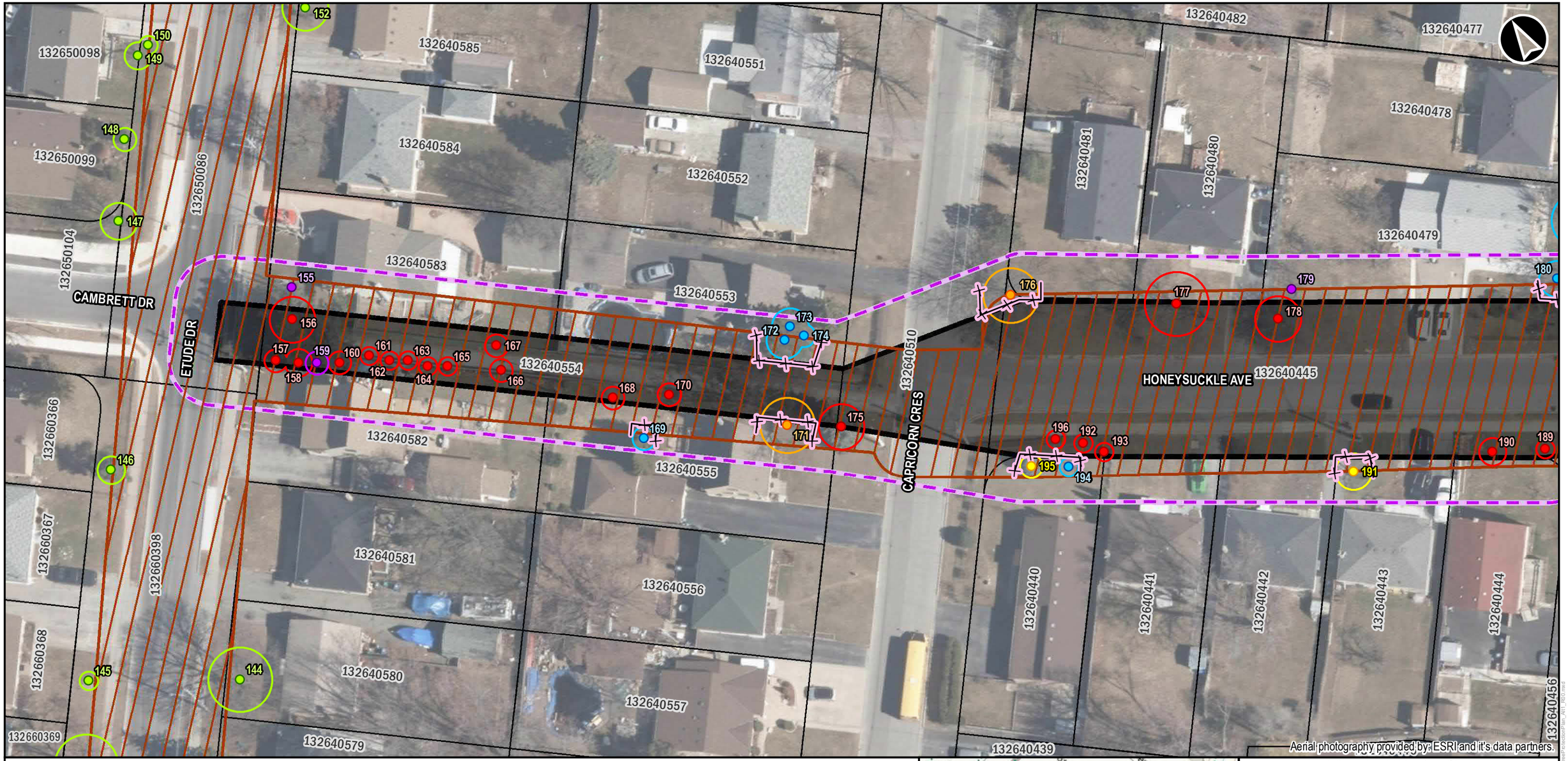
Map location: E:\PR\60620\28_Malton Flood\Design\01_Reports\ArboristReport_2021\01\MXD_60620089_TreeProtectionPlan_HighLevel_Alt1_R00.mxd
Date Saved: 1/15/2023 3:12:01 AM User Name: oriarx



Aerial photography provided by: ESRI and it's data partners.

Legend

- Alternative 1 Study Area
- Alternative 1 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 1

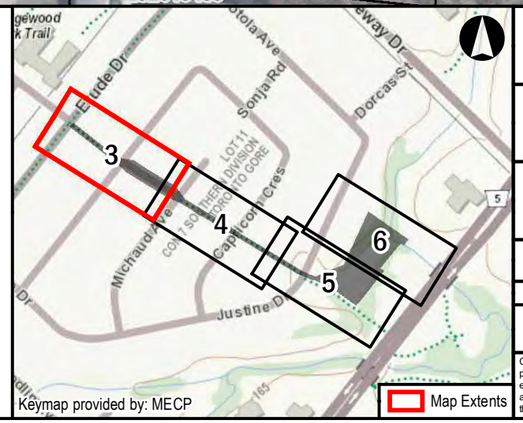
- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree
- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Keymap provided by: MECP

Map Extents

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 1

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix B3

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Map Location: E:\Projects\60620089 Malton Flood Design\01_Reports\Appendix\Report_Figs\TRANS_B60620089_Report_Appendix_A01_B03.mxd
Date Saved: 1/15/2021 2:19:55 AM User Name: crivas

Aerial photography provided by: ESRI and it's data partners.

Legend

- Alternative 1 Study Area
- Alternative 1 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

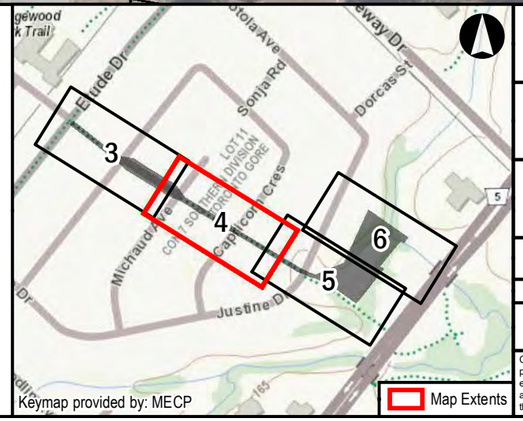
Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Keymap provided by: MECP

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 1

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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File Location: E:\Projects\60620089 Malton Flood Design\01_Reports\Appendices\Report_Figs\TPP\MXD_Docs\Etude_Justine_Alternative_Plan_TPP.mxd
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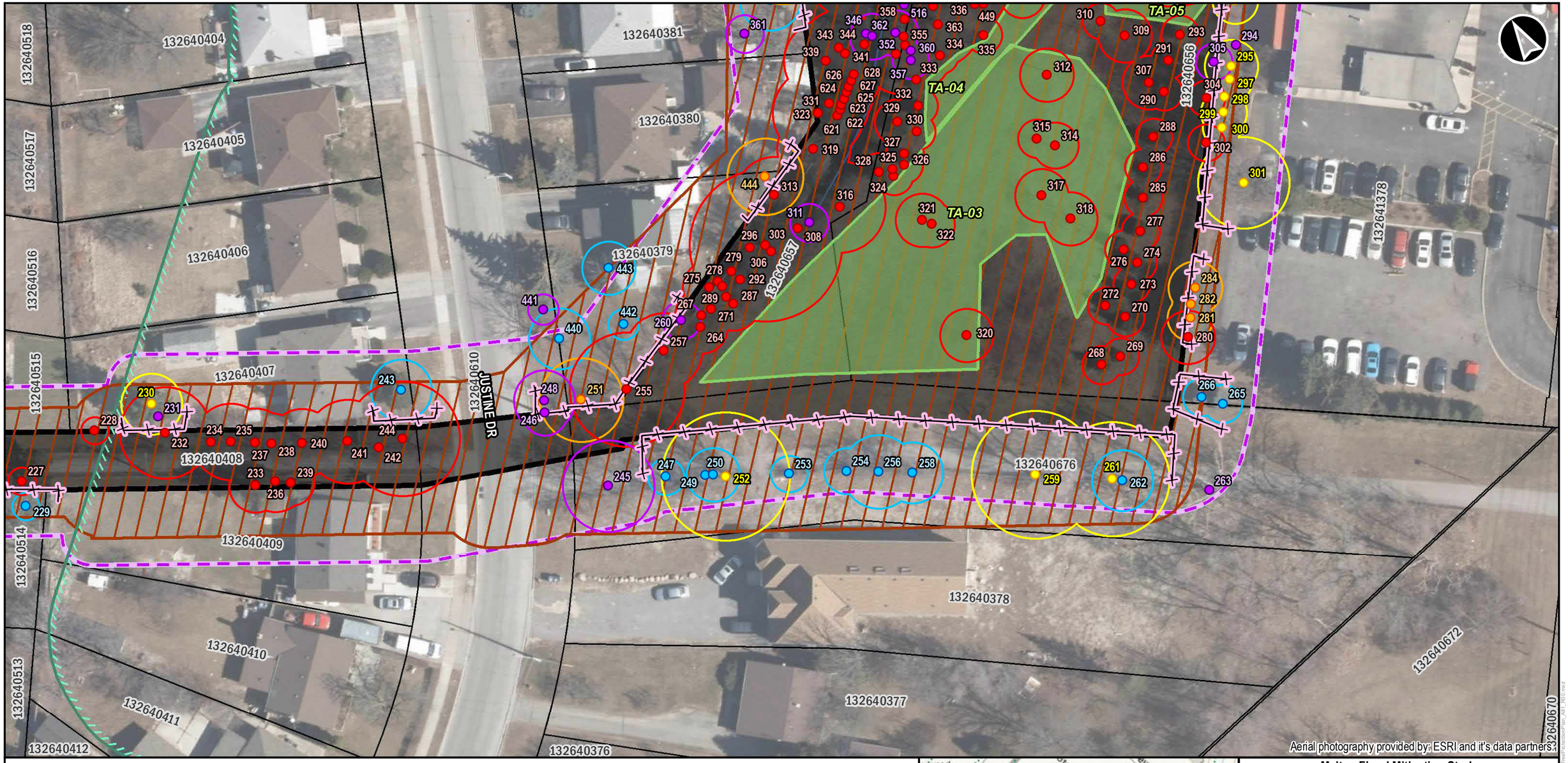


Legend

- Alternative 1 Study Area
- Alternative 1 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

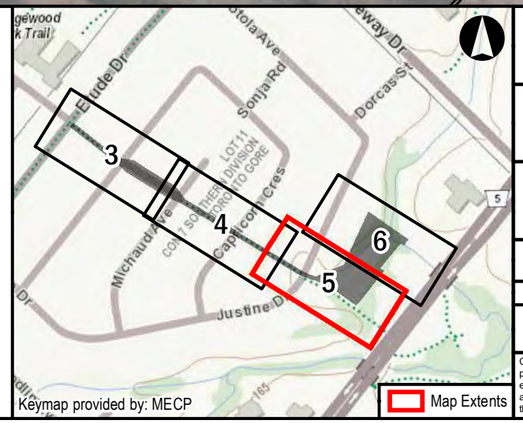
Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 1

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix B5

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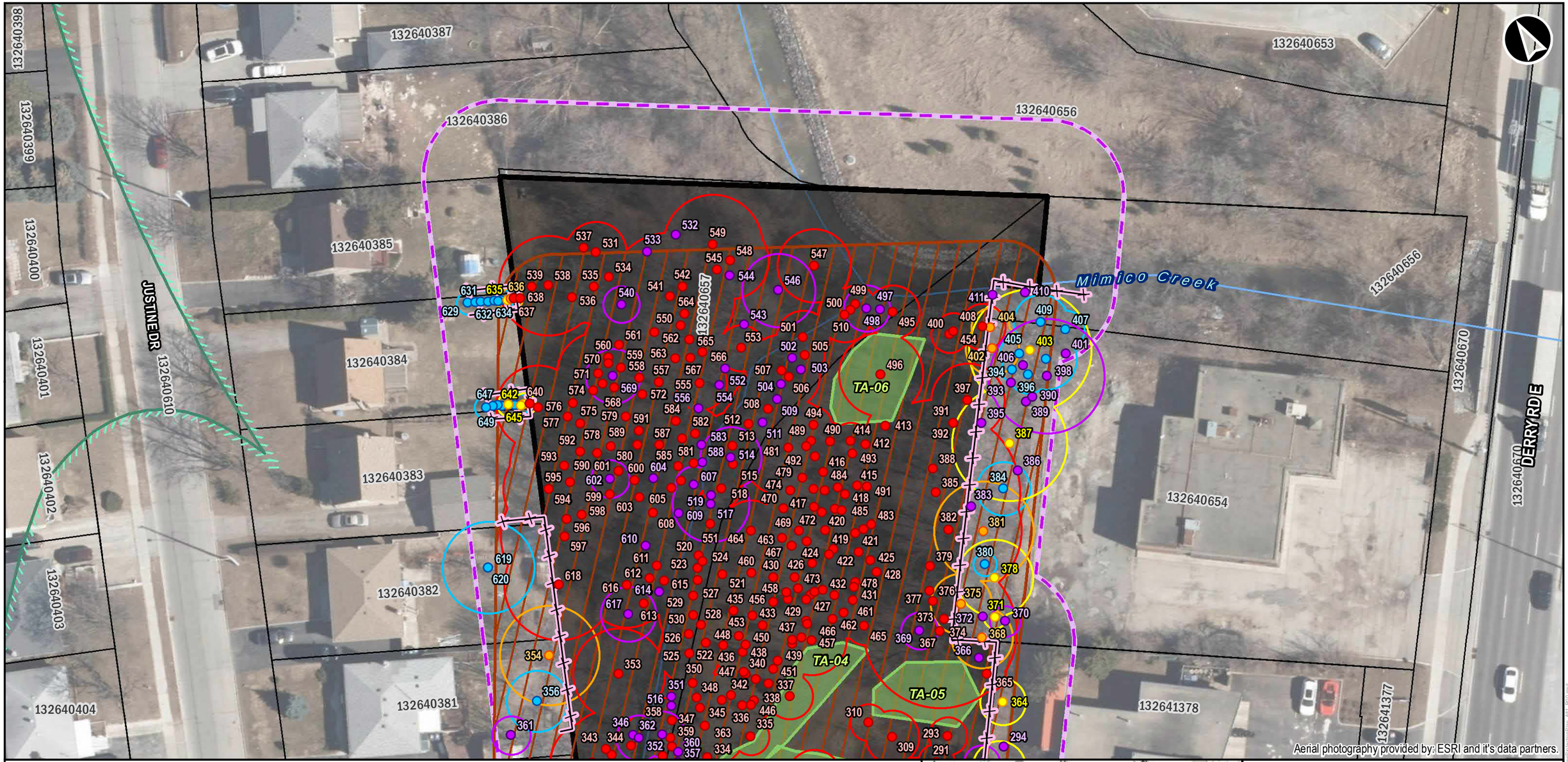


Legend

- Alternative 1 Study Area
- Alternative 1 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

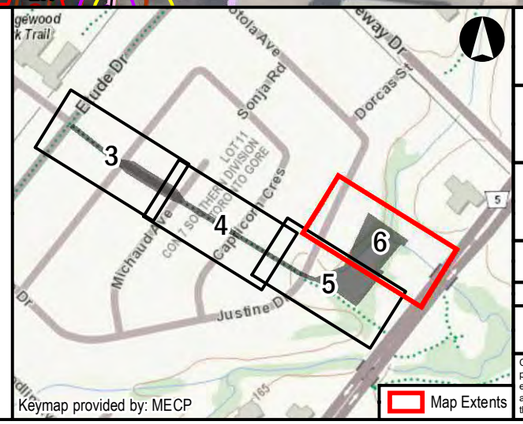
Recommended Action - Alternative 1

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 1

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix B6

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Date Saved: 1/15/2021 2:19:55 AM User Name: cnaws

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Appendix C1

Alternative 2 Tree Management Table

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
1	Honey-Locust	Gleditsia triacanthos	31					31	9	10	Good	ST, DW, FS, FC, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
2	Maple - Norway	Acer platanoides	13					13	4	0	Good	LT, DC, SF, RP	2.4	City of Mississauga (Park)	No	Yes
3	Maple - Norway	Acer platanoides	16					16	4	10	Good	LT, NST, ER, BSD, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
4	Maple - Norway	Acer platanoides	18					18	4	5	Good	ER, GR, PP, WC, DW, RP	2.4	City of Mississauga (Park)	No	Yes
5	Honey-Locust	Gleditsia triacanthos	17					17	5	5	Good	LT, ER, FS, RP	2.4	City of Mississauga (Park)	No	Yes
6	Maple - Silver	Acer saccharinum	25					25	9	0	Good	PTH, TW, WC, PF, FK@2M, RP	3.6	City of Mississauga (Park)	No	Yes
7	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	FK@2M, MB, FS, UW, RP	1.5	City of Mississauga (Road ROW)	No	No
8	Honey-Locust	Gleditsia triacanthos	15					15	7	5	Good	MB, PF, WNC, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
9	Maple - Silver	Acer saccharinum	62					62	11	15	Good	FK@2M, PP, WNC, MB, PB, ST, RP	8.4	City of Mississauga (Park)	No	Yes
10	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	MB, DW, FS, RP	2.4	City of Mississauga (Park)	No	Yes
11	Apple sp.	Malus sp.	25					25	6	20	Fair	LN (M), BSD, TW, WNC, ST, SC, 1SD, UC, PP, RP	3.6	City of Mississauga (Park)	No	Yes
12	Maple - Norway	Acer platanoides	10					10	2	15	Good	ER, DC, RP	2.4	City of Mississauga (Park)	No	Yes
13	Maple - Norway	Acer platanoides	10					10	3	20	Fair	BSD, MB, RP	2.4	City of Mississauga (Park)	No	Yes
14	Maple - Norway	Acer platanoides	14					14	4	10	Good	PTL, LN (L), TW, PF, WNC, ER, RP	2.4	City of Mississauga (Park)	No	Yes
15	Oak - Red	Quercus rubra	13					13	4	0	Good	ER, DC, SF, PF, RP	2.4	City of Mississauga (Park)	No	Yes
16	Serviceberry sp.	Amelanchier sp.	4	3	2	2	2	6	1	10	Fair	TK7, RP	2.4	City of Mississauga (Park)	No	Yes
17	Zelkova - Japanese	Zelkova serrata	4					4	1	10	Fair	FS, SL, ML, RP	2.4	City of Mississauga (Park)	No	Yes
18	Serviceberry sp.	Amelanchier sp.	2					2	1	20	Fair	PTL, RH	2.4	City of Mississauga (Park)	No	Yes
19	Oak - English	Quercus robur	12					12	4	0	Good	BSD, WNC, ER, PF, RH, RP, DC, SF	2.4	City of Mississauga (Park)	No	Yes
20	Maple - Norway	Acer platanoides	17					17	5	5	Good	ER, GR, NST, DC	2.4	City of Mississauga (Park)	No	Yes
21	Maple - Norway	Acer platanoides	15					15	4	10	Good	ER, GR, DW, RP	2.4	City of Mississauga (Park)	No	Yes
22	Honey-Locust	Gleditsia triacanthos	18					18	6	5	Good	PP, WC, FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
23	Honey-Locust	Gleditsia triacanthos	17					17	7	5	Good	ER, ETB, PP, WC, FS, DW, RP	1.5	Peel District School Board	No	No
24	Honey-Locust	Gleditsia triacanthos	17					17	6	10	Good	ETB, SB, MB, FS, DW, RP	1.5	Peel District School Board	No	No
25	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	ER, MB, TW, WNC, PP, FS, RP	1.5	Peel District School Board	No	No
26	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, SF, RP	2.4	City of Mississauga (Park)	No	Yes
27	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
28	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
29	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
30	Yellow-Wood	Cladrastis kentukea	5					5	1	0	Fair	LT, PTL, PP, SL	2.4	City of Mississauga (Park)	No	Yes
31	Yellow-Wood	Cladrastis kentukea	6					6	1	10	Fair	LT, SB, RH, MB, FS, TW, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
32	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, VC, DC, SF	1.5	Peel District School Board	No	No
33	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
34	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, NST, DC, SF	1.5	Peel District School Board	No	No
35	Honey-Locust	Gleditsia triacanthos	18					18	7	10	Good	FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
36	Yellow-Wood	Cladrastis kentukea	3	2	2	1		4	1	0	Fair	PTL, ML, FS, RP	2.4	City of Mississauga (Park)	No	Yes
37	Yellow-Wood	Cladrastis kentukea	4	3	2	2		6	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga (Park)	No	Yes
38	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
39	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
40	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
41	Yellow-Wood	Cladrastis kentukea	3					3	2	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes
42	Yellow-Wood	Cladrastis kentukea	6					6	1	5	Fair	ML, FS,,RP	2.4	City of Mississauga (Park)	No	Yes
43	Honey-Locust	Gleditsia triacanthos	11					11	5	10	Good	LT, MB, DC	1.5	Peel District School Board	No	No
44	Spruce - Colorado	Picea pungens	12					12	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
45	Spruce - Colorado	Picea pungens	10					10	2	30	Fair	VC, LT, SL, CD	1.5	Peel District School Board	No	No
46	Honey-Locust	Gleditsia triacanthos	19					19	7	5	Good	ER, ST, DW, FS, RP	1.5	Peel District School Board	No	No
47	Maple - Norway	Acer platanoides	5					5	2	10	Fair	1SD, LS, GTF	1.2	Peel District School Board	No	No
48	Elm - Siberian	Ulmus pumila	20	7				21	7	15	Good	TK2, GTF, FS, DW, SF, RP	1.8	Peel District School Board	No	No
49	Maple - Manitoba	Acer negundo	12	9	6			16	5	25	Fair	TK3, GTF, LN (L), FS, CT, 1SD, UC, PP, RP	1.5	Peel District School Board	No	No
50	Maple - Manitoba	Acer negundo	17	10	10			22	9	15	Good	TK3, GTF, RH, CT, RP	1.8	Peel District School Board	No	No
51	Sweetgum	Liquidambar styraciflua	6					6	1	40	Poor	SL, PP, RH, SB	2.4	City of Mississauga (Park)	No	Yes
52	Sweetgum	Liquidambar styraciflua	5					5	1	30	Fair	RH, SL	2.4	City of Mississauga (Park)	No	Yes
53	Sweetgum	Liquidambar styraciflua	4					4	1	25	Fair	LT, SL, RH	2.4	City of Mississauga (Park)	No	Yes
54	Yellow-Wood	Cladrastis kentukea	4					4	1	5	Fair	LT, CT, MB, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
55	Sweetgum	Liquidambar styraciflua	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
56	Spruce - Colorado	Picea pungens	11					11	3	5	Good	LT, DC, ML, RP	2.4	City of Mississauga (Park)	No	Yes
57	Sweetgum	Liquidambar styraciflua	4					4	0	100	Dead	SB, DW, RM	0	City of Mississauga (Park)	No	Yes
58	Spruce - Colorado	Picea pungens	9					9	2	5	Good	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
59	Spruce - Colorado	Picea pungens	8					8	2	15	Fair	PTL, GC, SF, RF	2.4	City of Mississauga (Park)	No	Yes
60	Sweetgum	Liquidambar styraciflua	5					5	1	15	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
61	Sweetgum	Liquidambar styraciflua	5					5	1	35	Fair	LT, PTL, 1SD, RP	2.4	City of Mississauga (Park)	No	Yes
62	Spruce - Colorado	Picea pungens	8					8	2	25	Fair	GC, 1SD, PL, SL, DW	2.4	City of Mississauga (Park)	No	Yes
63	Maple - Manitoba	Acer negundo	27					27	10	20	Fair	GTF, DE, PP, 1SD, UC, RP	3.6	City of Mississauga (Park)	No	Yes
64	Apple sp.	Malus sp.	13					13	5	20	Fair	LN (M), SB, ST, SC, 1SD, UC	2.4	City of Mississauga (Park)	No	Yes
65	Honey-Locust	Gleditsia triacanthos	51					51	13	15	Good	LT, BSD, WNC, FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
66	Oak - Red	Quercus rubra	8					8	3	10	Fair	TW, WNC, DC	2.4	City of Mississauga (Park)	No	Yes
67	Oak - Red	Quercus rubra	7					7	3	10	Fair	ML, LT, RP	2.4	City of Mississauga (Park)	No	Yes
68	Spruce - Colorado	Picea pungens	9					9	3	0	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
69	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
1	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 2 Impact Area	3	NA	2354.52	Yes
2	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	NA	695.75	Yes
3	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	NA	884.40	Yes
4	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	NA	1031.85	Yes
5	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 2 Impact Area	2	NA	940.20	Yes
6	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	2	NA	1463.90	Yes
7	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 2 Impact Area	2	NA	1173.81	Yes
8	Honey-Locust	Gleditsia triacanthos	Protect	Alternative 2 Study Area	NA	NA	805.50	No
9	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	5	NA	7622.86	Yes
10	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 2 Impact Area	1	NA	805.50	Yes
11	Apple sp.	Malus sp.	Protect	Outside Alternative 2 Study Area	NA	NA	1055.75	No
12	Maple - Norway	Acer platanoides	Protect	Outside Alternative 2 Study Area	NA	NA	546.13	No
13	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	423.25	No
14	Maple - Norway	Acer platanoides	Protect	Outside Alternative 2 Study Area	NA	NA	754.29	No
15	Oak - Red	Quercus rubra	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	843.92	No
16	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	226.61	No
17	Zelkova - Japanese	Zelkova serrata	Remove	Alternative 2 Impact Area	NA	NA	278.53	Yes
18	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	170.47	No
19	Oak - English	Quercus robur	Protect	Alternative 2 Study Area	NA	NA	762.24	No
20	Maple - Norway	Acer platanoides	Protect	Outside Alternative 2 Study Area	NA	NA	955.96	No
21	Maple - Norway	Acer platanoides	Protect	Outside Alternative 2 Study Area	NA	NA	817.18	No
22	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	1013.86	No
23	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	940.20	No
24	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	940.20	No
25	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	1173.81	No
26	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Impact Area	NA	NA	247.92	Yes
27	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Impact Area	NA	NA	247.92	Yes
28	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Study Area	NA	NA	247.92	Yes
29	Gingko	Gingko biloba	Remove	Alternative 2 Impact Area	NA	NA	264.68	Yes
30	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 2 Study Area	NA	NA	241.00	No
31	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 2 Study Area	NA	NA	259.21	No
32	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
33	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
34	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
35	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	1013.86	No
36	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 2 Study Area	NA	NA	226.09	No
37	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 2 Study Area	NA	NA	259.21	No
38	Gingko	Gingko biloba	Remove	Alternative 2 Impact Area	NA	NA	264.68	Yes
39	Gingko	Gingko biloba	Remove	Alternative 2 Impact Area	NA	NA	264.68	Yes
40	Gingko	Gingko biloba	Remove	Alternative 2 Impact Area	NA	NA	264.68	Yes
41	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 2 Study Area	NA	NA	214.50	No
42	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 2 Study Area	NA	NA	259.21	No
43	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	586.62	No
44	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
45	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
46	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 2 Study Area	NA	NA	1091.73	No
47	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	297.21	No
48	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 2 Study Area	NA	NA	716.62	No
49	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 2 Study Area	NA	NA	312.27	No
50	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 2 Study Area	NA	NA	679.22	No
51	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 2 Study Area	NA	NA	162.16	No
52	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 2 Study Area	NA	NA	270.95	No
53	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 2 Study Area	NA	NA	257.60	No
54	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 2 Study Area	NA	NA	226.09	No
55	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 2 Study Area	NA	NA	270.95	No
56	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
57	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 2 Study Area	NA	NA	41.55	No
58	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
59	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
60	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 2 Study Area	NA	NA	270.95	No
61	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 2 Study Area	NA	NA	270.95	No
62	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	0.00	No
63	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 2 Study Area	NA	NA	756.48	No
64	Apple sp.	Malus sp.	Retain	Outside Alternative 2 Study Area	NA	NA	413.39	No
65	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 2 Study Area	NA	NA	5806.14	No
66	Oak - Red	Quercus rubra	Protect	Outside Alternative 2 Study Area	NA	NA	443.85	No
67	Oak - Red	Quercus rubra	Retain	Outside Alternative 2 Study Area	NA	NA	413.82	No
68	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	442.87	No
69	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	327.80	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
70	Kentucky Coffeetree	Gymnocladus dioicus	4	3				5	1	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes
71	Oak - Red	Quercus rubra	3					3	1	20	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
72	Oak - Red	Quercus rubra	4					4	1	5	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
73	Oak - Red	Quercus rubra	3					3	1	25	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
74	Spruce - Colorado	Picea pungens	5					5	2	45	Poor	LT, CD, DW, RM	2.4	City of Mississauga (Park)	No	Yes
75	Maple - Freeman	Acer x freemanii	3	3	2			5	3	25	Poor	TK3, PP, GTF, RM	2.4	City of Mississauga (Park)	No	Yes
76	Spruce - Colorado	Picea pungens	5					5	2	15	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
77	Maple - Freeman	Acer x freemanii	43					43	12	10	Good	PP, TW, WNC, FK@5M, DW, SB, RP	6	City of Mississauga (Park)	No	Yes
78	Spruce - White	Picea glauca	5					5	3	25	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
79	Spruce - White	Picea glauca	9					9	4	15	Fair	LT, ML, PL, RP	2.4	City of Mississauga (Park)	No	Yes
80	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
81	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	FK@2M, RP, LT	2.4	City of Mississauga (Park)	No	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, ML	2.4	City of Mississauga (Park)	No	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	5	2				5	2	10	Fair	TK2, LT, RP	2.4	City of Mississauga (Park)	No	Yes
84	Honey-Locust	Gleditsia triacanthos	44					44	13	10	Good	FK@2M, CT, DW, FS, RP	6	City of Mississauga (Park)	No	Yes
85	Cherry - Sweet	Prunus avium	24	23	14	11		38	6	25	Fair	TK4, PP, WNC, FS, SC, RP	2.4	Private	No	No
86	Apple sp.	Malus sp.	12					12	4	10	Good	PP, LN (L), CT, SC, DC, RP	1.5	Private	No	No
87	Oak - Swamp White	Quercus bicolor	5					5	1	10	Fair	LT, SL, SG	2.4	City of Mississauga (Park)	No	Yes
88	Oak - Swamp White	Quercus bicolor	6					6	1	15	Fair	LT, SB, SF	2.4	City of Mississauga (Park)	No	Yes
89	Spruce - Colorado	Picea pungens	28					28	5	10	Good	LT, PP, DC, SF	1.8	Private	No	No
90	Horsechestnut - European	Aesculus hippocastanum	32					32	9	5	Good	LT, MB, DC, SF	2.4	Private	No	No
91	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
92	Oak - Swamp White	Quercus bicolor	4					4	1	10	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
93	Spruce - Colorado	Picea pungens	12					12	3	15	Good	LT, 1SD, NST	2.4	City of Mississauga (Park)	No	Yes
94	Maple - Norway	Acer platanoides	7					7	1	0	Fair	GTF, BR2, DW, SL	2.4	City of Mississauga (Park)	No	Yes
95	Maple - Manitoba	Acer negundo	12	12	11	9		22	6	10	Good	TK4, FS, GTF, FS, RP	3.6	City of Mississauga (Park)	No	Yes
96	Maple - Norway	Acer platanoides	7	5				9	1	15	Fair	TK2, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
97	Spruce - Colorado	Picea pungens	11					11	3	10	Good	LT, ER, SL, SF	2.4	City of Mississauga (Park)	No	Yes
98	Mulberry - White	Morus alba	19	15	14	13	8	32	7	15	Fair	TK5, GTF, PP, WNC, TW, FS, RP	4.8	City of Mississauga (Park)	No	Yes
99	Spruce - Colorado	Picea pungens	10					10	2	0	Good	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
100	Apple sp.	Malus sp.	27	24	19	17		44	9	25	Fair	TK4, PP, ST, SC, FS, SN, RH, RP	6	City of Mississauga (Park)	No	Yes
101	Apple sp.	Malus sp.	4	3	3	3		7	2	10	Fair	TK4, FS, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
102	Sweetgum	Liquidambar styraciflua	4					4	1	30	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
103	Sweetgum	Liquidambar styraciflua	6					6	1	15	Fair	LT, SL, PP	2.4	City of Mississauga (Park)	No	Yes
104	Kentucky Coffeetree	Gymnocladus dioicus	5					5	2	10	Good	LT, ML	2.4	City of Mississauga (Park)	No	Yes
105	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
106	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	DC, SF, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
107	Honey-Locust	Gleditsia triacanthos	59					59	13	10	Good	FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
108	Spruce - Colorado	Picea pungens	9					9	3	5	Good	LT, ER, SF	2.4	City of Mississauga (Park)	No	Yes
109	Spruce - White	Picea glauca	9					9	3	0	Good	ER, LT, SF	2.4	City of Mississauga (Park)	No	Yes
110	Mulberry - White	Morus alba	7	4				8	3	25	Fair	TK2, GTF, LN (L), ML, RP	2.4	City of Mississauga (Park)	No	Yes
111	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, SF	2.4	City of Mississauga (Park)	No	Yes
112	Oak - Red	Quercus rubra	7					7	2	15	Fair	LT, ER, FK@3M, ML, RP	2.4	City of Mississauga (Park)	No	Yes
113	Oak - Red	Quercus rubra	6					6	2	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
114	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	PP, TK4, RP	2.4	City of Mississauga (Park)	No	Yes
115	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	15	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
116	Oak - Red	Quercus rubra	8					8	2	0	Fair	ER, LT, PL, DC, 1SD	2.4	City of Mississauga (Park)	No	Yes
117	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
118	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	15	Fair	TK3, SB, RP	2.4	City of Mississauga (Park)	No	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	3	3	3	3		6	1	5	Fair	LT, TW, WNC, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	10	Fair	BSD, LN (L), WNC, LT, SF	2.4	City of Mississauga (Park)	No	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
122	Linden - Little-Leaf	Tilia cordata	3					3	1	15	Fair	LT, BR1, ML, RP	2.4	City of Mississauga (Park)	No	Yes
123	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
124	Linden - Little-Leaf	Tilia cordata	4					4	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
125	Pine - Austrian	Pinus nigra	37					37	7	15	Good	TW, WNC, CT, AD (sapsucker), LN (L), FS, RP	4.8	City of Mississauga (Park)	No	Yes
126	Sweetgum	Liquidambar styraciflua	4					4	4	5	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
127	Cherry - Sweet	Prunus avium	5	4				6	2	10	Fair	TK2, 1SD, FS, RP	2.4	City of Mississauga (Park)	No	Yes
128	Spruce - Colorado	Picea pungens	7					7	2	10	Fair	LT, FS, SF, RP	2.4	City of Mississauga (Park)	No	Yes
129	Spruce - Colorado	Picea pungens	6					6	2	0	Fair	LT, PL, RP	2.4	City of Mississauga (Park)	No	Yes
130	Pear sp.	Pyrus sp.	12	10				16	5	25	Fair	TK2, 1SD, UC, DW, LN (L), RP	2.4	City of Mississauga (Park)	No	Yes
131	Maple - Manitoba	Acer negundo	10	5	5	4	4	13	5	30	Fair	TK5, ST, SC, FS, PP, RP	2.4	City of Mississauga (Park)	No	Yes
132	Linden - Little-Leaf	Tilia cordata	4	4				6	1	20	Fair	TK2, GTF, LN (L), PP, SC, 1SD, LS	2.4	City of Mississauga (Park)	No	Yes
133	Spruce - White	Picea glauca	7					7	3	25	Fair	LT, CD, CN, SF	2.4	City of Mississauga (Park)	No	Yes
134	Spruce - White	Picea glauca	9					9	2	20	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
135	Spruce - White	Picea glauca	6					6	2	30	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
136	Cottonwood - Eastern	Populus deltoides	24	18				30	7	20	Fair	TK2, DW, CD, PB, RP	3.6	City of Mississauga (Park)	No	Yes
137	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
138	Catalpa - Northern	Catalpa speciosa	4					4	1	10	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
70	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	327.80	Yes
71	Oak - Red	Quercus rubra	Protect	Alternative 2 Study Area	NA	NA	333.75	No
72	Oak - Red	Quercus rubra	Retain	Outside Alternative 2 Study Area	NA	NA	347.76	No
73	Oak - Red	Quercus rubra	Retain	Outside Alternative 2 Study Area	NA	NA	333.75	No
74	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 2 Study Area	NA	NA	190.63	No
75	Maple - Freeman	Acer x freemanii	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 2 Study Area	NA	NA	158.60	No
76	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	337.69	No
77	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 2 Study Area	NA	NA	4143.23	No
78	Spruce - White	Picea glauca	Protect	Outside Alternative 2 Study Area	NA	NA	320.55	No
79	Spruce - White	Picea glauca	Retain	Outside Alternative 2 Study Area	NA	NA	424.35	No
80	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 2 Study Area	NA	NA	617.49	No
81	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	327.80	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	327.80	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	327.80	Yes
84	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 2 Study Area	NA	NA	4406.55	No
85	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 2 Study Area	NA	NA	2267.01	No
86	Apple sp.	Malus sp.	Retain	Outside Alternative 2 Study Area	NA	NA	487.96	No
87	Oak - Swamp White	Quercus bicolor	Protect	Outside Alternative 2 Study Area	NA	NA	327.80	No
88	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 2 Study Area	NA	NA	348.19	No
89	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	2275.19	No
90	Horsechestnut - European	Aesculus hippocastanum	Retain	Outside Alternative 2 Study Area	NA	NA	2395.77	No
91	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	327.80	Yes
92	Oak - Swamp White	Quercus bicolor	Protect	Alternative 2 Study Area	NA	NA	311.12	No
93	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 2 Study Area	NA	NA	724.13	No
94	Maple - Norway	Acer platanoides	Retain	Outside Alternative 2 Study Area	NA	NA	337.54	No
95	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 2 Study Area	NA	NA	679.22	No
96	Maple - Norway	Acer platanoides	Retain	Outside Alternative 2 Study Area	NA	NA	391.32	No
97	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 2 Study Area	NA	NA	668.38	No
98	Mulberry - White	Morus alba	Retain	Outside Alternative 2 Study Area	NA	NA	1818.03	No
99	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 2 Study Area	NA	NA	617.49	No
100	Apple sp.	Malus sp.	Retain	Outside Alternative 2 Study Area	NA	NA	2902.52	No
101	Apple sp.	Malus sp.	Retain	Outside Alternative 2 Study Area	NA	NA	244.35	No
102	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 2 Study Area	NA	NA	257.60	No
103	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 2 Study Area	NA	NA	287.26	No
104	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 2 Impact Area	NA	NA	422.97	Yes
105	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Impact Area	NA	NA	247.92	Yes
106	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 2 Impact Area	1	NA	805.50	Yes
107	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 2 Impact Area	4	NA	7658.23	Yes
108	Spruce - Colorado	Picea pungens	Remove	Alternative 2 Study Area	1	NA	571.44	Yes
109	Spruce - White	Picea glauca	Remove	Alternative 2 Study Area	1	NA	547.54	Yes
110	Mulberry - White	Morus alba	Protect	Alternative 2 Study Area	NA	NA	299.63	No
111	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 2 Study Area	NA	NA	617.49	No
112	Oak - Red	Quercus rubra	Remove	Alternative 2 Impact Area	1	NA	413.82	Yes
113	Oak - Red	Quercus rubra	Remove	Alternative 2 Impact Area	1	NA	387.80	Yes
114	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
115	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
116	Oak - Red	Quercus rubra	Remove	Alternative 2 Impact Area	1	NA	443.85	Yes
117	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
118	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 2 Impact Area	1	NA	305.64	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 2 Impact Area	1	NA	305.64	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Protect	Alternative 2 Study Area	NA	NA	305.64	No
122	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Impact Area	NA	NA	247.92	Yes
123	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Impact Area	NA	NA	247.92	Yes
124	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 2 Impact Area	NA	NA	260.38	Yes
125	Pine - Austrian	Pinus nigra	Protect	Outside Alternative 2 Study Area	NA	NA	3041.61	No
126	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 2 Study Area	NA	NA	257.60	No
127	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 2 Study Area	NA	NA	213.99	No
128	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	382.76	No
129	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 2 Study Area	NA	NA	358.35	No
130	Pear sp.	Pyrus sp.	Retain	Outside Alternative 2 Study Area	NA	NA	414.41	No
131	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 2 Study Area	NA	NA	230.57	No
132	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 2 Study Area	NA	NA	295.96	No
133	Spruce - White	Picea glauca	Retain	Outside Alternative 2 Study Area	NA	NA	365.03	No
134	Spruce - White	Picea glauca	Retain	Outside Alternative 2 Study Area	NA	NA	424.35	No
135	Spruce - White	Picea glauca	Protect	Outside Alternative 2 Study Area	NA	NA	340.94	No
136	Cottonwood - Eastern	Populus deltoides	Protect	Outside Alternative 2 Study Area	NA	NA	1657.43	No
137	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 2 Study Area	NA	NA	240.06	No
138	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 2 Study Area	NA	NA	226.50	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
139	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
140	Oak - English	Quercus robur	55					55	6	10	Good	DC, SL	3.6	City of Mississauga (Road ROW)	No	No
141	Maple - Norway	Acer platanoides	47					47	11	20	Fair	ER, GR, MB, PP, WNC, UW, SC	3	City of Mississauga (Road ROW)	No	No
142	Spruce - White	Picea glauca	30					30	6	35	Fair	LT, CD, CN, PP, UW, RP	1.8	Private	No	No
143	Maple - Silver	Acer saccharinum	61					61	13	15	Good	GC, FK@2M, FK@4M, BR3, PF, 1SD, SC, RP	4.2	City of Mississauga (Road ROW)	No	No
144	Maple - Norway	Acer platanoides	62					62	16	15	Good	FK@2M, UW, PP, WC, 1SD	4.2	Private	No	No
145	Honey-Locust	Gleditsia triacanthos	6					6	1	15	Fair	LT, SL	1.2	City of Mississauga (Road ROW)	No	No
146	Pine - Scots	Pinus sylvestris	26					26	5	25	Fair	LT, PTL, DW, AD (sapsucker), RP	1.8	City of Mississauga (Road ROW)	No	No
147	Maple - Norway	Acer platanoides	32					32	12	35	Fair	BSD, TW, DE, PB, CD, MB, RP	2.4	City of Mississauga (Road ROW)	No	No
148	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, SF	1.5	Private	No	No
149	Apple sp.	Malus sp.	27					27	5	35	Fair	CT, TW, DE, CD, PP, RP	1.8	Private	No	No
150	Mulberry - White	Morus alba	5	5	3			8	3	0	Fair	TK3, PP, SC	1.2	City of Mississauga (Road ROW)	No	No
151	Spruce - White	Picea glauca	35					35	8	20	Fair	LT, 1SD, UW, PL	2.4	Private	No	No
152	Honey-Locust	Gleditsia triacanthos	48					48	8	20	Fair	GC, RH, SC, PP, UW, DW, RP	3	Private	No	No
153	Serviceberry sp.	Amelanchier sp.	1	1	1	1	1	2	1	15	Fair	TK6, SB, RP	2.4	City of Mississauga (Park)	No	Yes
154	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, FS, RP	2.4	City of Mississauga (Park)	No	Yes
155	Birch - White	Betula papyrifera	25					25	0	100	Dead	DW, RM	0	Private	No	No
156	Pine - Austrian	Pinus nigra	45					45	10	15	Good	PP, FK@2M, FS, RP	3	City of Mississauga (Road ROW)	No	No
157	Juniper - Eastern	Juniperus virginiana	10	7	5			13	3	25	Fair	LS, TK3, DW, 1SD, UC	1.5	City of Mississauga (Road ROW)	No	No
158	Douglas-Fir	Pseudotsuga menziesii	30					30	6	10	Good	DC, SF	1.8	City of Mississauga (Road ROW)	No	No
159	Juniper - Eastern	Juniperus virginiana	12	8	8	5		17	4	45	Poor	TK4, SN, LS, 1SD	1.5	City of Mississauga (Road ROW)	No	No
160	Douglas-Fir	Pseudotsuga menziesii	19					19	4	25	Fair	1SD, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
161	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
162	Maple - Manitoba	Acer negundo	6					6	1	25	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
163	Maple - Manitoba	Acer negundo	2					2	1	10	Fair	SP, GTF	1.2	City of Mississauga (Road ROW)	No	No
164	Maple - Freeman	Acer x freemanii	4	3				5	1	15	Fair	TK2, SP, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
165	Ash - White	Fraxinus americana	4					4	1	10	Fair	SL, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
166	Maple - Manitoba	Acer negundo	7	6	5			10	2	10	Fair	TK3, GTF, SL, ML, RP	1.5	City of Mississauga (Road ROW)	No	No
167	Maple - Manitoba	Acer negundo	10	7				12	4	15	Fair	TK2, MB, ML, FS, ST, RP	1.5	City of Mississauga (Road ROW)	No	No
168	Ash - White	Fraxinus americana	11	10				15	6	15	Fair	TK2, EAB, PP, SC, RP	1.5	City of Mississauga (Road ROW)	No	No
169	Cedar - Eastern-White	Thuja occidentalis	15					15	4	0	Good	DC, SF	1.5	Private	No	No
170	Maple - Manitoba	Acer negundo	10	4				11	4	15	Fair	TK2, GTF, PP, ST, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
171	Maple - Silver	Acer saccharinum	53					53	14	15	Good	FK@3M, BR2, SN, MB, FS, RP	3.6	Private	No	No
172	Juniper - Eastern	Juniperus virginiana	31					31	7	25	Fair	PTL, GC, PL, RP	2.4	Private	No	No
173	Juniper - Eastern	Juniperus virginiana	33					33	6	25	Fair	PL, SL, CS, RP	2.4	Private	No	No
174	Mountain-Ash - European	Sorbus aucuparia	12	11				16	4	5	Good	TK2, LS, CT	1.5	Private	No	No
175	Spruce - Colorado	Picea pungens	41					41	5	20	Good	SF, SL, LT	3	City of Mississauga (Road ROW)	No	No
176	Maple - Norway	Acer platanoides	58					58	17	15	Good	MB, RH, DW, FS, UW, SN, RP	3.6	City of Mississauga (Road ROW)	No	No
177	Maple - Silver	Acer saccharinum	61					61	13	15	Good	FK@4M, SN, PF, NST, UW, RP	4.2	City of Mississauga (Road ROW)	No	No
178	Apple sp.	Malus sp.	45					45	9	15	Good	MB, TT, SC, PP, DW, FS, SB, RP	3	City of Mississauga (Road ROW)	No	No
179	Apple sp.	Malus sp.	14					14	0	100	Dead	PB, LN (M), DW, RM	0	Private	No	No
180	Cherry - Sweet	Prunus avium	36					36	9	15	Good	MB, FC, WC, DW, RP	2.4	Private	No	No
181	Mulberry - White	Morus alba	25	24	19	17		43	9	15	Good	TK4, ER, PP, DW, FS, RP	3	City of Mississauga (Road ROW)	No	No
182	Apple sp.	Malus sp.	20	19				28	0	100	Dead	TK2, DW, DE, PF, RM	0	City of Mississauga (Road ROW)	No	No
183	Cherry - Sweet	Prunus avium	57					57	9	30	Fair	MB, PP, PF, ST, FS, RP	3.6	Private	No	No
184	Spruce - Colorado	Picea pungens	55					55	7	10	Good	SF, LT	3.6	Private	No	No
185	Spruce - Colorado	Picea pungens	28					28	5	15	Good	LT, PL, DW, RP	1.8	Private	No	No
186	Spruce - Colorado	Picea pungens	29					29	5	10	Good	LT, DC, SF	1.8	Private	No	No
187	Spruce - Colorado	Picea pungens	41					41	6	10	Good	LT, SF, DC	3	Private	No	No
188	Apple sp.	Malus sp.	17	14	12			25	8	5	Good	TK3, PTL, PP, PC	1.8	City of Mississauga (Road ROW)	No	No
189	Apple sp.	Malus sp.	9					9	4	15	Fair	SC, PC	1.2	City of Mississauga (Road ROW)	No	No
190	Apple sp.	Malus sp.	16	14				21	8	15	Good	TK2, FS, SC, PP, PC, RP	1.8	City of Mississauga (Road ROW)	No	No
191	Cherry - Sweet	Prunus avium	23	21				31	7	15	Good	TK2, PB, PP, SC, PC, IB	2.4	Private	No	No
192	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	10	Fair	TK3, FS, RP	1.2	City of Mississauga (Road ROW)	No	No
193	Cedar - Eastern-White	Thuja occidentalis	3	3	2	2		5	1	0	Fair	TK4, PP, VC	1.2	City of Mississauga (Road ROW)	No	No
194	Mountain-Ash - European	Sorbus aucuparia	7					7	2	5	Fair	DC, SF	1.2	Private	No	No
195	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, PP	1.5	Private	No	No
196	Serviceberry sp.	Amelanchier sp.	1					1	1	25	Fair	SP	1.2	City of Mississauga (Road ROW)	No	No
197	Maple - Manitoba	Acer negundo	23	9	5			25	5	10	Good	TK3, GTF, FK@3M, ETB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
198	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP	1.2	City of Mississauga (Road ROW)	No	No
199	Maple - Norway	Acer platanoides	4	2				4	1	15	Fair	TK2, LS, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
200	Maple - Norway	Acer platanoides	7					7	2	10	Fair	FS, GTF, TD, FK2@2M, SF,	1.2	City of Mississauga (Road ROW)	No	No
201	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP, TK2	1.2	City of Mississauga (Road ROW)	No	No
202	Maple - Manitoba	Acer negundo	18	17	14			28	8	10	Fair	TK3, GTF, ETB, SB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
203	Maple - Norway	Acer platanoides	2	1				2	1	25	Fair	TK2, PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
204	Maple - Norway	Acer platanoides	8					8	1	30	Fair	PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
205	Maple - Manitoba	Acer negundo	14	14	9			22	7	10	Good	TK3, GTF, RH, ST, PP, TD, WNC	1.8	City of Mississauga (Road ROW)	No	No
206	Cherry - Sweet	Prunus avium	6					6	1	15	Fair	PP, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
207	Maple - Manitoba	Acer negundo	4					4	1	20	Fair	GTF, PP, LS, RP	1.2	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
139	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 2 Study Area	NA	NA	240.06	No
140	Oak - English	Quercus robur	Retain	Outside Alternative 2 Study Area	NA	NA	8111.92	No
141	Maple - Norway	Acer platanoides	Retain	Outside Alternative 2 Study Area	NA	NA	3967.48	No
142	Spruce - White	Picea glauca	Retain	Outside Alternative 2 Study Area	NA	NA	1942.38	No
143	Maple - Silver	Acer saccharinum	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	7387.53	No
144	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	8664.70	No
145	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	315.98	No
146	Pine - Scots	Pinus sylvestris	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1043.33	No
147	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1976.06	No
148	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	850.15	No
149	Apple sp.	Malus sp.	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1202.25	No
150	Mulberry - White	Morus alba	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	299.63	No
151	Spruce - White	Picea glauca	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	2544.78	No
152	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4015.32	No
153	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
154	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
155	Birch - White	Betula papyrifera	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	175.97	No
156	Pine - Austrian	Pinus nigra	Remove	Alternative 2 Impact Area	3	NA	4359.50	Yes
157	Juniper - Eastern	Juniperus virginiana	Remove	Alternative 2 Impact Area	1	NA	407.67	Yes
158	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 2 Impact Area	2	NA	2321.74	Yes
159	Juniper - Eastern	Juniperus virginiana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	2	NA	333.94	Yes
160	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 2 Impact Area	2	NA	866.90	Yes
161	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	NA	117.88	Yes
162	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	NA	105.67	Yes
163	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	NA	75.61	Yes
164	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	NA	NA	280.95	Yes
165	Ash - White	Fraxinus americana	Remove	Alternative 2 Impact Area	NA	NA	187.26	Yes
166	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	NA	165.77	Yes
167	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	NA	207.09	Yes
168	Ash - White	Fraxinus americana	Remove	Alternative 2 Impact Area	1	NA	559.15	Yes
169	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	703.51	No
170	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	NA	185.49	Yes
171	Maple - Silver	Acer saccharinum	Protect - Injury	Alternative 2 Study Area	NA	NA	5642.58	No
172	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 2 Study Area	NA	NA	1621.21	No
173	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 2 Study Area	NA	NA	1817.34	No
174	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 2 Study Area	NA	NA	735.43	No
175	Spruce - Colorado	Picea pungens	Remove	Alternative 2 Study Area	3	NA	4449.09	Yes
176	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 2 Study Area	NA	NA	7623.86	No
177	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	5	NA	7387.53	Yes
178	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	3	NA	3906.96	Yes
179	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	72.81	No
180	Cherry - Sweet	Prunus avium	Protect	Alternative 2 Study Area	NA	NA	2646.72	No
181	Mulberry - White	Morus alba	Protect - Injury	Alternative 2 Study Area	NA	NA	4029.57	No
182	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	206.41	Yes
183	Cherry - Sweet	Prunus avium	Protect	Outside Alternative 2 Study Area	NA	NA	4898.89	No
184	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	7706.32	No
185	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	2275.19	No
186	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 2 Study Area	NA	NA	2413.33	No
187	Spruce - Colorado	Picea pungens	Protect	Alternative 2 Study Area	NA	NA	4449.09	No
188	Apple sp.	Malus sp.	Protect - Injury	Alternative 2 Study Area	NA	NA	1362.25	No
189	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	1	NA	289.43	Yes
190	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	2	NA	1027.81	Yes
191	Cherry - Sweet	Prunus avium	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	2016.44	No
192	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	170.47	Yes
193	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	NA	189.34	Yes
194	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 2 Study Area	NA	NA	263.01	No
195	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	920.43	No
196	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	NA	NA	165.20	Yes
197	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	NA	850.07	Yes
198	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	NA	220.91	Yes
199	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	NA	282.08	Yes
200	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	NA	337.54	Yes
201	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	NA	220.91	Yes
202	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	NA	808.13	Yes
203	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	NA	261.92	Yes
204	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	NA	362.75	Yes
205	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	NA	679.22	Yes
206	Cherry - Sweet	Prunus avium	Remove	Alternative 2 Impact Area	1	NA	213.99	Yes
207	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	NA	86.88	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
208	Maple - Manitoba	Acer negundo	10	5	4			12	3	25	Poor	TK3, LN(M), GTF, SB, ST, PP, ML, RP	1.5	Private	No	No
209	Maple - Norway	Acer platanoides	13	12				18	6	20	Fair	GTF, TK2, PP, TD, WNC, ML PB	1.5	City of Mississauga (Road ROW)	No	No
210	Spruce - Norway	Picea abies	29					29	5	15	Good	PP, 1SD, RP	1.8	City of Mississauga (Road ROW)	No	No
211	Maple - Manitoba	Acer negundo	5					5	2	30	Poor	GTF, PP, MB, TD, SB, LS	1.2	City of Mississauga (Road ROW)	No	No
212	Spruce - Norway	Picea abies	31					31	5	15	Good	SL, SF	2.4	Private	No	No
213	Apple sp.	Malus sp.	6	6	6	5		12	2	5	Fair	TK4, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
214	Apple sp.	Malus sp.	12					12	3	20	Fair	LT, PP, MB, WNC, SC,	1.5	Private	No	No
215	Cherry - Sweet	Prunus avium	48					48	5	35	Fair	PP, RH, FK@3M, CD, PC, RP	3	Private	No	No
216	Spruce - Colorado	Picea pungens	47					47	6	25	Fair	LT, PL, CD, CN	3	Private	No	No
217	Mulberry - White	Morus alba	8	7	7	5		14	8	10	Good	TK4, PP, TW, WNC, MB, FS, RP, LT	1.5	City of Mississauga (Road ROW)	No	No
218	Spruce - White	Picea glauca	27					27	5	15	Good	ER, LT, PP, DC	1.8	Private	No	No
219	Cedar - Eastern-White	Thuja occidentalis	8	7	5			12	2	0	Fair	LS, PP, CS	1.5	Private	No	No
220	Spruce - White	Picea glauca	35					35	9	5	Good	LT, SF, DC, PP, TW, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
221	Mulberry - White	Morus alba	7	5				9	4	5	Fair	TK2, LN (L), ST, RP	1.2	City of Mississauga (Road ROW)	No	No
222	Cherry - Sweet	Prunus avium	20					20	6	10	Good	PB, TW, WNC, MB, RP	1.5	Private	No	No
223	Maple - Silver	Acer saccharinum	42					42	15	10	Good	LT, FK4@3M, MB, DC, SN, PP, WNC	3	Private	No	No
224	Cherry sp.	Prunus sp.	4	3	3			6	2	15	Fair	TK3, ML, RP	1.2	Private	No	No
225	Cherry sp.	Prunus sp.	7					7	2	10	Fair	1SD, ML, DC	1.2	Private	No	No
226	Pine - Austrian	Pinus nigra	32					32	9	10	Good	LT, PP, TW, WNC, 1SD, DW, BR3	2.4	City of Mississauga (Road ROW)	No	No
227	Pine - Austrian	Pinus nigra	30					30	8	10	Good	LT, LNM, PP, WNC, DW,	1.8	City of Mississauga (Road ROW)	No	No
228	Maple - Silver	Acer saccharinum	12	11	10	9	8	23	5	5	Good	TK8, SB, FS, ML, RP	1.8	Private	No	No
229	Pine - Austrian	Pinus nigra	27					27	8	10	Good	LT, PP, TW, WNC, 1SD, DW	1.8	Private	No	No
230	Spruce - White	Picea glauca	33					33	6	10	Good	DC, SF, PP	4	Private	Yes	No
231	Spruce - White	Picea glauca	21					21	0	100	Hazard	DW, PB, HP, R,	0	Private	Yes	No
232	Maple - Manitoba	Acer negundo	20	19	16	15		35	10	25	Fair	TK4, SB, FS, GTF, PP, UW, SN, CT, VC, RP	6	City of Mississauga (Road ROW)	Yes	No
233	Cedar - Eastern-White	Thuja occidentalis	14	16	14			25	5	35	Fair	LT, PP, CS, BR1, TW, WC, WNC, SF, PF, BSD,	3.5	City of Mississauga (Road ROW)	Yes	No
234	Maple - Norway	Acer platanoides	12					12	4	10	Good	1SD, UC, LS	3	City of Mississauga (Road ROW)	Yes	No
235	Maple - Norway	Acer platanoides	19					19	8	10	Good	LN (L), FK@2M, UW, RP	5	City of Mississauga (Road ROW)	Yes	No
236	Cedar - Eastern-White	Thuja occidentalis	38					38	6	25	Fair	FK2@2M, SF, PP, SN, DW, ER, IB, LT, CS	4	City of Mississauga (Road ROW)	Yes	No
237	Maple - Norway	Acer platanoides	13	10	9			19	7	10	Good	TK3, DW, FS, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
238	Maple - Norway	Acer platanoides	25					25	6	10	Good	GC, FK@2M, UW, RP	4	City of Mississauga (Road ROW)	Yes	No
239	Cedar - Eastern-White	Thuja occidentalis	14	14				20	4	15	Good	LT, TK2, CS, IB, PP, WC, SF	3	City of Mississauga (Road ROW)	Yes	No
240	Maple - Norway	Acer platanoides	19	14	13			27	7	20	Fair	TK3, FS, 1SD, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
241	Maple - Norway	Acer platanoides	18					18	9	10	Good	UW, LT, PP, DW, RP, FK2@2M, BR1	5.5	City of Mississauga (Road ROW)	Yes	No
242	Maple - Norway	Acer platanoides	22					22	6	10	Good	GTF, FK@2M, MB, UW, TW, WNC, DW, RP	4	City of Mississauga (Road ROW)	Yes	No
243	Fir - Balsam	Abies balsamea	25					25	6	10	Good	LT, DC, SF	4	Private	Yes	No
244	Maple - Norway	Acer platanoides	32					32	13	10	Good	GTF, UW, TW, WC, FK2@3M, DW, PP, MB	7.5	City of Mississauga (Road ROW)	Yes	No
245	Maple - Norway	Acer platanoides	43					43	10	70	Poor	LT, GTF, PF, FK3@1.5M, BR3, BSD, WNC, SN, PP, DW, BC, CD, RP, SC	6	City of Mississauga (Park)	Yes	Yes
246	Maple - Norway	Acer platanoides	5	5	5	4	4	10	4	50	Poor	RFS, TK7, DW, GTF, UW, FS, WNC, PB, RP,	3	City of Mississauga (Road ROW)	Yes	No
247	Maple - Norway	Acer platanoides	3					3	2	10	Fair	RFF, GTF, PP	2.4	City of Mississauga (Park)	Yes	Yes
248	Maple - Norway	Acer platanoides	13	15	10			22	6	20	Poor	GTF, LT, UW, PP, MB, PB, DW, RT, RP	4	City of Mississauga (Road ROW)	Yes	No
249	Cherry - Sweet	Prunus avium	5					5	1	5	Fair	GTF, SL, LS	2.4	City of Mississauga (Park)	Yes	Yes
250	Maple - Manitoba	Acer negundo	13	11				17	5	30	Fair	TK2, FS, GTF, LS, RP	3.5	City of Mississauga (Park)	Yes	Yes
251	Maple - Norway	Acer platanoides	18					18	9	10	Good	LT, RH, PP, UW, CS, LNL, RP	5.5	Private	Yes	No
252	Elm - Siberian	Ulmus pumila	61					61	11	10	Good	FK@2M, FK@3M, RH, ST, PF, NST, DC, RP	8.4	City of Mississauga (Park)	Yes	Yes
253	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	FK@2M, GTF, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
254	Maple - Manitoba	Acer negundo	12					12	4	15	Fair	GTF, CT, SL	3	City of Mississauga (Park)	Yes	Yes
255	Maple - Manitoba	Acer negundo	16	17	17	11	19	36	13	20	Fair	PF, GTF, SC, ST, SB, PP, DW, WNC, BR2, IB, TK6	7.5	City of Mississauga (Park)	Yes	Yes
256	Apple sp.	Malus sp.	30	12				32	7	10	Good	TK2, FK@2M, GTF, SB, 1SD, FS, FK@4M, SC, RP	4.8	City of Mississauga (Park)	Yes	Yes
257	Maple - Manitoba	Acer negundo	17	18				25	8	10	Fair	TK2, LNM, ST, SB, RP, MB	5	City of Mississauga	Yes	Yes
258	Maple - Manitoba	Acer negundo	29					29	6	15	Good	GTF, LN (L), CT, SC, RP	4	City of Mississauga (Park)	Yes	Yes
259	Elm - Siberian	Ulmus pumila	45	42				62	8	15	Good	TK2, IB, FS, LN (M), 1SD	8.4	City of Mississauga (Park)	Yes	Yes
260	Maple - Norway	Acer platanoides	4	5	5	4	4	10	3	10	Poor	ML, MB, LNL, LS, 1SD, BSD, RFS, TK5, WC	2.5	City of Mississauga	Yes	Yes
261	Maple - Manitoba	Acer negundo	39	29	20			53	13	25	Fair	TK3, SB, PF, FK@3M, DW, CT, LN (M), RP	7.5	City of Mississauga (Park)	Yes	Yes
262	Maple - Norway	Acer platanoides	16					16	6	10	Good	GTF, SB, ETB, LS, PP, FS	4	City of Mississauga (Park)	Yes	Yes
263	Cottonwood - Eastern	Populus deltoides	78					78	0	100	Hazard	DW, PP, PB, PC, HP, RM	0	City of Mississauga (Park)	Yes	Yes
264	Maple - Manitoba	Acer negundo	4	3	3	3	3	7	5	5	Fair	TK8, BSD, TD, RT, RP, MB, CT, LNL	3.5	City of Mississauga	Yes	Yes
265	Spruce - Colorado	Picea pungens	17					17	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
266	Spruce - Colorado	Picea pungens	16					16	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
267	Maple - Manitoba	Acer negundo	6	4	3	3	3	9	5	10	Fair	TK5, MB, RT, CT, 1SD, LNL, BSD	3.5	City of Mississauga	Yes	Yes
268	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
269	Spruce - Colorado	Picea pungens	5	5				7	2	0	Fair	LT, RH, TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
270	Spruce - White	Picea glauca	12					12	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
271	Maple - Manitoba	Acer negundo	10	7	3	3		13	5	10	Fair	TK4, RT, LNL, LS, 1SD, TW, WC	3.5	City of Mississauga	Yes	Yes
272	Spruce - White	Picea glauca	10					10	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
273	Spruce - White	Picea glauca	10					10	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
274	Spruce - White	Picea glauca	12					12	3	5	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
275	Maple - Manitoba	Acer negundo	9	5	5	5	4	13	5	10	Fair	TK7, MB, RT, LS, CT, ST,	3.5	City of Mississauga	Yes	Yes
276	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
208	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	116.91	No
209	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	NA	799.69	Yes
210	Spruce - Norway	Picea abies	Remove	Alternative 2 Impact Area	2	NA	2232.40	Yes
211	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	53.82	Yes
212	Spruce - Norway	Picea abies	Protect	Alternative 2 Study Area	NA	NA	2504.09	No
213	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	1	NA	378.17	Yes
214	Apple sp.	Malus sp.	Protect	Alternative 2 Study Area	NA	NA	378.17	No
215	Cherry - Sweet	Prunus avium	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	3520.98	No
216	Spruce - Colorado	Picea pungens	Protect	Alternative 2 Study Area	NA	NA	4439.76	No
217	Mulberry - White	Morus alba	Remove	Alternative 2 Impact Area	1	NA	656.01	Yes
218	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	2097.33	No
219	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	401.09	No
220	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	3	NA	3283.58	Yes
221	Mulberry - White	Morus alba	Remove	Alternative 2 Impact Area	1	NA	326.52	Yes
222	Cherry - Sweet	Prunus avium	Protect	Alternative 2 Study Area	NA	NA	960.96	No
223	Maple - Silver	Acer saccharinum	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	3643.17	No
224	Cherry sp.	Prunus sp.	Protect	Alternative 2 Study Area	NA	NA	182.32	No
225	Cherry sp.	Prunus sp.	Protect	Alternative 2 Study Area	NA	NA	199.02	No
226	Pine - Austrian	Pinus nigra	Remove	Alternative 2 Impact Area	3	NA	2348.51	Yes
227	Pine - Austrian	Pinus nigra	Remove	Alternative 2 Impact Area	2	NA	2099.40	Yes
228	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Study Area	NA	NA	1280.22	No
229	Pine - Austrian	Pinus nigra	Protect	Alternative 2 Study Area	NA	NA	1755.86	No
230	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	2958.32	No
231	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	176.07	No
232	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1222.28	Yes
233	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	1256.97	Yes
234	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	3	641.54	Yes
235	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1112.08	Yes
236	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	3	15	2714.29	Yes
237	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1112.08	Yes
238	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1684.55	Yes
239	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	3	1105.30	Yes
240	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1480.30	Yes
241	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1031.85	Yes
242	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1378.80	Yes
243	Fir - Balsam	Abies balsamea	Protect	Alternative 2 Study Area	NA	NA	1165.13	No
244	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	3	15	2549.75	Yes
245	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	3	20	1898.18	Yes
246	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	1	1	238.93	Yes
247	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	270.32	No
248	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	2	10	603.23	Yes
249	Cherry - Sweet	Prunus avium	Protect	Alternative 2 Study Area	NA	NA	197.95	No
250	Maple - Manitoba	Acer negundo	Protect	Alternative 2 Study Area	NA	NA	343.26	No
251	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 2 Study Area	NA	NA	1031.85	No
252	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	4795.81	No
253	Maple - Manitoba	Acer negundo	Protect	Alternative 2 Study Area	NA	NA	117.88	No
254	Maple - Manitoba	Acer negundo	Protect	Alternative 2 Study Area	NA	NA	207.09	No
255	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1288.96	Yes
256	Apple sp.	Malus sp.	Protect	Alternative 2 Study Area	NA	NA	2087.50	No
257	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	658.81	Yes
258	Maple - Manitoba	Acer negundo	Protect	Alternative 2 Study Area	NA	NA	1111.82	No
259	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	4948.78	No
260	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	1	238.93	Yes
261	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	2709.84	No
262	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	884.40	No
263	Cottonwood - Eastern	Populus deltoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	1651.80	Yes
264	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	117.88	Yes
265	Spruce - Colorado	Picea pungens	Protect	Alternative 2 Study Area	NA	NA	1075.54	No
266	Spruce - Colorado	Picea pungens	Protect	Alternative 2 Study Area	NA	NA	995.56	No
267	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	147.93	Yes
268	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	758.01	Yes
269	Spruce - Colorado	Picea pungens	Remove	Alternative 2 Impact Area	1	1	382.76	Yes
270	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	698.22	Yes
271	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	230.57	Yes
272	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	592.99	Yes
273	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	592.99	Yes
274	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	698.22	Yes
275	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	230.57	Yes
276	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	758.01	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
277	Spruce - White	Picea glauca	9					9	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
278	Maple - Manitoba	Acer negundo	8	5	3			10	4	15	Fair	TK3, SB, ST, MB, RT, LS, CT	3	City of Mississauga	Yes	Yes
279	Maple - Manitoba	Acer negundo	5	3	3	3		7	3	15	Fair	TK3, RT, MB, SB, CT, LS, SC	2.5	City of Mississauga	Yes	Yes
280	Pine - Eastern White	Pinus strobus	24					24	5	5	Good	LY, DC, SF	3.5	Private	Yes	No
281	Pine - Eastern White	Pinus strobus	22					22	4	15	Good	LT, DC, DW, RP	3	Private	Yes	No
282	Pine - Eastern White	Pinus strobus	21					21	3	10	Good	LT, SL, SF	2.5	Private	Yes	No
283	Walnut - Black	Juglans nigra	5	4				6	3	20	Fair	TK2, RT, FS, CR, SF, LS	2.5	City of Mississauga	Yes	Yes
284	Pine - Eastern White	Pinus strobus	23					23	5	0	Good	LT, DC, SF	3.5	Private	Yes	No
285	Spruce - White	Picea glauca	8					8	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
286	Spruce - White	Picea glauca	5	4				6	1	10	Fair	LT, TK2, ML, RP, RH	2.4	City of Mississauga	Yes	Yes
287	Maple - Manitoba	Acer negundo	9					9	5	10	Good	LNL, FK2@2.5M, UC, RP	3.5	City of Mississauga	Yes	Yes
288	Spruce - White	Picea glauca	8					8	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
289	Maple - Manitoba	Acer negundo	4					4	2	15	Fair	LS, SF, LNL, CT, RP	2.4	City of Mississauga	Yes	Yes
290	Spruce - White	Picea glauca	9					9	2	10	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
291	Spruce - White	Picea glauca	7					7	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
292	Maple - Manitoba	Acer negundo	4					4	1	30	Fair	LS, FS, RP, CT, SF	2.4	City of Mississauga	Yes	Yes
293	Spruce - White	Picea glauca	8					8	3	10	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
294	Pine - Eastern White	Pinus strobus	7					7	0	100	Dead	DW, RM	0	Private	Yes	No
295	Pine - Eastern White	Pinus strobus	21					21	5	15	Good	LT, SF	3.5	Private	Yes	No
296	Maple - Manitoba	Acer negundo	4	3	4			6	3	5	Fair	LS, TK2, CT, RT	2.5	City of Mississauga	Yes	Yes
297	Pine - Eastern White	Pinus strobus	19					19	4	5	Good	LT, DC, SF	3	Private	Yes	No
298	Pine - Eastern White	Pinus strobus	18					18	3	25	Fair	LT, DC, SF, CD	2.5	Private	Yes	No
299	Pine - Eastern White	Pinus strobus	20					20	4	10	Fair	FK@2M, LT, ML, RP	3	Private	Yes	No
300	Pine - Eastern White	Pinus strobus	19					19	3	15	Fair	FK@3M, LT, ML, RP	2.5	Private	Yes	No
301	Maple - Norway	Acer platanoides	46					46	10	10	Good	LT, FK@4M, MB, DC, RP	6	Private	Yes	No
302	Elm - Siberian	Ulmus pumila	6					6	2	15	Fair	GTF, 1SD, UC	2.4	City of Mississauga	Yes	Yes
303	Olive - Russian	Elaeagnus angustifolia	69					69	18	30	Good	ER, BSD, DC, FK2@2M, BR3, DW, SC, SN, PP, WNC, RP, PB	10	City of Mississauga	Yes	Yes
304	Ash - White	Fraxinus americana	7					7	2	35	Fair	ML, EAB, PB, RM	2.4	City of Mississauga	Yes	Yes
305	Ash - White	Fraxinus americana	5					5	2	65	Poor	EAB, DW, RM	2.4	City of Mississauga	Yes	Yes
306	Maple - Manitoba	Acer negundo	7	4				8	4	15	Fair	TK2, LS, SF, TD, WC, CT	3	City of Mississauga	Yes	Yes
307	Maple - Manitoba	Acer negundo	11	8				14	5	10	Good	TK2, MB, SC, RP	3.5	City of Mississauga	Yes	Yes
308	Maple - Manitoba	Acer negundo	5	3	3			7	4	20	Fair	LS, TK3, SF, CT, PP, WNC, RT	3	City of Mississauga	Yes	Yes
309	Maple - Manitoba	Acer negundo	17					17	5	5	Good	FK@2M, DC, RP	3.5	City of Mississauga	Yes	Yes
310	Walnut - Black	Juglans nigra	3					3	1	5	Fair	SL, SF	2.4	City of Mississauga	Yes	Yes
311	Maple - Manitoba	Acer negundo	7					7	3	20	Poor	LS, SF, LNM, RH, UC, BSD	2.5	City of Mississauga	Yes	Yes
312	Maple - Sugar	Acer saccharum	14					14	5	5	Good	DC, SF, NST	3.5	City of Mississauga	Yes	Yes
313	Maple - Manitoba	Acer negundo	13					13	8	10	Good	LT, CT, SB, RP	5	City of Mississauga	Yes	Yes
314	Maple - Sugar	Acer saccharum	12					12	4	10	Good	DC, SF	3	City of Mississauga	Yes	Yes
315	Maple - Manitoba	Acer negundo	6	3	2			7	3	20	Fair	TK3, SB, 1SD, LS	2.5	City of Mississauga	Yes	Yes
316	Maple - Manitoba	Acer negundo	25					25	10	10	Good	GTF, FK2@4M, UC, LNL, MB, RP	6	City of Mississauga	Yes	Yes
317	Maple - Sugar	Acer saccharum	14					14	5	5	Good	MB, DC	3.5	City of Mississauga	Yes	Yes
318	Maple - Sugar	Acer saccharum	14					14	5	0	Good	MB, FS, DC, RP	3.5	City of Mississauga	Yes	Yes
319	Spruce - Colorado	Picea pungens	33					33	6	5	Good	LT, PP, SF	4.8	City of Mississauga	Yes	Yes
320	Maple - Sugar	Acer saccharum	13					13	5	5	Good	MB, DC, BR1, FS, RP	3.5	City of Mississauga	Yes	Yes
321	Maple - Sugar	Acer saccharum	15					15	5	5	Good	DC, MB, FS, RP	3.5	City of Mississauga	Yes	Yes
322	Maple - Manitoba	Acer negundo	5	3	2	2		6	4	15	Fair	TK4, LS, 1SD, RP, RT	3	City of Mississauga	Yes	Yes
323	Maple - Norway	Acer platanoides	28					28	10	15	Good	FK2@4M, 1SD, UC, LNL,	6	City of Mississauga	Yes	Yes
324	Maple - Manitoba	Acer negundo	3	3	3			5	3	5	Fair	TK3, RT, SB, RFS	2.5	City of Mississauga	Yes	Yes
325	Maple - Manitoba	Acer negundo	6					6	3	5	Good	RT, SB, RP	2.5	City of Mississauga	Yes	Yes
326	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	Fair	2.4	City of Mississauga	Yes	Yes
327	Spruce - White	Picea glauca	13					13	3	0	Good	LT, SF, DC	2.5	City of Mississauga	Yes	Yes
328	Spruce - White	Picea glauca	13					13	3	5	Good	SF, DC	2.5	City of Mississauga	Yes	Yes
329	Spruce - White	Picea glauca	14					14	4	0	Good	DC, SF	3	City of Mississauga	Yes	Yes
330	Maple - Manitoba	Acer negundo	6	5				8	2	10	Fair	TK2, SB, ML, FK@3M, RP, RT	2.4	City of Mississauga	Yes	Yes
331	Spruce - White	Picea glauca	12					12	3	15	Good	SL, PP, WNC, LS	2.5	City of Mississauga	Yes	Yes
332	Spruce - White	Picea glauca	10					10	3	10	Good	DC, SF	2.5	City of Mississauga	Yes	Yes
333	Spruce - White	Picea glauca	9					9	3	15	Good	LS, 1SD, SF	2.5	City of Mississauga	Yes	Yes
334	Spruce - White	Picea glauca	3					3	1	25	Fair	LS, PL, DW, RP	2.4	City of Mississauga	Yes	Yes
335	Spruce - White	Picea glauca	5					5	2	10	Fair	DC, SF, LS, PL	2.4	City of Mississauga	Yes	Yes
336	Spruce - White	Picea glauca	6					6	2	25	Fair	LS, PL, CD	2.4	City of Mississauga	Yes	Yes
337	Maple - Manitoba	Acer negundo	13					13	4	10	Good	ER, FK@3M, ML, RP	3	City of Mississauga	Yes	Yes
338	Spruce - White	Picea glauca	6					6	2	15	Fair	LS, DC, FS, SF	2.4	City of Mississauga	Yes	Yes
339	Maple - Norway	Acer platanoides	25					25	9	10	Good	CS, 1SD, UC, PP	5.5	City of Mississauga	Yes	Yes
340	Cedar - Eastern-White	Thuja occidentalis	5	4				6	1	10	Fair	TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
341	Apple sp.	Malus sp.	15	15	10			23	4	30	Fair	LS, SC, MB, CT, TK3, DW	3.6	City of Mississauga	Yes	Yes
342	Alder - European	Alnus glutinosa	7					7	2	20	Fair	CT, SL, DE (canker)	2.4	City of Mississauga	Yes	Yes
343	Maple - Norway	Acer platanoides	18					18	8	10	Good	LT, SN, SF	5	City of Mississauga	Yes	Yes
344	Maple - Norway	Acer platanoides	12					12	3	20	Fair	LS, SL, FK2@5M, IB	2.5	City of Mississauga	Yes	Yes
345	Walnut - Black	Juglans nigra	16					16	5	25	Fair	LN (L), CT, FK@6M, 1SD, RP	3.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
277	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	547.54	Yes
278	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	165.77	Yes
279	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	117.88	Yes
280	Pine - Eastern White	Pinus strobus	Remove	Alternative 2 Study Area	NA	10	1689.29	No
281	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 2 Study Area	NA	NA	1469.26	No
282	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 2 Study Area	NA	NA	1366.42	No
283	Walnut - Black	Juglans nigra	Remove	Alternative 2 Impact Area	1	1	315.91	Yes
284	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 2 Study Area	NA	NA	1576.88	No
285	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	506.89	Yes
286	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	340.94	Yes
287	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	190.87	Yes
288	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	506.89	Yes
289	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	86.88	Yes
290	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	547.54	Yes
291	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	471.01	Yes
292	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	86.88	Yes
293	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	506.89	Yes
294	Pine - Eastern White	Pinus strobus	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	53.61	No
295	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	1366.42	No
296	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	105.67	Yes
297	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	1175.08	No
298	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	842.11	No
299	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	982.98	No
300	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	910.69	No
301	Maple - Norway	Acer platanoides	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	4917.67	No
302	Elm - Siberian	Ulmus pumila	Remove	Alternative 2 Impact Area	1	1	165.03	Yes
303	Olive - Russian	Elaeagnus angustifolia	Remove	Alternative 2 Impact Area	5	40	8717.27	Yes
304	Ash - White	Fraxinus americana	Remove	Alternative 2 Impact Area	1	1	245.97	Yes
305	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	1	114.75	Yes
306	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	131.96	Yes
307	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	330.23	Yes
308	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	117.88	Yes
309	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	3	442.92	Yes
310	Walnut - Black	Juglans nigra	Remove	Alternative 2 Impact Area	NA	1	271.20	Yes
311	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	1	66.54	Yes
312	Maple - Sugar	Acer saccharum	Remove	Alternative 2 Impact Area	1	3	849.32	Yes
313	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	297.51	Yes
314	Maple - Sugar	Acer saccharum	Remove	Alternative 2 Impact Area	1	3	721.64	Yes
315	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	117.88	Yes
316	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	850.07	Yes
317	Maple - Sugar	Acer saccharum	Remove	Alternative 2 Impact Area	1	3	849.32	Yes
318	Maple - Sugar	Acer saccharum	Remove	Alternative 2 Impact Area	1	3	849.32	Yes
319	Spruce - Colorado	Picea pungens	Remove	Alternative 2 Impact Area	3	15	3014.36	Yes
320	Maple - Sugar	Acer saccharum	Remove	Alternative 2 Impact Area	1	3	783.03	Yes
321	Maple - Sugar	Acer saccharum	Remove	Alternative 2 Impact Area	1	3	920.53	Yes
322	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	105.67	Yes
323	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	2029.33	Yes
324	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	95.34	Yes
325	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	136.34	Yes
326	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	86.88	Yes
327	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	758.01	Yes
328	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	758.01	Yes
329	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	822.58	Yes
330	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	131.96	Yes
331	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	3	698.22	Yes
332	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	592.99	Yes
333	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	547.54	Yes
334	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	NA	1	290.89	Yes
335	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	NA	1	320.55	Yes
336	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	340.94	Yes
337	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	297.51	Yes
338	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	1	1	340.94	Yes
339	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1684.55	Yes
340	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	208.92	Yes
341	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	2	10	920.51	Yes
342	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	225.00	Yes
343	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1031.85	Yes
344	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	3	497.19	Yes
345	Walnut - Black	Juglans nigra	Remove	Alternative 2 Impact Area	2	3	680.19	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
346	Maple - Norway	Acer platanoides	12					12	3	100	Dead	GTF, Dead	0	City of Mississauga	Yes	Yes
347	Maple - Manitoba	Acer negundo	18					18	4	15	Good	TOB, LN (L), CT, 1SD	3	City of Mississauga	Yes	Yes
348	Walnut - Black	Juglans nigra	3					3	2	25	Fair	SP, SL, LS, CT	2.4	City of Mississauga	Yes	Yes
349	Maple - Norway	Acer platanoides	23	4				23	7	10	Good	1SS, UC, ER, TK2, RT	4.5	City of Mississauga	Yes	Yes
350	Maple - Norway	Acer platanoides	12	11	8			18	4	20	Good	TK3, TOB, SL, RP, RT	3	City of Mississauga	Yes	Yes
351	Maple - Manitoba	Acer negundo	17	14				22	0	100	Dead	TK2, BOB, CT, DW, PB, RM	0	City of Mississauga	Yes	Yes
352	Maple - Silver	Acer saccharinum	6	4				7	4	20	Poor	TK2, ER, RH, SL, LNL, growing out of rip rap	3	City of Mississauga	Yes	Yes
353	Maple - Norway	Acer platanoides	32					32	10	15	Good	BOB, GTF, MB, SN, RP	6	City of Mississauga	Yes	Yes
354	Maple - Norway	Acer platanoides	34					34	11	10	Good	ER, TOB, MB, FS, SN, RP	6.5	Private	Yes	No
355	Maple - Norway	Acer platanoides	23	22				32	11	10	Good	TK2, IB, ER, SN, FS	6.5	City of Mississauga	Yes	Yes
356	Maple - Sugar	Acer saccharum	27					27	6	35	Fair	FK@4M, TOB, SL, RH, CD, DW, RP	4	Private	Yes	No
357	Spruce - White	Picea glauca	5					5	1	60	Poor	LS, 1SD, CD, UC	2.4	City of Mississauga	Yes	Yes
358	Maple - Norway	Acer platanoides	16					16	4	10	Good	GTF, BOB, FK@6M, ML, RP	3	City of Mississauga	Yes	Yes
359	Maple - Norway	Acer platanoides	14	12				18	5	15	Good	TK2, BOB, GTF, SN	3.5	City of Mississauga	Yes	Yes
360	Maple - Manitoba	Acer negundo	16					16	6	100	Dead	BSD, DW, Dead	0	City of Mississauga	Yes	Yes
361	Cherry - Sweet	Prunus avium	21	18	11	10		31	3	45	Poor	TK4, CD, CS, DW, RP	2.5	Private	Yes	No
362	Maple - Norway	Acer platanoides	6	5				8	4	15	Poor	PF, GTF, TK2, SL, LS, BSD, WNC	3	City of Mississauga	Yes	Yes
363	Maple - Manitoba	Acer negundo	40					40	9	25	Fair	ER, SB, TOB, FK@2M, LN (M), 1SD, UC, DW, RP	5.5	City of Mississauga	Yes	Yes
364	Elm - Siberian	Ulmus pumila	8					8	4	10	Fair	RB, CT, 1SD, ML, RP	3	Private	Yes	No
365	Ash - White	Fraxinus americana	3					3	2	35	Fair	SL, LS	2.4	City of Mississauga	Yes	Yes
366	Ash - White	Fraxinus americana	18					18	0	100	Dead	EAB, DW, SN, RM	0	City of Mississauga	Yes	Yes
367	Maple - Silver	Acer saccharinum	53	44				69	18	20	Good	TK2, IB, SC, SN, DW, DC, RP, RT	10	City of Mississauga	Yes	Yes
368	Elm - Siberian	Ulmus pumila	31					31	6	25	Fair	1SD, NST, SN, CD	4	Private	Yes	No
369	Maple - Manitoba	Acer negundo	3	2	2	2	2	5	2	20	Poor	RFS, TK5, DW, RT	2.4	City of Mississauga	Yes	Yes
370	Elm - Siberian	Ulmus pumila	8					8	2	50	Poor	TOB, LN(L), 1SD	2	Private	Yes	No
371	Maple - Norway	Acer platanoides	4					4	1	20	Fair	SL, LS, CT	1.5	Private	Yes	No
372	Ash - White	Fraxinus americana	4					4	0	100	Dead	DW, RM	0	Private	Yes	No
373	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
374	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
375	Elm - Siberian	Ulmus pumila	23					23	6	20	Fair	LN (M), CT, DW, SL, RP	4	Private	Yes	No
376	Maple - Norway	Acer platanoides	15	16				22	10	10	Good	TK2, TD, WNC, SN, PP, UC, 1SD	6	City of Mississauga	Yes	Yes
377	Spruce - White	Picea glauca	19					19	6	15	Good	LS, PP, WC,	4	City of Mississauga	Yes	Yes
378	Maple - Manitoba	Acer negundo	31					31	8	10	Good	MOB, LN(L), DE, CT, PF, RP	5	Private	Yes	No
379	Maple - Silver	Acer saccharinum	27	38	24			52	16	15	Good	TK3, DC, BR1, PP, WNC, DW	9	City of Mississauga	Yes	Yes
380	Ash - White	Fraxinus americana	4	3				5	1	25	Fair	TK2, SL, RT	1.5	Private	Yes	No
381	Maple - Manitoba	Acer negundo	30	11	10	10		35	11	40	Fair	TK4, GC, LN (M), CT, DW, 1SD, UC, RP	6.5	Private	Yes	No
382	Maple - Silver	Acer saccharinum	27	48				55	17	10	Good	TK2, FK2@1.5M, DC, CT	9.5	City of Mississauga	Yes	Yes
383	Ash - White	Fraxinus americana	18					18	0	100	Dead	LN (L), EAB, PB, DW, RM	0	Private	Yes	No
384	Apple sp.	Malus sp.	12	7				14	5	15	Good	TK2, LN (L), 1SD, UC, LS, RP	3.5	Private	Yes	No
385	Maple - Silver	Acer saccharinum	73					73	20	10	Good	FK2@1.4M, IB, SC, MB, FS, RP, PP, WNC, SN	11	City of Mississauga	Yes	Yes
386	Ash - White	Fraxinus americana	3	2				4	0	100	Dead	TK2, DW, RM	0	Private	Yes	No
387	Maple - Manitoba	Acer negundo	44					44	13	15	Fair	TT, CV, LN (L), CT, 1SD, UC, SB, SC, FS, PF, RP	7.5	Private	Yes	No
388	Maple - Silver	Acer saccharinum	49					49	16	15	Good	TW, WNC, SC, LNL, UC, RP	9	City of Mississauga	Yes	Yes
389	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, PB, DW, RM	0	Private	Yes	No
390	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, TK2, DW, Topped	0	Private	Yes	No
391	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
392	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
393	Maple - Manitoba	Acer negundo	16					16	4	40	Poor	CT, LN (L), DW, LS, SL	3	Private	Yes	No
394	Ash - White	Fraxinus americana	3					3	1	15	Fair	SP, SL, LS	1.5	Private	Yes	No
395	Spruce - White	Picea glauca	19					19	3	100	Dead	LS, DW, PB	0	Private	Yes	No
396	Ash - White	Fraxinus americana	5	4	3			7	3	30	Fair	TK3, EAB, SL, RM	2.5	Private	Yes	No
397	Spruce - White	Picea glauca	33					33	5	15	Good	ER, CT, UC, DW	4.8	City of Mississauga	Yes	Yes
398	Maple - Manitoba	Acer negundo	30	29				42	13	35	Poor	TK2, LN (H), DW, MB, CT, FS, RP	7.5	Private	Yes	No
399	Maple - Norway	Acer platanoides	9	4				10	6	10	Fair	TK2, TOB, ER, LS, SF, RT	4	Private	Yes	No
400	Ash - Green	Fraxinus pennsylvanica	3	2				4	1	10	Good	TK2, LS	2.4	City of Mississauga	Yes	Yes
401	Ash - White	Fraxinus americana	20					20	0	100	Dead	EAB, DW, MB, RM	0	Private	Yes	No
402	Maple - Norway	Acer platanoides	11					11	5	10	Good	BOB, LS, UC, DW	3.5	Private	Yes	No
403	Maple - Manitoba	Acer negundo	41					41	14	25	Fair	LN (L), FK@2M, DE, 1SD	8	Private	Yes	No
404	Maple - Norway	Acer platanoides	9	3				9	3	15	Good	BOB, SL, UC, TK2	2.5	Private	Yes	No
405	Maple - Norway	Acer platanoides	7					7	3	15	Fair	MOB, LS, SF	2.5	Private	Yes	No
406	Maple - Manitoba	Acer negundo	15					15	3	60	Poor	LN (H), DW, CD, RM	2.5	Private	Yes	No
407	Maple - Norway	Acer platanoides	3	2	2			4	3	10	Fair	TK3, LS, RT	2.5	Private	Yes	No
408	Maple - Norway	Acer platanoides	7	5				9	4	15	Fair	TK2, RT, UC, FS, RP, LS, TW, WC	3	City of Mississauga	Yes	Yes
409	Ash - White	Fraxinus americana	27					27	0	100	Fair	EAB, DW, BOB, DW, RM	3.6	City of Mississauga	Yes	Yes
410	Ash - White	Fraxinus americana	7					7	0	100	Dead	LN (M), BOB, ER, DW, RM	0	City of Mississauga	Yes	Yes
411	Ash - White	Fraxinus americana	12	12				17	4	100	Dead	RPM, TK2, PB, DW, fallen into creek	0	City of Mississauga	Yes	Yes
412	Cedar - Eastern-White	Thuja occidentalis	4	4				6	1	15	Fair	TK2, LS, DC	2.4	City of Mississauga	Yes	Yes
413	Cedar - Eastern-White	Thuja occidentalis	4	3				5	1	10	Good	LS, TK2, RT	2.4	City of Mississauga	Yes	Yes
414	Cedar - Eastern-White	Thuja occidentalis	5					5	1	10	Fair	DC, SF, PP	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
346	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	80.19	Yes
347	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	3	485.33	Yes
348	Walnut - Black	Juglans nigra	Remove	Alternative 2 Impact Area	NA	1	271.20	Yes
349	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1476.38	Yes
350	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1031.85	Yes
351	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	84.90	Yes
352	Maple - Silver	Acer saccharinum	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	1	158.30	Yes
353	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	3	15	2549.75	Yes
354	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 2 Study Area	NA	NA	2835.98	No
355	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	3	15	2549.75	Yes
356	Maple - Sugar	Acer saccharum	Protect	Alternative 2 Study Area	NA	NA	1672.50	No
357	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	1	180.96	Yes
358	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	884.40	Yes
359	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1031.85	Yes
360	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	50.37	Yes
361	Cherry - Sweet	Prunus avium	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	15	882.19	No
362	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	1	204.78	Yes
363	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1574.45	Yes
364	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	192.02	No
365	Ash - White	Fraxinus americana	Remove	Alternative 2 Impact Area	NA	1	174.80	Yes
366	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	118.60	Yes
367	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	5	40	9377.37	Yes
368	Elm - Siberian	Ulmus pumila	Protect - Injury	Alternative 2 Study Area	NA	NA	1056.57	No
369	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	1	53.82	Yes
370	Elm - Siberian	Ulmus pumila	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	1	108.40	No
371	Maple - Norway	Acer platanoides	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	282.08	No
372	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	30.20	No
373	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	2	3	1015.62	Yes
374	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	2	3	1015.62	Yes
375	Elm - Siberian	Ulmus pumila	Protect - Injury	Alternative 2 Study Area	NA	NA	640.20	No
376	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1378.80	Yes
377	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	2	3	1217.20	Yes
378	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	1257.23	No
379	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	4	30	5441.68	Yes
380	Ash - White	Fraxinus americana	Protect	Alternative 2 Study Area	NA	NA	203.27	No
381	Maple - Manitoba	Acer negundo	Protect - Injury	Alternative 2 Study Area	NA	NA	1222.28	No
382	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	4	30	6055.86	Yes
383	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	118.60	No
384	Apple sp.	Malus sp.	Protect	Alternative 2 Study Area	NA	NA	582.48	No
385	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	5	50	10464.14	Yes
386	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	30.20	No
387	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	1889.99	No
388	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	4	20	4861.95	Yes
389	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	48.86	No
390	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	48.86	No
391	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	2	10	1091.62	Yes
392	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	2	10	1091.62	Yes
393	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	3	176.28	No
394	Ash - White	Fraxinus americana	Protect	Alternative 2 Study Area	NA	NA	174.80	No
395	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	152.15	No
396	Ash - White	Fraxinus americana	Protect	Alternative 2 Study Area	NA	NA	245.97	No
397	Spruce - White	Picea glauca	Remove	Alternative 2 Impact Area	3	15	2958.32	Yes
398	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	20	975.75	No
399	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	423.25	No
400	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 2 Impact Area	NA	1	219.71	Yes
401	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	140.41	No
402	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 2 Study Area	NA	NA	591.66	No
403	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	1650.52	No
404	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 2 Study Area	NA	NA	504.93	No
405	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	337.54	No
406	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	3	159.85	No
407	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	282.08	No
408	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	391.32	Yes
409	Ash - White	Fraxinus americana	Protect	Alternative 2 Study Area	NA	NA	1455.96	No
410	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	39.67	Yes
411	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Study Area	NA	NA	108.55	Yes
412	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	208.92	Yes
413	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	244.31	Yes
414	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	189.34	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
415	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	1	10	Good	TK4, LS, DC	2.4	City of Mississauga	Yes	Yes
416	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	15	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
417	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	10	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
418	Cedar - Eastern-White	Thuja occidentalis	4	4	3	3	2	7	2	10	Good	TK6, LS	2.4	City of Mississauga	Yes	Yes
419	Cedar - Eastern-White	Thuja occidentalis	3	1				3	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
420	Cedar - Eastern-White	Thuja occidentalis	4	3				5	2	5	Good	TK2, DC, LS	2.4	City of Mississauga	Yes	Yes
421	Cedar - Eastern-White	Thuja occidentalis	5					5	2	10	Fair	TK2, FS, RP	2.4	City of Mississauga	Yes	Yes
422	Cedar - Eastern-White	Thuja occidentalis	5	5				7	2	25	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
423	Cedar - Eastern-White	Thuja occidentalis	4	4	4	3		8	2	10	Good	TK4, LS	2.4	City of Mississauga	Yes	Yes
424	Cedar - Eastern-White	Thuja occidentalis	3	2	1			4	1	25	Fair	TK3, ML, RP	2.4	City of Mississauga	Yes	Yes
425	Cedar - Eastern-White	Thuja occidentalis	5	3	2			6	1	5	Good	LS, TK3	2.4	City of Mississauga	Yes	Yes
426	Cedar - Eastern-White	Thuja occidentalis	3	2				4	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
427	Cedar - Eastern-White	Thuja occidentalis	5					5	2	30	Fair	SF, LS	2.4	City of Mississauga	Yes	Yes
428	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	1	10	Good	LS, FS, TK5	2.4	City of Mississauga	Yes	Yes
429	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	1	6	2	15	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
430	Cedar - Eastern-White	Thuja occidentalis	3	2	2	1		4	1	15	Fair	TK4, LS, FS, RP	2.4	City of Mississauga	Yes	Yes
431	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2	2	5	1	10	Fair	TK6, FS, LS	2.4	City of Mississauga	Yes	Yes
432	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2		5	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
433	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	2	30	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
434	Cedar - Eastern-White	Thuja occidentalis	3	3	3	2		6	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
435	Cedar - Eastern-White	Thuja occidentalis	4	4				6	3	15	Fair	TK2, DC, RP	2.5	City of Mississauga	Yes	Yes
436	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	2	10	Fair	TK4, DC, RP	2.4	City of Mississauga	Yes	Yes
437	Cedar - Eastern-White	Thuja occidentalis	3	3				4	1	15	Good	LS, TK2, FS, MB	2.4	City of Mississauga	Yes	Yes
438	Cedar - Eastern-White	Thuja occidentalis	4	3	3	3		7	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga	Yes	Yes
439	Cedar - Eastern-White	Thuja occidentalis	4	3	3			6	2	10	Good	TK3, ML, LS, FS	2.4	City of Mississauga	Yes	Yes
440	Maple - Norway	Acer platanoides	34					34	6	25	Fair	PP, 1SD, UC, FK@4M	4	Private	Yes	No
441	Spruce - Colorado	Picea pungens	17					17	2	85	Poor	CD, DW, SL, PP, RM	2	City of Mississauga (Road ROW)	Yes	No
442	Maple - Manitoba	Acer negundo	4	4				6	2	5	Good	LT, TK2	2	Private	Yes	No
443	Walnut - Black	Juglans nigra	11					11	5	15	Good	CS, MB, ML, RP	3.5	Private	Yes	No
444	Spruce - Colorado	Picea pungens	30					30	8	25	Fair	CD, DW, DC, SF	5	Private	Yes	No
445	Alder - European	Alnus glutinosa	7					7	3	25	Good	LNM, DW, BR1, SB	2.5	City of Mississauga	Yes	Yes
446	Alder - European	Alnus glutinosa	8	3				9	2	30	Good	TK2, SL, DW	2.4	City of Mississauga	Yes	Yes
447	Maple - Silver	Acer saccharinum	7	5	3			9	3	10	Fair	TK3, RH, FS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
448	Alder - European	Alnus glutinosa	11	9				14	4	10	Good	TK2, SL, SF, RT	3	City of Mississauga	Yes	Yes
449	Maple - Manitoba	Acer negundo	9					9	2	20	Good	SL, LS, DW	2.4	City of Mississauga	Yes	Yes
450	Maple - Manitoba	Acer negundo	13	10	9	9		21	7	10	Good	TK4, MB, ML, RP, RT	4.5	City of Mississauga	Yes	Yes
451	Maple - Manitoba	Acer negundo	15	10				18	6	25	Fair	MB, RP, DW	4	City of Mississauga	Yes	Yes
452	Maple - Manitoba	Acer negundo	9	7				11	5	20	Good	MB, RT, RP, DW, CT, SB	3.5	City of Mississauga	Yes	Yes
453	Maple - Silver	Acer saccharinum	14	13	12			23	5	5	Good	TK3, SB, FS, SN, CT, ML, RP	3.6	City of Mississauga	Yes	Yes
454	Alder - European	Alnus glutinosa	9					9	2	15	Good	SL, SF, DE (canker)	2.4	City of Mississauga	Yes	Yes
455	Alder - European	Alnus glutinosa	7					7	1	25	Good	DE, SL, LS, DW	2.4	City of Mississauga	Yes	Yes
456	Maple - Manitoba	Acer negundo	9	7				11	4	15	Fair	TK2, SL, CT, DW, RT	3	City of Mississauga	Yes	Yes
457	Maple - Manitoba	Acer negundo	8	8	7	6		15	7	15	Good	TK4, UC, RT, RP, TD, MB	4.5	City of Mississauga	Yes	Yes
458	Maple - Silver	Acer saccharinum	17					17	4	10	Good	FK@2M, SL, RP	3	City of Mississauga	Yes	Yes
459	Alder - European	Alnus glutinosa	10	9	5			14	5	15	Good	TK3, DW, DE, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
460	Maple - Manitoba	Acer negundo	24					24	6	10	Good	LN (L), FK@3M, DW, RP	4	City of Mississauga	Yes	Yes
461	Maple - Manitoba	Acer negundo	5	5	7	5	4	12	8	20	Good	RT, TK8, LS, MB, CT	5	City of Mississauga	Yes	Yes
462	Alder - European	Alnus glutinosa	12					12	2	20	Good	DE, DW	2.4	City of Mississauga	Yes	Yes
463	Maple - Manitoba	Acer negundo	24					24	6	15	Good	LN (L), CT, TT, DW, 1SD, RP	4	City of Mississauga	Yes	Yes
464	Maple - Manitoba	Acer negundo	21					21	6	10	Good	LN (L), FK@4M, DW, FS, RP	4	City of Mississauga	Yes	Yes
465	Alder - European	Alnus glutinosa	10					10	3	30	Good	DW, SL	2.5	City of Mississauga	Yes	Yes
466	Maple - Manitoba	Acer negundo	4	4				6	2	20	Good	LS, RT, TK2, CT	2.4	City of Mississauga	Yes	Yes
467	Maple - Silver	Acer saccharinum	9					9	3	15	Fair	LN (L), CT, 1SD, LD	2.5	City of Mississauga	Yes	Yes
468	Alder - European	Alnus glutinosa	12					12	2	60	Fair	DE (canker), DW, CD, SL	2.4	City of Mississauga	Yes	Yes
469	Alder - European	Alnus glutinosa	8	5				9	3	30	Fair	TK2, DE, LN (L), 1SD, RP	2.5	City of Mississauga	Yes	Yes
470	Alder - European	Alnus glutinosa	7					7	2	30	Fair	SL, SF, DE	2.4	City of Mississauga	Yes	Yes
471	Maple - Freeman	Acer x freemanii	19					19	5	10	Good	SB, FK2@2M, RP, MB	3.5	City of Mississauga	Yes	Yes
472	Alder - European	Alnus glutinosa	11					11	3	15	Good	SF, SL, DE	2.5	City of Mississauga	Yes	Yes
473	Maple - Manitoba	Acer negundo	5					5	2	10	Good	LS, CT, SL	2.4	City of Mississauga	Yes	Yes
474	Maple - Freeman	Acer x freemanii	17					17	4	10	Good	TK2, RH, FS, BR1, SL, RP	3	City of Mississauga	Yes	Yes
475	Alder - European	Alnus glutinosa	5	4	4			8	2	40	Good	TK3, RT, DW	2.4	City of Mississauga	Yes	Yes
476	Alder - European	Alnus glutinosa	9	7				11	3	15	Good	TK2, SF, SL, DE, RT	2.5	City of Mississauga	Yes	Yes
477	Alder - European	Alnus glutinosa	8					8	3	30	Fair	DW, DE, SL	2.5	City of Mississauga	Yes	Yes
478	Alder - European	Alnus glutinosa	6	6	5	5		11	5	25	Good	DE, DW, TD, RT, WNC	3.5	City of Mississauga	Yes	Yes
479	Maple - Freeman	Acer x freemanii	16					16	4	5	Good	FK@2M, FK@5M, 1SD, SL, RP	3	City of Mississauga	Yes	Yes
480	Maple - Manitoba	Acer negundo	5	4	3	3		8	4	20	Good	TK4, RT, LS, DW	3	City of Mississauga	Yes	Yes
481	Maple - Manitoba	Acer negundo	25	21				33	11	10	Good	TK2, IB, DW, ER, FK@4M, 1SD, DC, RP	6.5	City of Mississauga	Yes	Yes
482	Alder - European	Alnus glutinosa	13	7	6	3		16	5	30	Good	DE, TK4, RT, DW	3.5	City of Mississauga	Yes	Yes
483	Maple - Manitoba	Acer negundo	3	3	5			7	3	20	Good	TK3, RT, LS, CT	2.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
415	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	269.57	Yes
416	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
417	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
418	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	299.42	Yes
419	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	160.87	Yes
420	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	244.31	Yes
421	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	189.34	Yes
422	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	232.05	Yes
423	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	333.86	Yes
424	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
425	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	269.57	Yes
426	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
427	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	189.34	Yes
428	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	269.57	Yes
429	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	208.92	Yes
430	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
431	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	189.34	Yes
432	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	244.31	Yes
433	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	208.92	Yes
434	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	269.57	Yes
435	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	208.92	Yes
436	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	208.92	Yes
437	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	223.65	Yes
438	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	232.05	Yes
439	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	1	1	269.57	Yes
440	Maple - Norway	Acer platanoides	Protect	Alternative 2 Study Area	NA	NA	2197.89	No
441	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	470.55	No
442	Maple - Manitoba	Acer negundo	Protect	Alternative 2 Study Area	NA	NA	136.34	No
443	Walnut - Black	Juglans nigra	Protect	Outside Alternative 2 Study Area	NA	NA	589.23	No
444	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 2 Study Area	NA	NA	1981.14	No
445	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	290.32	Yes
446	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	337.26	Yes
447	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	1	1	327.87	Yes
448	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	505.95	Yes
449	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	190.87	Yes
450	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	627.11	Yes
451	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	3	376.13	Yes
452	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	239.34	Yes
453	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	2	10	1280.22	Yes
454	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	337.26	Yes
455	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	290.32	Yes
456	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	185.49	Yes
457	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	365.37	Yes
458	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	2	3	821.03	Yes
459	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	505.95	Yes
460	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	790.70	Yes
461	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	267.21	Yes
462	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	429.68	Yes
463	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	790.70	Yes
464	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	627.11	Yes
465	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	365.13	Yes
466	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	136.34	Yes
467	Maple - Silver	Acer saccharinum	Remove	Alternative 2 Impact Area	1	1	327.87	Yes
468	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	333.00	Yes
469	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	261.38	Yes
470	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	225.00	Yes
471	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	2	3	1058.97	Yes
472	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	395.94	Yes
473	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	123.01	Yes
474	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	2	3	909.73	Yes
475	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	312.33	Yes
476	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	395.94	Yes
477	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	242.05	Yes
478	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	395.94	Yes
479	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	2	3	841.33	Yes
480	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	170.27	Yes
481	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1412.33	Yes
482	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	2	3	593.97	Yes
483	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	152.10	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
484	Alder - European	Alnus glutinosa	7					7	2	10	Fair	SL, 1SD, DE	2.4	City of Mississauga	Yes	Yes
485	Alder - European	Alnus glutinosa	7	7	3	4		11	5	20	Good	TK4, RT, DE, DW, SL	3.5	City of Mississauga	Yes	Yes
486	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
487	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
488	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
489	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
490	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
491	Alder - European	Alnus glutinosa	7	6	5	5	3	12	6	20	Good	TK7, RT, BSD, DE, DW	4	City of Mississauga	Yes	Yes
492	Maple - Freeman	Acer x freemanii	6	2				6	3	25	Fair	TK2, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
493	Alder - European	Alnus glutinosa	6	4	6			9	5	5	Good	TK3, RT, DE, DW	3.5	City of Mississauga	Yes	Yes
494	Maple - Freeman	Acer x freemanii	8					8	2	5	Fair	SL, SF, ML, RP	2.4	City of Mississauga	Yes	Yes
495	Maple - Manitoba	Acer negundo	9					9	5	10	Fair	BOB, CT, SB, ST, FK@4M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
496	Maple - Manitoba	Acer negundo	21	17				27	9	25	Good	TK2, IB, PF, WNC, PP, SC, MB, RP	5.5	City of Mississauga	Yes	Yes
497	Ash - Green	Fraxinus pennsylvanica	5	4				6	0	100	Dead	TK2, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
498	Ash - Green	Fraxinus pennsylvanica	14					14	4	50	Poor	EAB, AD, SF, CD, RM	3	City of Mississauga	Yes	Yes
499	Apple sp.	Malus sp.	12	9				15	3	25	Fair	TK2, BOB, SC, DW, MB, FS, RP	2.5	City of Mississauga	Yes	Yes
500	Maple - Manitoba	Acer negundo	3					3	2	35	Fair	BOB, LN (M), LS, CT	2.4	City of Mississauga	Yes	Yes
501	Maple - Manitoba	Acer negundo	15					15	5	20	Fair	FS, SB, LNM, UC	3.5	City of Mississauga	Yes	Yes
502	Ash - White	Fraxinus americana	14	12	12			22	5	100	Dead	PB, FS, DW, BSD	0	City of Mississauga	Yes	Yes
503	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
504	Ash - White	Fraxinus americana	14	13				19	6	100	Dead	PB, DW, VC, ER	0	City of Mississauga	Yes	Yes
505	Hawthorn sp.	Crataegus sp.	7					7	3	30	Fair	DW, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
506	Hawthorn sp.	Crataegus sp.	16	8	7	6	6	21	6	20	Fair	TK5, FS, FK@2M, RP, RT	4	City of Mississauga	Yes	Yes
507	Apple sp.	Malus sp.	22	16	16			32	5	40	Fair	TK3, LNM, 1SD, UC, ER, DW	4.8	City of Mississauga	Yes	Yes
508	Maple - Manitoba	Acer negundo	30					30	8	15	Fair	LN (H), MOB, FS, ST, RP	5	City of Mississauga	Yes	Yes
509	Ash - White	Fraxinus americana	26					26	5	100	Dead	ER, BSD, CT, DW, PB	0	City of Mississauga	Yes	Yes
510	Apple sp.	Malus sp.	14					14	5	25	Fair	BOB, LN (M), SB, CT, SC, DW, RP	3.5	City of Mississauga	Yes	Yes
511	Ash - Green	Fraxinus pennsylvanica	23					23	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
512	Hawthorn sp.	Crataegus sp.	15	11	10	7	7	23	4	25	Fair	TK5, FS, CT, DW, RP, RT	3.6	City of Mississauga	Yes	Yes
513	Hawthorn sp.	Crataegus sp.	18	7	8	13	6	25	7	30	Fair	CT, TK4, UC, MB, DW, LS	4.5	City of Mississauga	Yes	Yes
514	Ash - White	Fraxinus americana	14	8				16	6	80	Poor	CD, PB, DW, LNM, TK2, LS	4	City of Mississauga	Yes	Yes
515	Serviceberry sp.	Amelanchier sp.	11	9	5	4		16	4	10	Good	TK4, FS, 1SD, UC, LS, RP	3	City of Mississauga	Yes	Yes
516	Ash - Black	Fraxinus nigra	13					13	0	100	Dead	BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
517	Ash - Green	Fraxinus pennsylvanica	20					20	8	75	Poor	BSD, TD, PB, DW, ER	5	City of Mississauga	Yes	Yes
518	Maple - Manitoba	Acer negundo	6	5				8	3	15	Fair	TK2, BOB, SL, RT	2.5	City of Mississauga	Yes	Yes
519	Ash - Black	Fraxinus nigra	6					6	1	100	Dead	SB, DW, PB, ER	0	City of Mississauga	Yes	Yes
520	Hawthorn sp.	Crataegus sp.	13	12	9	8	6	22	5	20	Fair	TK5, FS, CT, LS, RP	3.6	City of Mississauga	Yes	Yes
521	Hawthorn sp.	Crataegus sp.	5	3				6	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
522	Cherry - Sweet	Prunus avium	6					6	3	25	Fair	LN (L), 1SD, CT, LS	2.5	City of Mississauga	Yes	Yes
523	Hawthorn sp.	Crataegus sp.	22	21	21	14	6	40	9	35	Fair	TK8, MB, FS, IB, RP, DW, ER	5.5	City of Mississauga	Yes	Yes
524	Maple - Norway	Acer platanoides	9					9	4	15	Fair	SL, FS, RT, LS, UC	3	City of Mississauga	Yes	Yes
525	Maple - Norway	Acer platanoides	14	13	12	9	7	25	6	5	Good	TK5, MOB, FS, 1SD, RP	4	City of Mississauga	Yes	Yes
526	Maple - Norway	Acer platanoides	12	9	8	7	4	19	5	15	Good	TK5, BOB, ER, FS, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
527	Hawthorn sp.	Crataegus sp.	16	7				17	5	40	Fair	TK2, DW, ER, FK2@2M, PB, RP	3.5	City of Mississauga	Yes	Yes
528	Maple - Norway	Acer platanoides	11					11	4	10	Good	TOB, 1SD, FK@3M, UC, RP	3	City of Mississauga	Yes	Yes
529	Maple - Norway	Acer platanoides	14					14	5	30	Fair	DW, ER, FS, SL,	3.5	City of Mississauga	Yes	Yes
530	Maple - Norway	Acer platanoides	11	11	9	8	6	21	7	10	Good	TK6, BOB, FS, DW, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
531	Maple - Norway	Acer platanoides	22					22	6	10	Good	LN (L), 1SD, FK@3M, SN2	4	City of Mississauga	Yes	Yes
532	Maple - Manitoba	Acer negundo	26					26	0	100	Dead	LN (H), CT, PB, DW, RM	0	City of Mississauga	Yes	Yes
533	Hawthorn sp.	Crataegus sp.	8	7				11	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
534	Hawthorn sp.	Crataegus sp.	17	13	10			24	5	15	Good	TK3, PP, ST, SC, RP	3.6	City of Mississauga	Yes	Yes
535	Hawthorn sp.	Crataegus sp.	19	17	16	16	9	35	7	10	Good	TK5, FS, ML, ST, RP	4.8	City of Mississauga	Yes	Yes
536	Hawthorn sp.	Crataegus sp.	14	13	11	10	9	26	4	35	Fair	TK6, CT, 1SD, UC, LS, RP	3.6	City of Mississauga (Park)	Yes	Yes
537	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, ML, RP	2.4	City of Mississauga	Yes	Yes
538	Maple - Manitoba	Acer negundo	33					33	11	10	Good	SB, TW, WNC, LN (L), FK@3M, DC, RP	6.5	City of Mississauga (Park)	Yes	Yes
539	Maple - Norway	Acer platanoides	5					5	2	15	Fair	SP, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
540	Hawthorn sp.	Crataegus sp.	10					10	2	40	Poor	MB, LS, CD	2.4	City of Mississauga	Yes	Yes
541	Apple sp.	Malus sp.	34	31	31	28	14	64	8	20	Fair	TK7, FS, SB, ST, SC, PF, DW, RP	8.4	City of Mississauga	Yes	Yes
542	Hawthorn sp.	Crataegus sp.	19	12				22	5	15	Good	TK2, FS, SN, 1SD, RP	3.6	City of Mississauga	Yes	Yes
543	Ash - White	Fraxinus americana	44	35				56	0	100	Dead	TK2, SB, PF, BC, DW, RM	0	City of Mississauga	Yes	Yes
544	Hawthorn sp.	Crataegus sp.	13	12	10	8		22	0	100	Dead	TK4, PF, BC, RM	0	City of Mississauga	Yes	Yes
545	Maple - Manitoba	Acer negundo	3					3	1	15	Fair	LN(M), LS, 1SD, SP	2.4	City of Mississauga	Yes	Yes
546	Apple sp.	Malus sp.	29	18				34	4	50	Poor	TK2, FS, ST, SC, 1SD, PF, CT, VC, RP	4.8	City of Mississauga	Yes	Yes
547	Maple - Manitoba	Acer negundo	27	24				36	6	10	Good	TK2, BOB, LN (L), PF, FS, RP	4.8	City of Mississauga	Yes	Yes
548	Maple - Manitoba	Acer negundo	24	23				33	8	30	Fair	TK2, LN (M), BSD, WNC, VC, 1SD, CT, UC, RP	5	City of Mississauga	Yes	Yes
549	Maple - Manitoba	Acer negundo	31	16				35	11	30	Fair	LN (H), PF, LG, FK@2M, SB, CT, VC, FS, SC, RP	6.5	City of Mississauga	Yes	Yes
550	Hawthorn sp.	Crataegus sp.	20	15	14			29	5	25	Fair	TK2, MOB, FS, CT, DW, 1SD, RP	3.6	City of Mississauga	Yes	Yes
551	Hawthorn sp.	Crataegus sp.	12	7				14	5	10	Fair	TK2, LN (L), LS, FK@2M	3.5	City of Mississauga	Yes	Yes
552	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN (L), EAB, PB, DW, SB, BOB, RM	0	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
484	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	225.00	Yes
485	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	395.94	Yes
486	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	2	3	909.73	Yes
487	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	365.13	Yes
488	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	2	3	909.73	Yes
489	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	365.13	Yes
490	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	365.13	Yes
491	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	3	429.68	Yes
492	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	1	1	298.62	Yes
493	Alder - European	Alnus glutinosa	Remove	Alternative 2 Impact Area	1	1	337.26	Yes
494	Maple - Freeman	Acer x freemanii	Remove	Alternative 2 Impact Area	1	1	343.60	Yes
495	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	147.93	Yes
496	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	976.10	Yes
497	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	32.88	Yes
498	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	3	266.89	Yes
499	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	1	3	492.27	Yes
500	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	80.31	Yes
501	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	283.16	Yes
502	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	164.52	Yes
503	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	131.55	Yes
504	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	129.22	Yes
505	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	1	1	237.30	Yes
506	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	837.94	Yes
507	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	3	15	1617.81	Yes
508	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	2	10	917.07	Yes
509	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	219.62	Yes
510	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	1	3	451.42	Yes
511	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	166.51	Yes
512	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	972.78	Yes
513	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1119.87	Yes
514	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	2	3	346.79	Yes
515	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 2 Impact Area	2	3	790.51	Yes
516	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	56.89	Yes
517	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	2	3	460.42	Yes
518	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	131.96	Yes
519	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	26.68	Yes
520	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	903.82	Yes
521	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	1	1	217.38	Yes
522	Cherry - Sweet	Prunus avium	Remove	Alternative 2 Impact Area	1	1	213.99	Yes
523	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	15	2613.81	Yes
524	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	391.32	Yes
525	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1684.55	Yes
526	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	3	1112.08	Yes
527	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	3	605.04	Yes
528	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	3	591.66	Yes
529	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	3	584.58	Yes
530	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1285.56	Yes
531	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1378.80	Yes
532	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	113.98	Yes
533	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	56.07	Yes
534	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1348.12	Yes
535	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	15	2631.25	Yes
536	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1198.02	Yes
537	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	270.32	Yes
538	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1412.33	Yes
539	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	297.21	Yes
540	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	1	178.07	Yes
541	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	5	40	5945.27	Yes
542	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1166.23	Yes
543	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	925.63	Yes
544	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	145.78	Yes
545	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	80.31	Yes
546	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	3	15	1018.25	Yes
547	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1663.17	Yes
548	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1094.56	Yes
549	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	3	15	1222.28	Yes
550	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1450.84	Yes
551	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	1	3	462.54	Yes
552	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	131.55	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
553	Hawthorn sp.	Crataegus sp.	8	6	4	4		11	4	30	Fair	TK4, LN (L), BOB, ST, RT	3	City of Mississauga	Yes	Yes
554	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN(L), EAB, SB, DW, RM	0	City of Mississauga	Yes	Yes
555	Maple - Manitoba	Acer negundo	7	6	4	4		11	5	15	Fair	TK4, BOB, LS, SL, RT	3.5	City of Mississauga	Yes	Yes
556	Ash - Green	Fraxinus pennsylvanica	30					30	0	100	Dead	RPM, LG, EAB, DW, RM	0	City of Mississauga	Yes	Yes
557	Hawthorn sp.	Crataegus sp.	20	19				28	4	35	Fair	TK2, MOB, PF, DW, SL, RP	3.6	City of Mississauga	Yes	Yes
558	Hawthorn sp.	Crataegus sp.	18	8	7			21	4	20	Fair	TK3, DW, CT, RP	3.6	City of Mississauga	Yes	Yes
559	Maple - Norway	Acer platanoides	6					6	3	10	Fair	FS, SP, LS	2.5	City of Mississauga	Yes	Yes
560	Maple - Norway	Acer platanoides	5	3				6	2	10	Fair	TK2, TOB, SL, LS	2.4	City of Mississauga	Yes	Yes
561	Hawthorn sp.	Crataegus sp.	21	16	13	11	6	32	6	20	Fair	TK5, FS, CT, 1SD, LN (L), RP, RT	4.8	City of Mississauga	Yes	Yes
562	Maple - Norway	Acer platanoides	28					28	7	5	Good	DC, SF, SN	4.5	City of Mississauga	Yes	Yes
563	Hawthorn sp.	Crataegus sp.	17	12	9			23	6	15	Fair	TK3, CT, SN, DW, RP	4	City of Mississauga	Yes	Yes
564	Apple sp.	Malus sp.	28	13				31	6	30	Fair	TK2, PF, DW, LN (M), RP	4.8	City of Mississauga	Yes	Yes
565	Maple - Norway	Acer platanoides	5					5	1	10	Fair	MOB, SP, LS	2.4	City of Mississauga	Yes	Yes
566	Hawthorn sp.	Crataegus sp.	19	17	16			30	5	25	Fair	TK3, TW, WNC, DE, FS, CT, RP	3.6	City of Mississauga	Yes	Yes
567	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
568	Maple - Norway	Acer platanoides	7					7	3	10	Fair	CT, SL, LS	2.5	City of Mississauga	Yes	Yes
569	Hawthorn sp.	Crataegus sp.	20	8				22	2	30	Poor	TK2, CT, LN (H), ST, SC	3.6	City of Mississauga	Yes	Yes
570	Maple - Manitoba	Acer negundo	9					9	2	10	Fair	ER, SL, SF	2.4	City of Mississauga	Yes	Yes
571	Hawthorn sp.	Crataegus sp.	20	19	19	18	13	40	9	35	Fair	TK7, FK@2M, TOB, DW, FS, CD, RP	5.5	City of Mississauga	Yes	Yes
572	Hawthorn sp.	Crataegus sp.	24	20	19	19	14	44	7	20	Fair	TK5, MOB, LN (L), 1SD, RP	6	City of Mississauga	Yes	Yes
573	Maple - Norway	Acer platanoides	7	3				8	4	10	Fair	TK2, MOB, SL, LS, RT	3	City of Mississauga	Yes	Yes
574	Maple - Norway	Acer platanoides	8	5				9	3	10	Fair	TK2, SL, SN, RT	2.5	City of Mississauga	Yes	Yes
575	Maple - Norway	Acer platanoides	5	5	4			8	3	10	Fair	TK3, TOB, SL, RT	2.5	City of Mississauga	Yes	Yes
576	Hawthorn sp.	Crataegus sp.	16	14				21	9	10	Good	TK2, GTF, FS, SC, RP	5.5	City of Mississauga (Park)	Yes	Yes
577	Hawthorn sp.	Crataegus sp.	16	15	10	8		25	8	15	Good	TK4, TOB, FS, RP	5	City of Mississauga (Park)	Yes	Yes
578	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
579	Hawthorn sp.	Crataegus sp.	21	13	10	10	8	30	10	35	Fair	TK, MOB, VC, FS, CD, DW, RP	6	City of Mississauga	Yes	Yes
580	Hawthorn sp.	Crataegus sp.	13	12	11	10		23	5	30	Fair	TK4, LN (H), DW, FS, RP	3.6	City of Mississauga	Yes	Yes
581	Maple - Manitoba	Acer negundo	5	5	5	5	4	11	5	10	Fair	TK6, SP, SL, RT	3.5	City of Mississauga	Yes	Yes
582	Maple - Manitoba	Acer negundo	8	6	5	4		12	5	10	Fair	TK4, LN (L), BOB, RT	3.5	City of Mississauga	Yes	Yes
583	Ash - Green	Fraxinus pennsylvanica	12					12	0	100	Dead	RPM, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
584	Maple - Norway	Acer platanoides	4					4	1	10	Good	SP, SL	2.4	City of Mississauga	Yes	Yes
585	Hawthorn sp.	Crataegus sp.	22	17				28	7	10	Fair	TK2, LN (L), FK@3M, FS, 1SD, RP	4.5	City of Mississauga	Yes	Yes
586	Ash - Green	Fraxinus pennsylvanica	3					3	1	10	Fair	SP, BOB	2.4	City of Mississauga	Yes	Yes
587	Maple - Manitoba	Acer negundo	3	3				4	2	5	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
588	Ash - Green	Fraxinus pennsylvanica	14	10				17	0	100	Dead	TK2, LN (H), RPM, EAB, DW, RM	0	City of Mississauga	Yes	Yes
589	Maple - Manitoba	Acer negundo	4					4	2	10	Fair	SL, SML, RP	2.4	City of Mississauga	Yes	Yes
590	Hawthorn sp.	Crataegus sp.	22					22	6	15	Good	FK@3M, LN (L), CT, SC, RP	4	City of Mississauga	Yes	Yes
591	Maple - Manitoba	Acer negundo	3					3	1	10	Fair	SP	2.4	City of Mississauga	Yes	Yes
592	Maple - Norway	Acer platanoides	3	3				4	2	0	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
593	Hawthorn sp.	Crataegus sp.	27	25	23	21	20	52	10	30	Fair	TK6, TT, CT, DW, SC, FS, RP	7.2	City of Mississauga	Yes	Yes
594	Hawthorn sp.	Crataegus sp.	31	28				42	10	15	Good	TK2, TOB, CV, CT, SN, DW, RP	6	City of Mississauga (Park)	Yes	Yes
595	Maple - Norway	Acer platanoides	3	3	3	3		6	4	10	Fair	TK4, SP, SL, RT	3	City of Mississauga	Yes	Yes
596	Maple - Norway	Acer platanoides	4					4	2	10	Fair	TOB, SL, SP, LS	2.4	City of Mississauga	Yes	Yes
597	Hawthorn sp.	Crataegus sp.	38	32	24	23	23	64	14	15	Fair	TK6, LN (H), PF, LG, FK@3M, CT, TT, CV, GTF, ETB, SC, SN, DW, RP	8.4	City of Mississauga	Yes	Yes
598	Maple - Norway	Acer platanoides	21	14				25	7	15	Good	TK2, ER, MOB, FK@3M, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
599	Maple - Norway	Acer platanoides	9					9	5	10	Fair	LN (L), LS, 1SD, ML, RP	3.5	City of Mississauga	Yes	Yes
600	Hawthorn sp.	Crataegus sp.	10					10	3	15	Fair	LN (M), CT, SL	2.5	City of Mississauga	Yes	Yes
601	Apple sp.	Malus sp.	28	27				39	7	25	Fair	TK2, FS, SB, ST, SC, LN (M), 1SD, PF, RP	4.8	City of Mississauga	Yes	Yes
602	Hawthorn sp.	Crataegus sp.	12	11	9			19	3	50	Poor	TK3, LN (L), DW, RP	2.5	City of Mississauga	Yes	Yes
603	Maple - Norway	Acer platanoides	4					4	2	10	Fair	CT, SP, LS	2.4	City of Mississauga	Yes	Yes
604	Hawthorn sp.	Crataegus sp.	11	6				13	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
605	Hawthorn sp.	Crataegus sp.	17	16	9			25	5	15	Good	TK3, BOB, TT, DW, RP	3.6	City of Mississauga	Yes	Yes
606	Hawthorn sp.	Crataegus sp.	15	9				17	4	10	Fair	TK2, VC, LN (M), SC, RP	3	City of Mississauga	Yes	Yes
607	Hawthorn sp.	Crataegus sp.	10					10	1	70	Poor	CT, BOB, DW, RM	2.4	City of Mississauga	Yes	Yes
608	Hawthorn sp.	Crataegus sp.	22	16	15			31	11	15	Good	TK3, FS, RH, FK@2M, LN (L), DW,,RP	6.5	City of Mississauga	Yes	Yes
609	Apple sp.	Malus sp.	10					10	0	100	Dead	BOB, DW, RM	0	City of Mississauga	Yes	Yes
610	Apple sp.	Malus sp.	17	13	10	8	6	26	0	100	Dead	TK8, DW, BOB, RM	0	City of Mississauga	Yes	Yes
611	Maple - Norway	Acer platanoides	5					5	2	15	Fair	BOB, CT, ML, LS	2.4	City of Mississauga	Yes	Yes
612	Maple - Norway	Acer platanoides	3					3	2	10	Fair	SP, BOB, LS	2.4	City of Mississauga	Yes	Yes
613	Maple - Norway	Acer platanoides	3	2				4	1	0	Fair	TK2, CT, LS, RP	2.4	City of Mississauga	Yes	Yes
614	Ash - Green	Fraxinus pennsylvanica	14					14	0	100	Dead	RPM, LN (M), EAB, DW, RM	0	City of Mississauga	Yes	Yes
615	Ash - Green	Fraxinus pennsylvanica	3					3	1	15	Fair	BOB, SP, SL	2.4	City of Mississauga	Yes	Yes
616	Hawthorn sp.	Crataegus sp.	21	20	20	9	8	37	9	20	Fair	TK7, BOB, GTF, ER, SN, RP	5.5	City of Mississauga	Yes	Yes
617	Hawthorn sp.	Crataegus sp.	16	14	14	12	9	30	5	45	Poor	TK5, BOB, GTF, PB, DW, PF, RP	3.6	City of Mississauga	Yes	Yes
618	Apple sp.	Malus sp.	51					51	6	20	Fair	TOB, GTF, PP, PC, SC, RP	7.2	City of Mississauga	Yes	Yes
619	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
620	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
621	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
553	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	1	3	347.62	Yes
554	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	131.55	Yes
555	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	185.49	Yes
556	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	267.07	Yes
557	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1363.50	Yes
558	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	837.94	Yes
559	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	315.69	Yes
560	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	315.69	Yes
561	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	15	1731.24	Yes
562	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	2029.33	Yes
563	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	972.78	Yes
564	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	3	15	1529.06	Yes
565	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	297.21	Yes
566	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1541.24	Yes
567	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	86.88	Yes
568	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	337.54	Yes
569	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	2	10	510.22	Yes
570	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	1	147.93	Yes
571	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	15	2613.81	Yes
572	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	20	3128.65	Yes
573	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	362.75	Yes
574	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	391.32	Yes
575	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	362.75	Yes
576	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1081.21	Yes
577	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1445.00	Yes
578	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	270.32	Yes
579	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1541.24	Yes
580	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	972.78	Yes
581	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	185.49	Yes
582	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	1	3	207.09	Yes
583	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	62.16	Yes
584	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	363.98	Yes
585	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1363.50	Yes
586	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 2 Impact Area	NA	1	158.51	Yes
587	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	86.88	Yes
588	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	101.46	Yes
589	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	86.88	Yes
590	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1166.23	Yes
591	Maple - Manitoba	Acer negundo	Remove	Alternative 2 Impact Area	NA	1	80.31	Yes
592	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	282.08	Yes
593	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	4	30	4305.41	Yes
594	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	20	3696.90	Yes
595	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	315.69	Yes
596	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	282.08	Yes
597	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	5	40	6438.30	Yes
598	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	2	10	1684.55	Yes
599	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	1	1	391.32	Yes
600	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	1	1	315.44	Yes
601	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	3	15	2317.92	Yes
602	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	2	3	403.83	Yes
603	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	282.08	Yes
604	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	67.93	Yes
605	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	10	1445.00	Yes
606	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	2	3	605.04	Yes
607	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	1	1	178.07	Yes
608	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	15	2109.30	Yes
609	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	51.00	Yes
610	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	181.87	Yes
611	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	297.21	Yes
612	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	270.32	Yes
613	Maple - Norway	Acer platanoides	Remove	Alternative 2 Impact Area	NA	1	282.08	Yes
614	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	NA	NA	76.25	Yes
615	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 2 Impact Area	NA	1	158.51	Yes
616	Hawthorn sp.	Crataegus sp.	Remove	Alternative 2 Impact Area	3	15	2259.86	Yes
617	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 2 Impact Area	2	10	870.05	Yes
618	Apple sp.	Malus sp.	Remove	Alternative 2 Impact Area	4	30	3839.29	Yes
619	Cherry - Sweet	Prunus avium	Protect	Alternative 2 Study Area	NA	NA	5694.63	No
620	Cherry - Sweet	Prunus avium	Protect	Alternative 2 Study Area	NA	NA	5694.63	No
621	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
622	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
623	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
624	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
625	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
626	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
627	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
628	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
629	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
630	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
631	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
632	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
633	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
634	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
635	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
636	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
637	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
638	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
639	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
640	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
641	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
642	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
643	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
644	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
645	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
646	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
647	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
648	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
649	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 2	Location Category - Alternative 2	Mississauga Compensation - Alternative 2	TRCA Compensation - Alternative 2	Tree Valuation (Trunk Formula) - $	Alternative 2 - Tree Value Needed (Y/N)
622	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
623	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
624	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
625	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
626	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
627	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
628	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	2	10	929.57	Yes
629	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
630	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
631	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
632	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
633	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
634	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
635	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	173.33	No
636	Cedar - Eastern-White	Thuja occidentalis	Protect - Injury	Alternative 2 Study Area	NA	NA	173.33	No
637	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Study Area	NA	1	173.33	No
638	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
639	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
640	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 2 Impact Area	NA	1	173.33	Yes
641	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	173.33	No
642	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	173.33	No
643	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
644	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
645	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 2 Study Area	NA	NA	173.33	No
646	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
647	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
648	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No
649	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 2 Study Area	NA	NA	173.33	No

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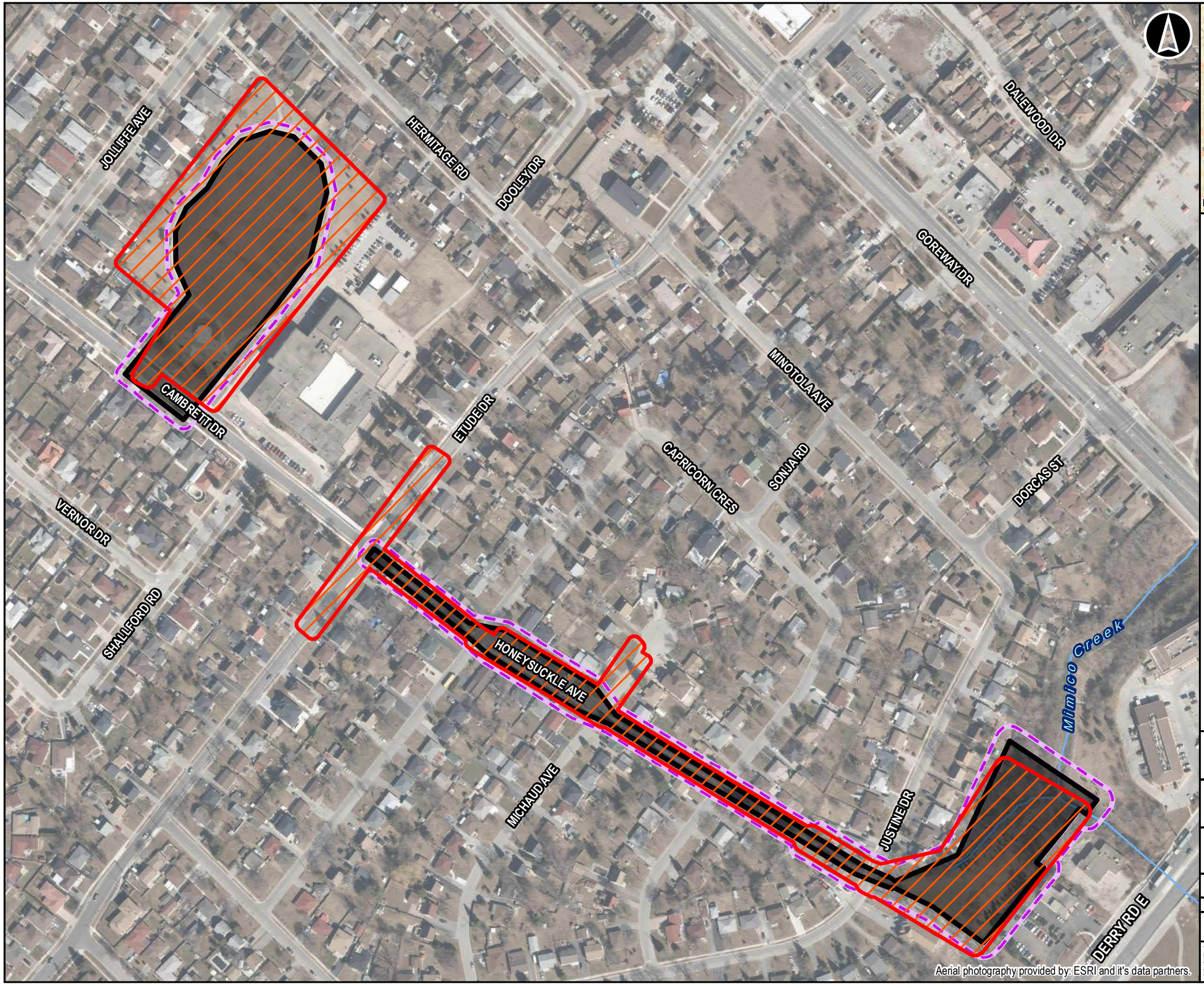
Appendix C2-C9

Alternative 2 Tree Inventory and Preservation Plan



Legend

- Preliminary Tree Inventory Study Area
- Alternative 2 Impact Area
- Alternative 2 Study Area
- Watercourse

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 20 40 80 120 160
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:2,500 * when printed 11"x17"	Data Sources: MECP, MMAH
P#:60620089	Rev:00	

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Map location: E:\PR\60620\26_MaltonFlood\Design\01_Reports\ArboristReport_2021\01MXD_60620089_TreeProtectionPlan_HighLevel_Alt2_R00.mxd
Date Saved: 1/15/2021 3:14:23 AM User Name: oriarx

Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

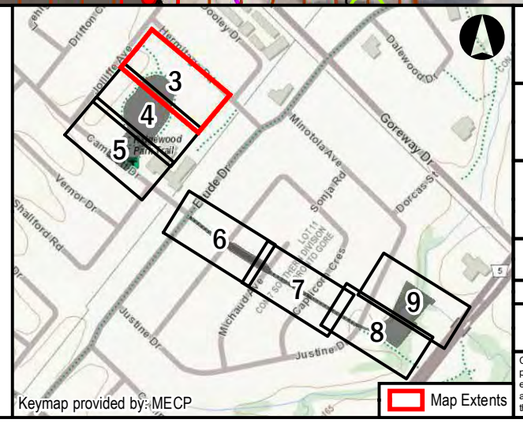
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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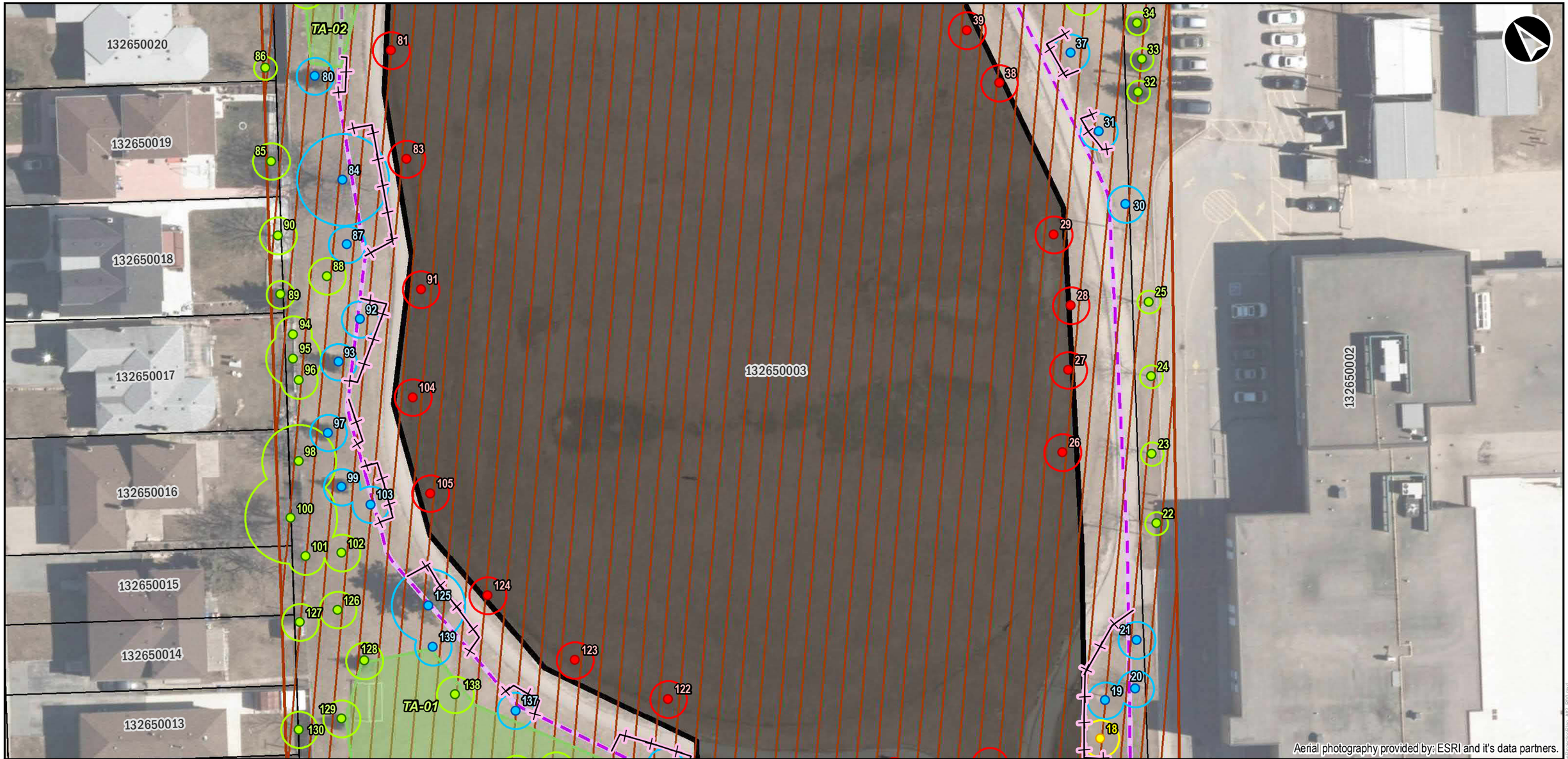


Aerial photography provided by: ESRI and it's data partners.

Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

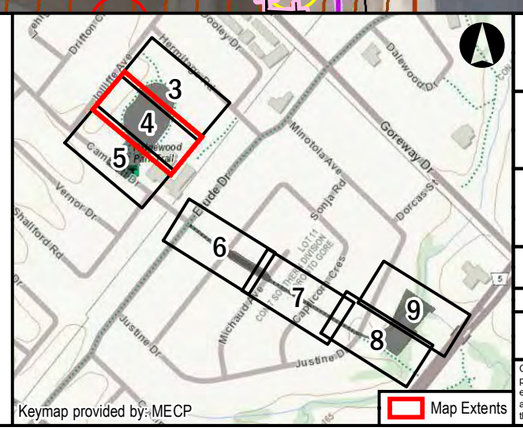
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Keymap provided by: MECP

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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File path: ...\60620089\Malton Flood Study\03_Reports\Report_Appendices\Report_Appendix_C\60620089_ReportAppendix_C03_TPPP.mxd
Date Saved: 1/15/2021 2:29:30 AM User Name: cnavs

Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

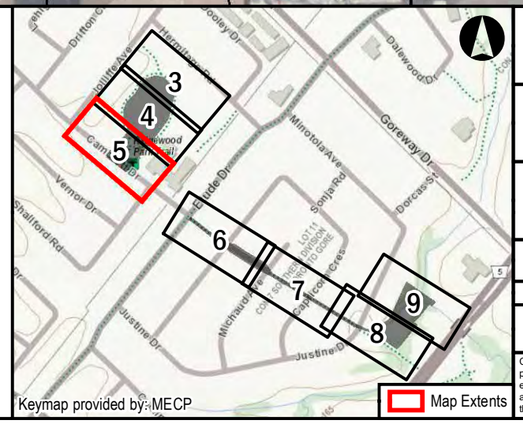
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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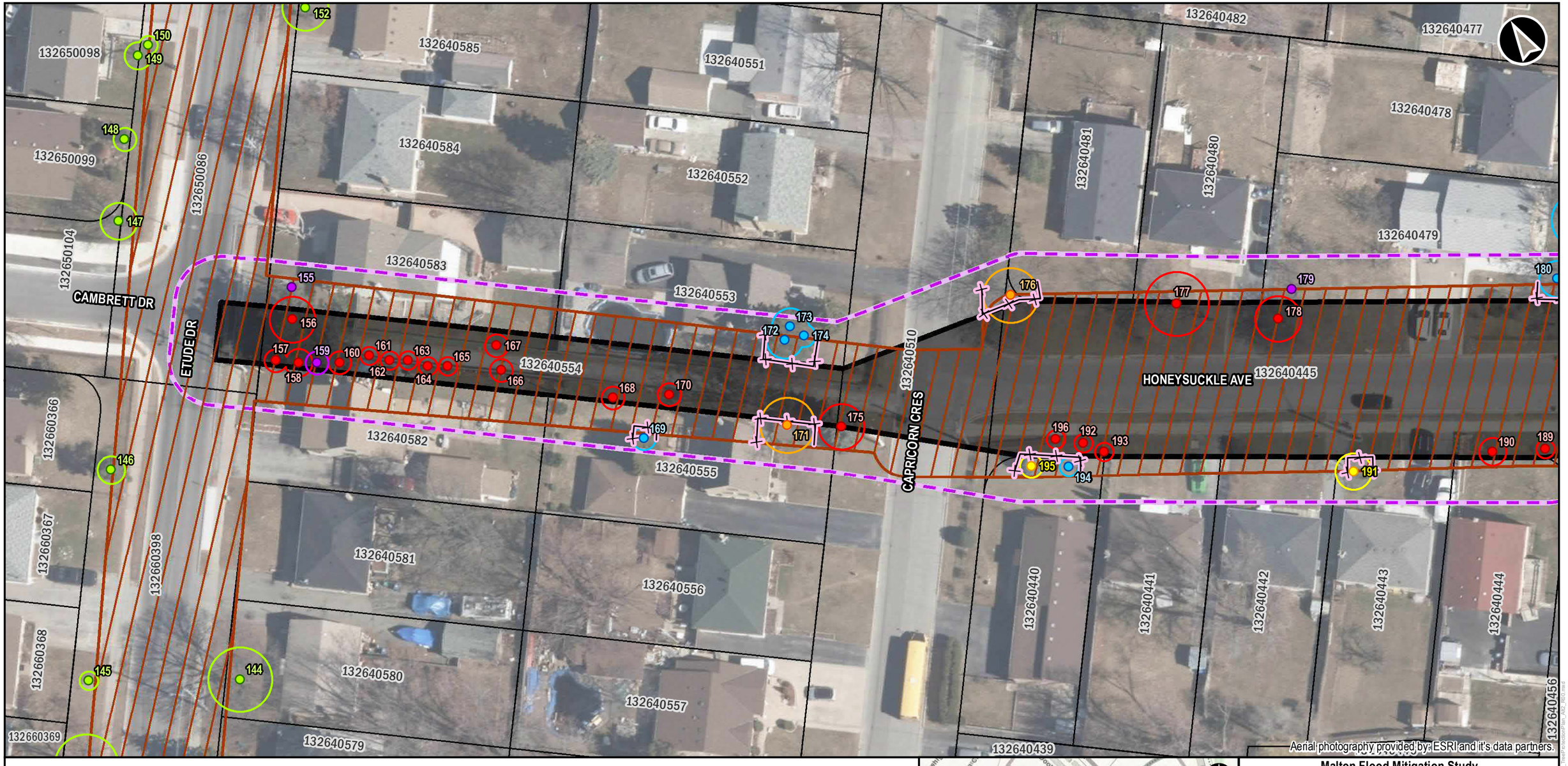
File Location: L:\Proj\60620089\Mapping\ArcGIS\Projects\Design\Alternative 2\Malton_Etude2Justine_Alt2_Design.mxd
Date Saved: 1/15/2021 2:29:30 AM User Name: crawsj



Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

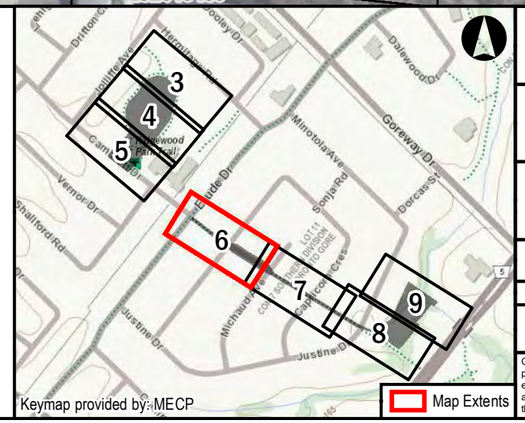
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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Map Location: E:\Projects\60620089 Malton Flood Design\01_Reports\Arcmap\Report_Figs\TRANS_Etude2Justine_Alt2.mxd
Date Saved: 1/15/2021 2:29:30 AM User Name: crews

Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

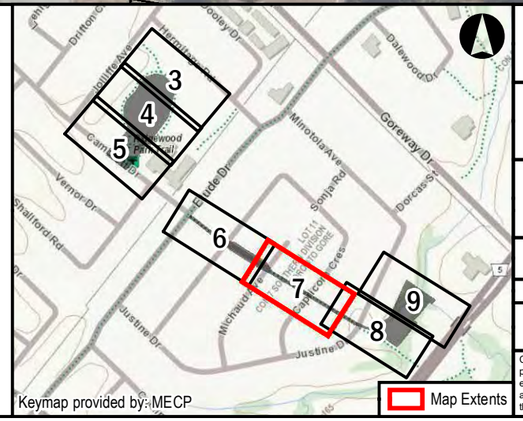
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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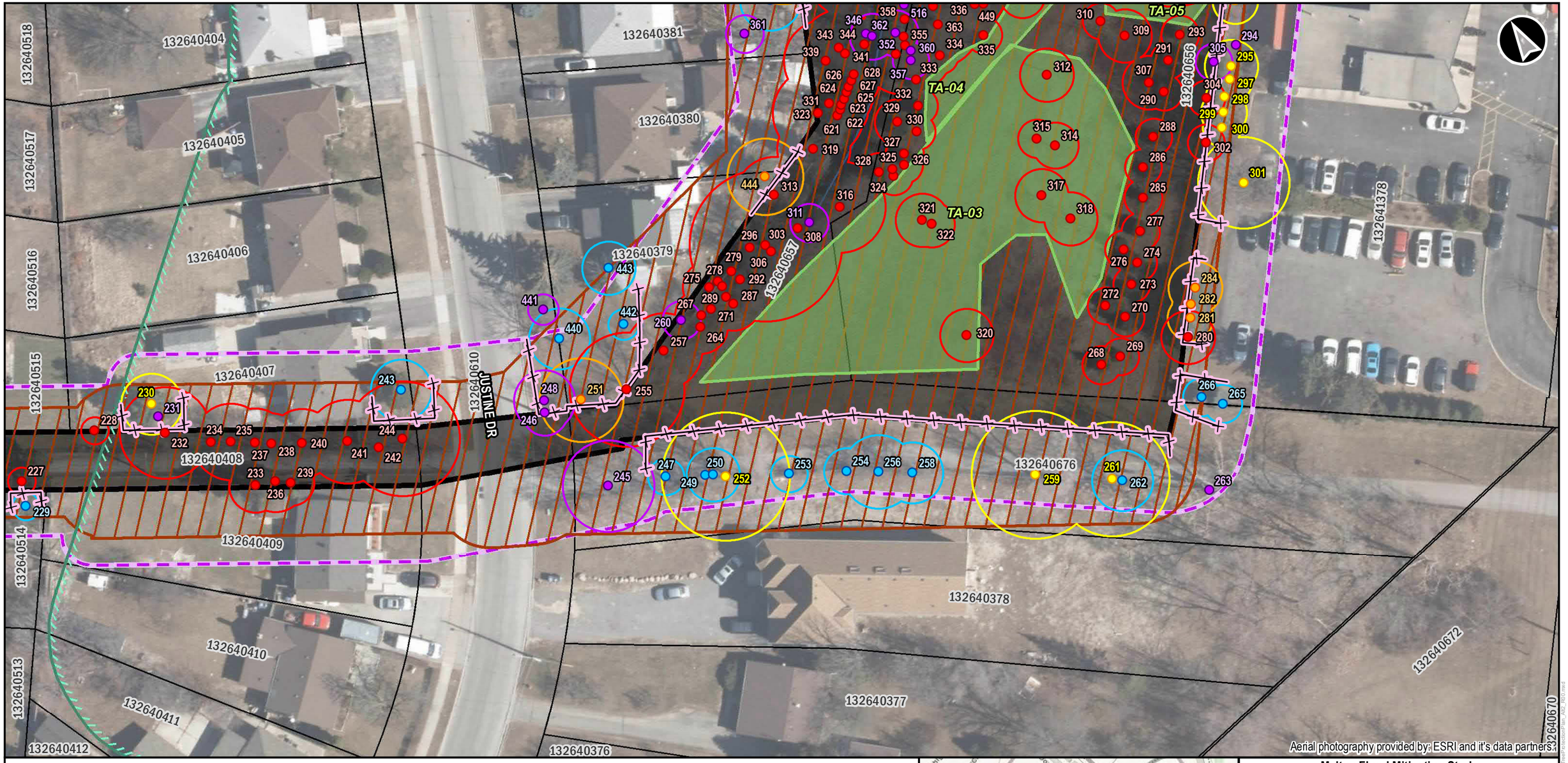
File Location: E:\Projects\60620089_Malton Flood Design\01_Report\Appendices\Report_Figures\TRMMS_Etude2Justine_Tree Protection_Alt2_Report.mxd
Date Saved: 1/15/2021 2:29:30 AM User Name: cmiers



Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

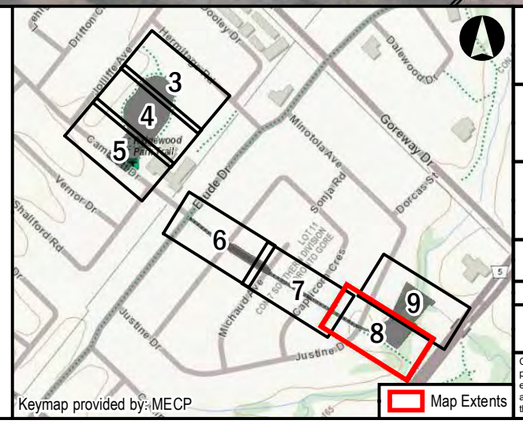
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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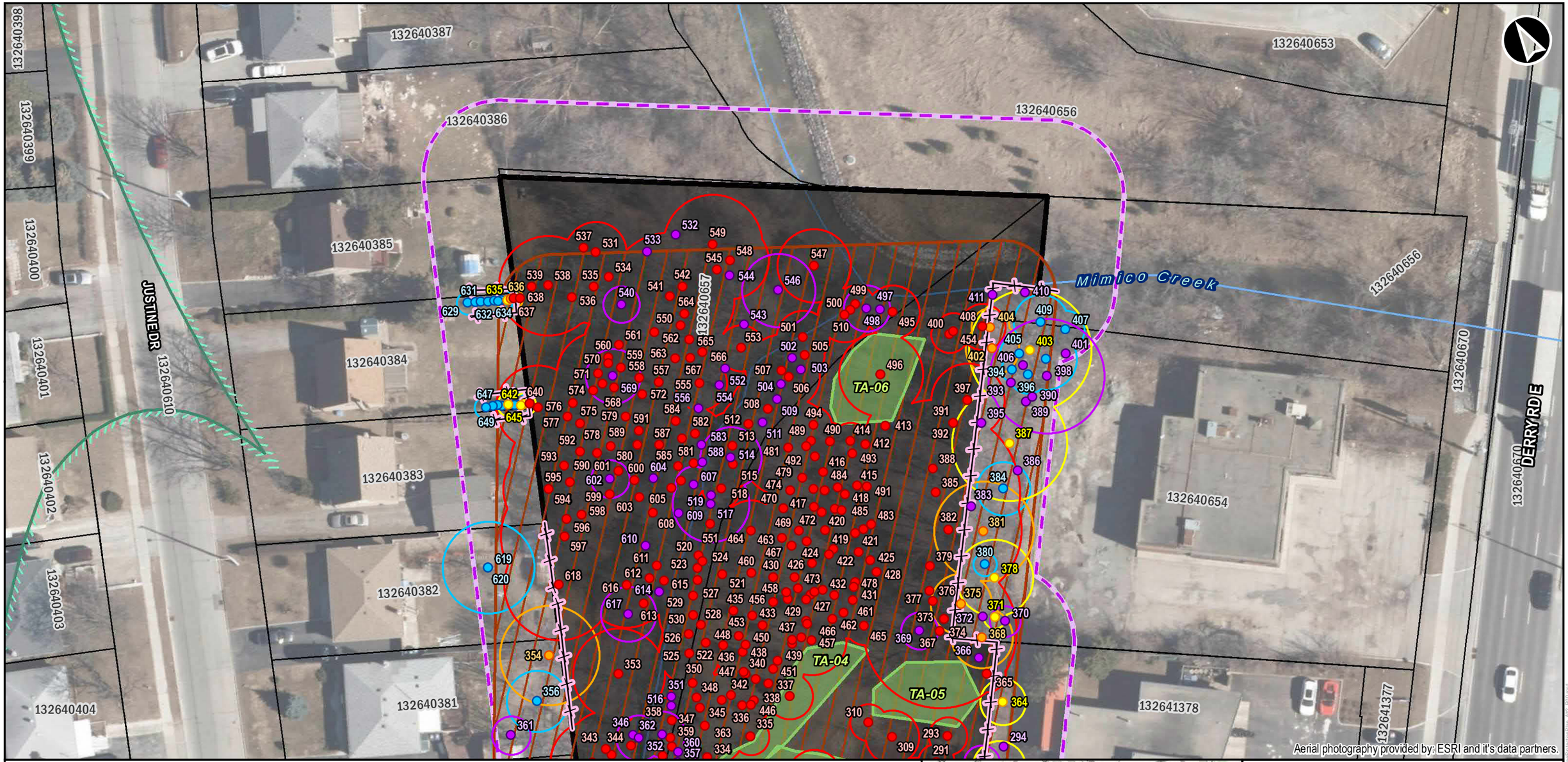


Legend

- Alternative 2 Study Area
- Alternative 2 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

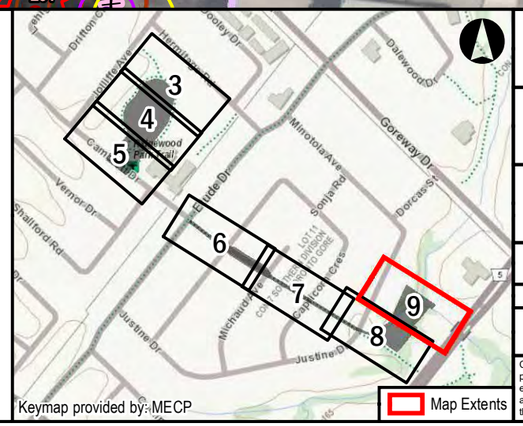
Recommended Action - Alternative 2

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Keymap provided by: MECP

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 2

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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File Location: C:\Projects\60620089_Malton Flood Study\03_Drawings\Report_Figures\Arcgis\Report_Figures_60620089.aprx
Date Saved: 1/15/2021 2:29:30 AM User Name: cnaws

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Appendix D1

Alternative 3 Tree Management Table

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
1	Honey-Locust	Gleditsia triacanthos	31					31	9	10	Good	ST, DW, FS, FC, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
2	Maple - Norway	Acer platanoides	13					13	4	0	Good	LT, DC, SF, RP	2.4	City of Mississauga (Park)	No	Yes
3	Maple - Norway	Acer platanoides	16					16	4	10	Good	LT, NST, ER, BSD, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
4	Maple - Norway	Acer platanoides	18					18	4	5	Good	ER, GR, PP, WC, DW, RP	2.4	City of Mississauga (Park)	No	Yes
5	Honey-Locust	Gleditsia triacanthos	17					17	5	5	Good	LT, ER, FS, RP	2.4	City of Mississauga (Park)	No	Yes
6	Maple - Silver	Acer saccharinum	25					25	9	0	Good	PTH, TW, WC, PF, FK@2M, RP	3.6	City of Mississauga (Park)	No	Yes
7	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	FK@2M, MB, FS, UW, RP	1.5	City of Mississauga (Road ROW)	No	No
8	Honey-Locust	Gleditsia triacanthos	15					15	7	5	Good	MB, PF, WNC, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
9	Maple - Silver	Acer saccharinum	62					62	11	15	Good	FK@2M, PP, WNC, MB, PB, ST, RP	8.4	City of Mississauga (Park)	No	Yes
10	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	MB, DW, FS, RP	2.4	City of Mississauga (Park)	No	Yes
11	Apple sp.	Malus sp.	25					25	6	20	Fair	LN (M), BSD, TW, WNC, ST, SC, 1SD, UC, PP, RP	3.6	City of Mississauga (Park)	No	Yes
12	Maple - Norway	Acer platanoides	10					10	2	15	Good	ER, DC, RP	2.4	City of Mississauga (Park)	No	Yes
13	Maple - Norway	Acer platanoides	10					10	3	20	Fair	BSD, MB, RP	2.4	City of Mississauga (Park)	No	Yes
14	Maple - Norway	Acer platanoides	14					14	4	10	Good	PTL, LN (L), TW, PF, WNC, ER, RP	2.4	City of Mississauga (Park)	No	Yes
15	Oak - Red	Quercus rubra	13					13	4	0	Good	ER, DC, SF, PF, RP	2.4	City of Mississauga (Park)	No	Yes
16	Serviceberry sp.	Amelanchier sp.	4	3	2	2	2	6	1	10	Fair	TK7, RP	2.4	City of Mississauga (Park)	No	Yes
17	Zelkova - Japanese	Zelkova serrata	4					4	1	10	Fair	FS, SL, ML, RP	2.4	City of Mississauga (Park)	No	Yes
18	Serviceberry sp.	Amelanchier sp.	2					2	1	20	Fair	PTL, RH	2.4	City of Mississauga (Park)	No	Yes
19	Oak - English	Quercus robur	12					12	4	0	Good	BSD, WNC, ER, PF, RH, RP, DC, SF	2.4	City of Mississauga (Park)	No	Yes
20	Maple - Norway	Acer platanoides	17					17	5	5	Good	ER, GR, NST, DC	2.4	City of Mississauga (Park)	No	Yes
21	Maple - Norway	Acer platanoides	15					15	4	10	Good	ER, GR, DW, RP	2.4	City of Mississauga (Park)	No	Yes
22	Honey-Locust	Gleditsia triacanthos	18					18	6	5	Good	PP, WC, FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
23	Honey-Locust	Gleditsia triacanthos	17					17	7	5	Good	ER, ETB, PP, WC, FS, DW, RP	1.5	Peel District School Board	No	No
24	Honey-Locust	Gleditsia triacanthos	17					17	6	10	Good	ETB, SB, MB, FS, DW, RP	1.5	Peel District School Board	No	No
25	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	ER, MB, TW, WNC, PP, FS, RP	1.5	Peel District School Board	No	No
26	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, SF, RP	2.4	City of Mississauga (Park)	No	Yes
27	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
28	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
29	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
30	Yellow-Wood	Cladrastis kentukea	5					5	1	0	Fair	LT, PTL, PP, SL	2.4	City of Mississauga (Park)	No	Yes
31	Yellow-Wood	Cladrastis kentukea	6					6	1	10	Fair	LT, SB, RH, MB, FS, TW, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
32	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, VC, DC, SF	1.5	Peel District School Board	No	No
33	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
34	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, NST, DC, SF	1.5	Peel District School Board	No	No
35	Honey-Locust	Gleditsia triacanthos	18					18	7	10	Good	FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
36	Yellow-Wood	Cladrastis kentukea	3	2	2	1		4	1	0	Fair	PTL, ML, FS, RP	2.4	City of Mississauga (Park)	No	Yes
37	Yellow-Wood	Cladrastis kentukea	4	3	2	2		6	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga (Park)	No	Yes
38	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
39	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
40	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
41	Yellow-Wood	Cladrastis kentukea	3					3	2	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes
42	Yellow-Wood	Cladrastis kentukea	6					6	1	5	Fair	ML, FS,,RP	2.4	City of Mississauga (Park)	No	Yes
43	Honey-Locust	Gleditsia triacanthos	11					11	5	10	Good	LT, MB, DC	1.5	Peel District School Board	No	No
44	Spruce - Colorado	Picea pungens	12					12	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
45	Spruce - Colorado	Picea pungens	10					10	2	30	Fair	VC, LT, SL, CD	1.5	Peel District School Board	No	No
46	Honey-Locust	Gleditsia triacanthos	19					19	7	5	Good	ER, ST, DW, FS, RP	1.5	Peel District School Board	No	No
47	Maple - Norway	Acer platanoides	5					5	2	10	Fair	1SD, LS, GTF	1.2	Peel District School Board	No	No
48	Elm - Siberian	Ulmus pumila	20	7				21	7	15	Good	TK2, GTF, FS, DW, SF, RP	1.8	Peel District School Board	No	No
49	Maple - Manitoba	Acer negundo	12	9	6			16	5	25	Fair	TK3, GTF, LN (L), FS, CT, 1SD, UC, PP, RP	1.5	Peel District School Board	No	No
50	Maple - Manitoba	Acer negundo	17	10	10			22	9	15	Good	TK3, GTF, RH, CT, RP	1.8	Peel District School Board	No	No
51	Sweetgum	Liquidambar styraciflua	6					6	1	40	Poor	SL, PP, RH, SB	2.4	City of Mississauga (Park)	No	Yes
52	Sweetgum	Liquidambar styraciflua	5					5	1	30	Fair	RH, SL	2.4	City of Mississauga (Park)	No	Yes
53	Sweetgum	Liquidambar styraciflua	4					4	1	25	Fair	LT, SL, RH	2.4	City of Mississauga (Park)	No	Yes
54	Yellow-Wood	Cladrastis kentukea	4					4	1	5	Fair	LT, CT, MB, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
55	Sweetgum	Liquidambar styraciflua	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
56	Spruce - Colorado	Picea pungens	11					11	3	5	Good	LT, DC, ML, RP	2.4	City of Mississauga (Park)	No	Yes
57	Sweetgum	Liquidambar styraciflua	4					4	0	100	Dead	SB, DW, RM	0	City of Mississauga (Park)	No	Yes
58	Spruce - Colorado	Picea pungens	9					9	2	5	Good	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
59	Spruce - Colorado	Picea pungens	8					8	2	15	Fair	PTL, GC, SF, RF	2.4	City of Mississauga (Park)	No	Yes
60	Sweetgum	Liquidambar styraciflua	5					5	1	15	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
61	Sweetgum	Liquidambar styraciflua	5					5	1	35	Fair	LT, PTL, 1SD, RP	2.4	City of Mississauga (Park)	No	Yes
62	Spruce - Colorado	Picea pungens	8					8	2	25	Fair	GC, 1SD, PL, SL, DW	2.4	City of Mississauga (Park)	No	Yes
63	Maple - Manitoba	Acer negundo	27					27	10	20	Fair	GTF, DE, PP, 1SD, UC, RP	3.6	City of Mississauga (Park)	No	Yes
64	Apple sp.	Malus sp.	13					13	5	20	Fair	LN (M), SB, ST, SC, 1SD, UC	2.4	City of Mississauga (Park)	No	Yes
65	Honey-Locust	Gleditsia triacanthos	51					51	13	15	Good	LT, BSD, WNC, FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
66	Oak - Red	Quercus rubra	8					8	3	10	Fair	TW, WNC, DC	2.4	City of Mississauga (Park)	No	Yes
67	Oak - Red	Quercus rubra	7					7	3	10	Fair	ML, LT, RP	2.4	City of Mississauga (Park)	No	Yes
68	Spruce - Colorado	Picea pungens	9					9	3	0	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
69	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	4	3				5	1	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
1	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 3 Impact Area	3	NA	2354.52	Yes
2	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	NA	695.75	Yes
3	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	NA	884.40	Yes
4	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	NA	1031.85	Yes
5	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 3 Impact Area	2	NA	940.20	Yes
6	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	2	NA	1463.90	Yes
7	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 3 Impact Area	2	NA	1173.81	Yes
8	Honey-Locust	Gleditsia triacanthos	Protect	Alternative 3 Study Area	NA	NA	805.50	No
9	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	5	NA	7622.86	Yes
10	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 3 Impact Area	1	NA	805.50	Yes
11	Apple sp.	Malus sp.	Protect	Outside Alternative 3 Study Area	NA	NA	1055.75	No
12	Maple - Norway	Acer platanoides	Protect	Outside Alternative 3 Study Area	NA	NA	546.13	No
13	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	423.25	No
14	Maple - Norway	Acer platanoides	Protect	Outside Alternative 3 Study Area	NA	NA	754.29	No
15	Oak - Red	Quercus rubra	Protect	Alternative 3 Study Area	NA	NA	843.92	No
16	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	226.61	No
17	Zelkova - Japanese	Zelkova serrata	Remove	Alternative 3 Impact Area	NA	NA	278.53	Yes
18	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	170.47	No
19	Oak - English	Quercus robur	Protect	Alternative 3 Study Area	NA	NA	762.24	No
20	Maple - Norway	Acer platanoides	Protect	Outside Alternative 3 Study Area	NA	NA	955.96	No
21	Maple - Norway	Acer platanoides	Protect	Outside Alternative 3 Study Area	NA	NA	817.18	No
22	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	1013.86	No
23	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	940.20	No
24	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	940.20	No
25	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	1173.81	No
26	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Impact Area	NA	NA	247.92	Yes
27	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Impact Area	NA	NA	247.92	Yes
28	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Study Area	NA	NA	247.92	Yes
29	Gingko	Gingko biloba	Remove	Alternative 3 Impact Area	NA	NA	264.68	Yes
30	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 3 Study Area	NA	NA	241.00	No
31	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 3 Study Area	NA	NA	259.21	No
32	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
33	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
34	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
35	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	1013.86	No
36	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 3 Study Area	NA	NA	226.09	No
37	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 3 Study Area	NA	NA	259.21	No
38	Gingko	Gingko biloba	Remove	Alternative 3 Impact Area	NA	NA	264.68	Yes
39	Gingko	Gingko biloba	Remove	Alternative 3 Impact Area	NA	NA	264.68	Yes
40	Gingko	Gingko biloba	Remove	Alternative 3 Impact Area	NA	NA	264.68	Yes
41	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 3 Study Area	NA	NA	214.50	No
42	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 3 Study Area	NA	NA	259.21	No
43	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	586.62	No
44	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
45	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
46	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 3 Study Area	NA	NA	1091.73	No
47	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	297.21	No
48	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 3 Study Area	NA	NA	716.62	No
49	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 3 Study Area	NA	NA	312.27	No
50	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 3 Study Area	NA	NA	679.22	No
51	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 3 Study Area	NA	NA	162.16	No
52	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 3 Study Area	NA	NA	270.95	No
53	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 3 Study Area	NA	NA	257.60	No
54	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 3 Study Area	NA	NA	226.09	No
55	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 3 Study Area	NA	NA	270.95	No
56	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
57	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 3 Study Area	NA	NA	41.55	No
58	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
59	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
60	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 3 Study Area	NA	NA	270.95	No
61	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 3 Study Area	NA	NA	270.95	No
62	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	0.00	No
63	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 3 Study Area	NA	NA	756.48	No
64	Apple sp.	Malus sp.	Retain	Outside Alternative 3 Study Area	NA	NA	413.39	No
65	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 3 Study Area	NA	NA	5806.14	No
66	Oak - Red	Quercus rubra	Protect	Outside Alternative 3 Study Area	NA	NA	443.85	No
67	Oak - Red	Quercus rubra	Retain	Outside Alternative 3 Study Area	NA	NA	413.82	No
68	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	442.87	No
69	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	327.80	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	327.80	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
71	Oak - Red	Quercus rubra	3					3	1	20	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
72	Oak - Red	Quercus rubra	4					4	1	5	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
73	Oak - Red	Quercus rubra	3					3	1	25	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
74	Spruce - Colorado	Picea pungens	5					5	2	45	Poor	LT, CD, DW, RM	2.4	City of Mississauga (Park)	No	Yes
75	Maple - Freeman	Acer x freemanii	3	3	2			5	3	25	Poor	TK3, PP, GTF, RM	2.4	City of Mississauga (Park)	No	Yes
76	Spruce - Colorado	Picea pungens	5					5	2	15	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
77	Maple - Freeman	Acer x freemanii	43					43	12	10	Good	PP, TW, WNC, FK@5M, DW, SB, RP	6	City of Mississauga (Park)	No	Yes
78	Spruce - White	Picea glauca	5					5	3	25	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
79	Spruce - White	Picea glauca	9					9	4	15	Fair	LT, ML, PL, RP	2.4	City of Mississauga (Park)	No	Yes
80	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
81	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	FK@2M, RP, LT	2.4	City of Mississauga (Park)	No	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, ML	2.4	City of Mississauga (Park)	No	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	5	2				5	2	10	Fair	TK2, LT, RP	2.4	City of Mississauga (Park)	No	Yes
84	Honey-Locust	Gleditsia triacanthos	44					44	13	10	Good	FK@2M, CT, DW, FS, RP	6	City of Mississauga (Park)	No	Yes
85	Cherry - Sweet	Prunus avium	24	23	14	11		38	6	25	Fair	TK4, PP, WNC, FS, SC, RP	2.4	Private	No	No
86	Apple sp.	Malus sp.	12					12	4	10	Good	PP, LN (L), CT, SC, DC, RP	1.5	Private	No	No
87	Oak - Swamp White	Quercus bicolor	5					5	1	10	Fair	LT, SL, SG	2.4	City of Mississauga (Park)	No	Yes
88	Oak - Swamp White	Quercus bicolor	6					6	1	15	Fair	LT, SB, SF	2.4	City of Mississauga (Park)	No	Yes
89	Spruce - Colorado	Picea pungens	28					28	5	10	Good	LT, PP, DC, SF	1.8	Private	No	No
90	Horsechestnut - European	Aesculus hippocastanum	32					32	9	5	Good	LT, MB, DC, SF	2.4	Private	No	No
91	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
92	Oak - Swamp White	Quercus bicolor	4					4	1	10	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
93	Spruce - Colorado	Picea pungens	12					12	3	15	Good	LT, 1SD, NST	2.4	City of Mississauga (Park)	No	Yes
94	Maple - Norway	Acer platanoides	7					7	1	0	Fair	GTF, BR2, DW, SL	2.4	City of Mississauga (Park)	No	Yes
95	Maple - Manitoba	Acer negundo	12	12	11	9		22	6	10	Good	TK4, FS, GTF, FS, RP	3.6	City of Mississauga (Park)	No	Yes
96	Maple - Norway	Acer platanoides	7	5				9	1	15	Fair	TK2, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
97	Spruce - Colorado	Picea pungens	11					11	3	10	Good	LT, ER, SL, SF	2.4	City of Mississauga (Park)	No	Yes
98	Mulberry - White	Morus alba	19	15	14	13	8	32	7	15	Fair	TK5, GTF, PP, WNC, TW, FS, RP	4.8	City of Mississauga (Park)	No	Yes
99	Spruce - Colorado	Picea pungens	10					10	2	0	Good	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
100	Apple sp.	Malus sp.	27	24	19	17		44	9	25	Fair	TK4, PP, ST, SC, FS, SN, RH, RP	6	City of Mississauga (Park)	No	Yes
101	Apple sp.	Malus sp.	4	3	3	3		7	2	10	Fair	TK4, FS, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
102	Sweetgum	Liquidambar styraciflua	4					4	1	30	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
103	Sweetgum	Liquidambar styraciflua	6					6	1	15	Fair	LT, SL, PP	2.4	City of Mississauga (Park)	No	Yes
104	Kentucky Coffeetree	Gymnocladus dioicus	5					5	2	10	Good	LT, ML	2.4	City of Mississauga (Park)	No	Yes
105	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
106	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	DC, SF, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
107	Honey-Locust	Gleditsia triacanthos	59					59	13	10	Good	FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
108	Spruce - Colorado	Picea pungens	9					9	3	5	Good	LT, ER, SF	2.4	City of Mississauga (Park)	No	Yes
109	Spruce - White	Picea glauca	9					9	3	0	Good	ER, LT, SF	2.4	City of Mississauga (Park)	No	Yes
110	Mulberry - White	Morus alba	7	4				8	3	25	Fair	TK2, GTF, LN (L), ML, RP	2.4	City of Mississauga (Park)	No	Yes
111	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, SF	2.4	City of Mississauga (Park)	No	Yes
112	Oak - Red	Quercus rubra	7					7	2	15	Fair	LT, ER, FK@3M, ML, RP	2.4	City of Mississauga (Park)	No	Yes
113	Oak - Red	Quercus rubra	6					6	2	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
114	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	PP, TK4, RP	2.4	City of Mississauga (Park)	No	Yes
115	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	15	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
116	Oak - Red	Quercus rubra	8					8	2	0	Fair	ER, LT, PL, DC, 1SD	2.4	City of Mississauga (Park)	No	Yes
117	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
118	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	15	Fair	TK3, SB, RP	2.4	City of Mississauga (Park)	No	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	3	3	3	3		6	1	5	Fair	LT, TW, WNC, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	10	Fair	BSD, LN (L), WNC, LT, SF	2.4	City of Mississauga (Park)	No	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
122	Linden - Little-Leaf	Tilia cordata	3					3	1	15	Fair	LT, BR1, ML, RP	2.4	City of Mississauga (Park)	No	Yes
123	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
124	Linden - Little-Leaf	Tilia cordata	4					4	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
125	Pine - Austrian	Pinus nigra	37					37	7	15	Good	TW, WNC, CT, AD (sapsucker), LN (L), FS, RP	4.8	City of Mississauga (Park)	No	Yes
126	Sweetgum	Liquidambar styraciflua	4					4	4	5	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
127	Cherry - Sweet	Prunus avium	5	4				6	2	10	Fair	TK2, 1SD, FS, RP	2.4	City of Mississauga (Park)	No	Yes
128	Spruce - Colorado	Picea pungens	7					7	2	10	Fair	LT, FS, SF, RP	2.4	City of Mississauga (Park)	No	Yes
129	Spruce - Colorado	Picea pungens	6					6	2	0	Fair	LT, PL, RP	2.4	City of Mississauga (Park)	No	Yes
130	Pear sp.	Pyrus sp.	12	10				16	5	25	Fair	TK2, 1SD, UC, DW, LN (L), RP	2.4	City of Mississauga (Park)	No	Yes
131	Maple - Manitoba	Acer negundo	10	5	5	4	4	13	5	30	Fair	TK5, ST, SC, FS, PP, RP	2.4	City of Mississauga (Park)	No	Yes
132	Linden - Little-Leaf	Tilia cordata	4	4				6	1	20	Fair	TK2, GTF, LN (L), PP, SC, 1SD, LS	2.4	City of Mississauga (Park)	No	Yes
133	Spruce - White	Picea glauca	7					7	3	25	Fair	LT, CD, CN, SF	2.4	City of Mississauga (Park)	No	Yes
134	Spruce - White	Picea glauca	9					9	2	20	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
135	Spruce - White	Picea glauca	6					6	2	30	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
136	Cottonwood - Eastern	Populus deltoides	24	18				30	7	20	Fair	TK2, DW, CD, PB, RP	3.6	City of Mississauga (Park)	No	Yes
137	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
138	Catalpa - Northern	Catalpa speciosa	4					4	1	10	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
139	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
140	Oak - English	Quercus robur	55					55	6	10	Good	DC, SL	3.6	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
71	Oak - Red	Quercus rubra	Protect	Alternative 3 Study Area	NA	NA	333.75	No
72	Oak - Red	Quercus rubra	Retain	Outside Alternative 3 Study Area	NA	NA	347.76	No
73	Oak - Red	Quercus rubra	Retain	Outside Alternative 3 Study Area	NA	NA	333.75	No
74	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 3 Study Area	NA	NA	190.63	No
75	Maple - Freeman	Acer x freemanii	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 3 Study Area	NA	NA	158.60	No
76	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	337.69	No
77	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 3 Study Area	NA	NA	4143.23	No
78	Spruce - White	Picea glauca	Protect	Outside Alternative 3 Study Area	NA	NA	320.55	No
79	Spruce - White	Picea glauca	Retain	Outside Alternative 3 Study Area	NA	NA	424.35	No
80	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 3 Study Area	NA	NA	617.49	No
81	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	327.80	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	327.80	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	327.80	Yes
84	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 3 Study Area	NA	NA	4406.55	No
85	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 3 Study Area	NA	NA	2267.01	No
86	Apple sp.	Malus sp.	Retain	Outside Alternative 3 Study Area	NA	NA	487.96	No
87	Oak - Swamp White	Quercus bicolor	Protect	Outside Alternative 3 Study Area	NA	NA	327.80	No
88	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 3 Study Area	NA	NA	348.19	No
89	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	2275.19	No
90	Horsechestnut - European	Aesculus hippocastanum	Retain	Outside Alternative 3 Study Area	NA	NA	2395.77	No
91	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	327.80	Yes
92	Oak - Swamp White	Quercus bicolor	Protect	Alternative 3 Study Area	NA	NA	311.12	No
93	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 3 Study Area	NA	NA	724.13	No
94	Maple - Norway	Acer platanoides	Retain	Outside Alternative 3 Study Area	NA	NA	337.54	No
95	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 3 Study Area	NA	NA	679.22	No
96	Maple - Norway	Acer platanoides	Retain	Outside Alternative 3 Study Area	NA	NA	391.32	No
97	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 3 Study Area	NA	NA	668.38	No
98	Mulberry - White	Morus alba	Retain	Outside Alternative 3 Study Area	NA	NA	1818.03	No
99	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 3 Study Area	NA	NA	617.49	No
100	Apple sp.	Malus sp.	Retain	Outside Alternative 3 Study Area	NA	NA	2902.52	No
101	Apple sp.	Malus sp.	Retain	Outside Alternative 3 Study Area	NA	NA	244.35	No
102	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 3 Study Area	NA	NA	257.60	No
103	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 3 Study Area	NA	NA	287.26	No
104	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 3 Impact Area	NA	NA	422.97	Yes
105	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Impact Area	NA	NA	247.92	Yes
106	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 3 Impact Area	1	NA	805.50	Yes
107	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 3 Impact Area	4	NA	7658.23	Yes
108	Spruce - Colorado	Picea pungens	Remove	Alternative 3 Study Area	1	NA	571.44	Yes
109	Spruce - White	Picea glauca	Remove	Alternative 3 Study Area	1	NA	547.54	Yes
110	Mulberry - White	Morus alba	Protect	Alternative 3 Study Area	NA	NA	299.63	No
111	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 3 Study Area	NA	NA	617.49	No
112	Oak - Red	Quercus rubra	Remove	Alternative 3 Impact Area	1	NA	413.82	Yes
113	Oak - Red	Quercus rubra	Remove	Alternative 3 Impact Area	1	NA	387.80	Yes
114	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
115	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
116	Oak - Red	Quercus rubra	Remove	Alternative 3 Impact Area	1	NA	443.85	Yes
117	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
118	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 3 Impact Area	1	NA	305.64	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 3 Impact Area	1	NA	305.64	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Protect	Alternative 3 Study Area	NA	NA	305.64	No
122	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Impact Area	NA	NA	247.92	Yes
123	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Impact Area	NA	NA	247.92	Yes
124	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 3 Impact Area	NA	NA	260.38	Yes
125	Pine - Austrian	Pinus nigra	Protect	Outside Alternative 3 Study Area	NA	NA	3041.61	No
126	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 3 Study Area	NA	NA	257.60	No
127	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 3 Study Area	NA	NA	213.99	No
128	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	382.76	No
129	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 3 Study Area	NA	NA	358.35	No
130	Pear sp.	Pyrus sp.	Retain	Outside Alternative 3 Study Area	NA	NA	414.41	No
131	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 3 Study Area	NA	NA	230.57	No
132	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 3 Study Area	NA	NA	295.96	No
133	Spruce - White	Picea glauca	Retain	Outside Alternative 3 Study Area	NA	NA	365.03	No
134	Spruce - White	Picea glauca	Retain	Outside Alternative 3 Study Area	NA	NA	424.35	No
135	Spruce - White	Picea glauca	Protect	Outside Alternative 3 Study Area	NA	NA	340.94	No
136	Cottonwood - Eastern	Populus deltoides	Protect	Outside Alternative 3 Study Area	NA	NA	1657.43	No
137	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 3 Study Area	NA	NA	240.06	No
138	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 3 Study Area	NA	NA	226.50	No
139	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 3 Study Area	NA	NA	240.06	No
140	Oak - English	Quercus robur	Retain	Outside Alternative 3 Study Area	NA	NA	8111.92	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
141	Maple - Norway	Acer platanoides	47					47	11	20	Fair	ER, GR, MB, PP, WNC, UW, SC	3	City of Mississauga (Road ROW)	No	No
142	Spruce - White	Picea glauca	30					30	6	35	Fair	LT, CD, CN, PP, UW, RP	1.8	Private	No	No
143	Maple - Silver	Acer saccharinum	61					61	13	15	Good	GC, FK@2M, FK@4M, BR3, PF, 1SD, SC, RP	4.2	City of Mississauga (Road ROW)	No	No
144	Maple - Norway	Acer platanoides	62					62	16	15	Good	FK@2M, UW, PP, WC, 1SD	4.2	Private	No	No
145	Honey-Locust	Gleditsia triacanthos	6					6	1	15	Fair	LT, SL	1.2	City of Mississauga (Road ROW)	No	No
146	Pine - Scots	Pinus sylvestris	26					26	5	25	Fair	LT, PTL, DW, AD (sapsucker), RP	1.8	City of Mississauga (Road ROW)	No	No
147	Maple - Norway	Acer platanoides	32					32	12	35	Fair	BSD, TW, DE, PB, CD, MB, RP	2.4	City of Mississauga (Road ROW)	No	No
148	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, SF	1.5	Private	No	No
149	Apple sp.	Malus sp.	27					27	5	35	Fair	CT, TW, DE, CD, PP, RP	1.8	Private	No	No
150	Mulberry - White	Morus alba	5	5	3			8	3	0	Fair	TK3, PP, SC	1.2	City of Mississauga (Road ROW)	No	No
151	Spruce - White	Picea glauca	35					35	8	20	Fair	LT, 1SD, UW, PL	2.4	Private	No	No
152	Honey-Locust	Gleditsia triacanthos	48					48	8	20	Fair	GC, RH, SC, PP, UW, DW, RP	3	Private	No	No
153	Serviceberry sp.	Amelanchier sp.	1	1	1	1	1	2	1	15	Fair	TK6, SB, RP	2.4	City of Mississauga (Park)	No	Yes
154	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, FS, RP	2.4	City of Mississauga (Park)	No	Yes
155	Birch - White	Betula papyrifera	25					25	0	100	Dead	DW, RM	0	Private	No	No
156	Pine - Austrian	Pinus nigra	45					45	10	15	Good	PP, FK@2M, FS, RP	3	City of Mississauga (Road ROW)	No	No
157	Juniper - Eastern	Juniperus virginiana	10	7	5			13	3	25	Fair	LS, TK3, DW, 1SD, UC	1.5	City of Mississauga (Road ROW)	No	No
158	Douglas-Fir	Pseudotsuga menziesii	30					30	6	10	Good	DC, SF	1.8	City of Mississauga (Road ROW)	No	No
159	Juniper - Eastern	Juniperus virginiana	12	8	8	5		17	4	45	Poor	TK4, SN, LS, 1SD	1.5	City of Mississauga (Road ROW)	No	No
160	Douglas-Fir	Pseudotsuga menziesii	19					19	4	25	Fair	1SD, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
161	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
162	Maple - Manitoba	Acer negundo	6					6	1	25	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
163	Maple - Manitoba	Acer negundo	2					2	1	10	Fair	SP, GTF	1.2	City of Mississauga (Road ROW)	No	No
164	Maple - Freeman	Acer x freemanii	4	3				5	1	15	Fair	TK2, SP, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
165	Ash - White	Fraxinus americana	4					4	1	10	Fair	SL, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
166	Maple - Manitoba	Acer negundo	7	6	5			10	2	10	Fair	TK3, GTF, SL, ML, RP	1.5	City of Mississauga (Road ROW)	No	No
167	Maple - Manitoba	Acer negundo	10	7				12	4	15	Fair	TK2, MB, ML, FS, ST, RP	1.5	City of Mississauga (Road ROW)	No	No
168	Ash - White	Fraxinus americana	11	10				15	6	15	Fair	TK2, EAB, PP, SC, RP	1.5	City of Mississauga (Road ROW)	No	No
169	Cedar - Eastern-White	Thuja occidentalis	15					15	4	0	Good	DC, SF	1.5	Private	No	No
170	Maple - Manitoba	Acer negundo	10	4				11	4	15	Fair	TK2, GTF, PP, ST, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
171	Maple - Silver	Acer saccharinum	53					53	14	15	Good	FK@3M, BR2, SN, MB, FS, RP	3.6	Private	No	No
172	Juniper - Eastern	Juniperus virginiana	31					31	7	25	Fair	PTL, GC, PL, RP	2.4	Private	No	No
173	Juniper - Eastern	Juniperus virginiana	33					33	6	25	Fair	PL, SL, CS, RP	2.4	Private	No	No
174	Mountain-Ash - European	Sorbus aucuparia	12	11				16	4	5	Good	TK2, LS, CT	1.5	Private	No	No
175	Spruce - Colorado	Picea pungens	41					41	5	20	Good	SF, SL, LT	3	City of Mississauga (Road ROW)	No	No
176	Maple - Norway	Acer platanoides	58					58	17	15	Good	MB, RH, DW, FS, UW, SN, RP	3.6	City of Mississauga (Road ROW)	No	No
177	Maple - Silver	Acer saccharinum	61					61	13	15	Good	FK@4M, SN, PF, NST, UW, RP	4.2	City of Mississauga (Road ROW)	No	No
178	Apple sp.	Malus sp.	45					45	9	15	Good	MB, TT, SC, PP, DW, FS, SB, RP	3	City of Mississauga (Road ROW)	No	No
179	Apple sp.	Malus sp.	14					14	0	100	Dead	PB, LN (M), DW, RM	0	Private	No	No
180	Cherry - Sweet	Prunus avium	36					36	9	15	Good	MB, FC, WC, DW, RP	2.4	Private	No	No
181	Mulberry - White	Morus alba	25	24	19	17		43	9	15	Good	TK4, ER, PP, DW, FS, RP	3	City of Mississauga (Road ROW)	No	No
182	Apple sp.	Malus sp.	20	19				28	0	100	Dead	TK2, DW, DE, PF, RM	0	City of Mississauga (Road ROW)	No	No
183	Cherry - Sweet	Prunus avium	57					57	9	30	Fair	MB, PP, PF, ST, FS, RP	3.6	Private	No	No
184	Spruce - Colorado	Picea pungens	55					55	7	10	Good	SF, LT	3.6	Private	No	No
185	Spruce - Colorado	Picea pungens	28					28	5	15	Good	LT, PL, DW, RP	1.8	Private	No	No
186	Spruce - Colorado	Picea pungens	29					29	5	10	Good	LT, DC, SF	1.8	Private	No	No
187	Spruce - Colorado	Picea pungens	41					41	6	10	Good	LT, SF, DC	3	Private	No	No
188	Apple sp.	Malus sp.	17	14	12			25	8	5	Good	TK3, PTL, PP, PC	1.8	City of Mississauga (Road ROW)	No	No
189	Apple sp.	Malus sp.	9					9	4	15	Fair	SC, PC	1.2	City of Mississauga (Road ROW)	No	No
190	Apple sp.	Malus sp.	16	14				21	8	15	Good	TK2, FS, SC, PP, PC, RP	1.8	City of Mississauga (Road ROW)	No	No
191	Cherry - Sweet	Prunus avium	23	21				31	7	15	Good	TK2, PB, PP, SC, PC, IB	2.4	Private	No	No
192	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	10	Fair	TK3, FS, RP	1.2	City of Mississauga (Road ROW)	No	No
193	Cedar - Eastern-White	Thuja occidentalis	3	3	2	2		5	1	0	Fair	TK4, PP, VC	1.2	City of Mississauga (Road ROW)	No	No
194	Mountain-Ash - European	Sorbus aucuparia	7					7	2	5	Fair	DC, SF	1.2	Private	No	No
195	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, PP	1.5	Private	No	No
196	Serviceberry sp.	Amelanchier sp.	1					1	1	25	Fair	SP	1.2	City of Mississauga (Road ROW)	No	No
197	Maple - Manitoba	Acer negundo	23	9	5			25	5	10	Good	TK3, GTF, FK@3M, ETB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
198	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP	1.2	City of Mississauga (Road ROW)	No	No
199	Maple - Norway	Acer platanoides	4	2				4	1	15	Fair	TK2, LS, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
200	Maple - Norway	Acer platanoides	7					7	2	10	Fair	FS, GTF, TD, FK2@2M, SF,	1.2	City of Mississauga (Road ROW)	No	No
201	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP, TK2	1.2	City of Mississauga (Road ROW)	No	No
202	Maple - Manitoba	Acer negundo	18	17	14			28	8	10	Fair	TK3, GTF, ETB, SB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
203	Maple - Norway	Acer platanoides	2	1				2	1	25	Fair	TK2, PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
204	Maple - Norway	Acer platanoides	8					8	1	30	Fair	PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
205	Maple - Manitoba	Acer negundo	14	14	9			22	7	10	Good	TK3, GTF, RH, ST, PP, TD, WNC	1.8	City of Mississauga (Road ROW)	No	No
206	Cherry - Sweet	Prunus avium	6					6	1	15	Fair	PP, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
207	Maple - Manitoba	Acer negundo	4					4	1	20	Fair	GTF, PP, LS, RP	1.2	City of Mississauga (Road ROW)	No	No
208	Maple - Manitoba	Acer negundo	10	5	4			12	3	25	Poor	TK3, LN(M), GTF, SB, ST, PP, ML, RP	1.5	Private	No	No
209	Maple - Norway	Acer platanoides	13	12				18	6	20	Fair	GTF, TK2, PP, TD, WNC, ML PB	1.5	City of Mississauga (Road ROW)	No	No
210	Spruce - Norway	Picea abies	29					29	5	15	Good	PP, 1SD, RP	1.8	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
141	Maple - Norway	Acer platanoides	Retain	Outside Alternative 3 Study Area	NA	NA	3967.48	No
142	Spruce - White	Picea glauca	Retain	Outside Alternative 3 Study Area	NA	NA	1942.38	No
143	Maple - Silver	Acer saccharinum	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	7387.53	No
144	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	8664.70	No
145	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	315.98	No
146	Pine - Scots	Pinus sylvestris	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1043.33	No
147	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1976.06	No
148	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	850.15	No
149	Apple sp.	Malus sp.	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1202.25	No
150	Mulberry - White	Morus alba	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	299.63	No
151	Spruce - White	Picea glauca	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	2544.78	No
152	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4015.32	No
153	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
154	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
155	Birch - White	Betula papyrifera	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	175.97	No
156	Pine - Austrian	Pinus nigra	Remove	Alternative 3 Impact Area	3	NA	4359.50	Yes
157	Juniper - Eastern	Juniperus virginiana	Remove	Alternative 3 Impact Area	1	NA	407.67	Yes
158	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 3 Impact Area	2	NA	2321.74	Yes
159	Juniper - Eastern	Juniperus virginiana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	2	NA	333.94	Yes
160	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 3 Impact Area	2	NA	866.90	Yes
161	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	NA	117.88	Yes
162	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	NA	105.67	Yes
163	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	NA	75.61	Yes
164	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	NA	NA	280.95	Yes
165	Ash - White	Fraxinus americana	Remove	Alternative 3 Impact Area	NA	NA	187.26	Yes
166	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	NA	165.77	Yes
167	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	NA	207.09	Yes
168	Ash - White	Fraxinus americana	Remove	Alternative 3 Impact Area	1	NA	559.15	Yes
169	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	703.51	No
170	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	NA	185.49	Yes
171	Maple - Silver	Acer saccharinum	Protect - Injury	Alternative 3 Study Area	NA	NA	5642.58	No
172	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 3 Study Area	NA	NA	1621.21	No
173	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 3 Study Area	NA	NA	1817.34	No
174	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 3 Study Area	NA	NA	735.43	No
175	Spruce - Colorado	Picea pungens	Remove	Alternative 3 Study Area	3	NA	4449.09	Yes
176	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 3 Study Area	NA	NA	7623.86	No
177	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	5	NA	7387.53	Yes
178	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	3	NA	3906.96	Yes
179	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	72.81	No
180	Cherry - Sweet	Prunus avium	Protect	Alternative 3 Study Area	NA	NA	2646.72	No
181	Mulberry - White	Morus alba	Remove	Alternative 3 Impact Area	3	NA	4029.57	Yes
182	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	206.41	Yes
183	Cherry - Sweet	Prunus avium	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	4898.89	No
184	Spruce - Colorado	Picea pungens	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	7706.32	No
185	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	2275.19	No
186	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 3 Study Area	NA	NA	2413.33	No
187	Spruce - Colorado	Picea pungens	Protect	Alternative 3 Study Area	NA	NA	4449.09	No
188	Apple sp.	Malus sp.	Protect - Injury	Alternative 3 Study Area	NA	NA	1362.25	No
189	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	1	NA	289.43	Yes
190	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	2	NA	1027.81	Yes
191	Cherry - Sweet	Prunus avium	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	2016.44	No
192	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	170.47	Yes
193	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	NA	189.34	Yes
194	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 3 Study Area	NA	NA	263.01	No
195	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	920.43	No
196	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	NA	NA	165.20	Yes
197	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	NA	850.07	Yes
198	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	NA	220.91	Yes
199	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	NA	282.08	Yes
200	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	NA	337.54	Yes
201	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	NA	220.91	Yes
202	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	NA	808.13	Yes
203	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	NA	261.92	Yes
204	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	NA	362.75	Yes
205	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	NA	679.22	Yes
206	Cherry - Sweet	Prunus avium	Remove	Alternative 3 Impact Area	1	NA	213.99	Yes
207	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	NA	86.88	Yes
208	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	116.91	No
209	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	NA	799.69	Yes
210	Spruce - Norway	Picea abies	Remove	Alternative 3 Impact Area	2	NA	2232.40	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
211	Maple - Manitoba	Acer negundo	5					5	2	30	Poor	GTF, PP, MB, TD, SB, LS	1.2	City of Mississauga (Road ROW)	No	No
212	Spruce - Norway	Picea abies	31					31	5	15	Good	SL, SF	2.4	Private	No	No
213	Apple sp.	Malus sp.	6	6	6	5		12	2	5	Fair	TK4, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
214	Apple sp.	Malus sp.	12					12	3	20	Fair	LT, PP, MB, WNC, SC,	1.5	Private	No	No
215	Cherry - Sweet	Prunus avium	48					48	5	35	Fair	PP, RH, FK@3M, CD, PC, RP	3	Private	No	No
216	Spruce - Colorado	Picea pungens	47					47	6	25	Fair	LT, PL, CD, CN	3	Private	No	No
217	Mulberry - White	Morus alba	8	7	7	5		14	8	10	Good	TK4, PP, TW, WNC, MB, FS, RP, LT	1.5	City of Mississauga (Road ROW)	No	No
218	Spruce - White	Picea glauca	27					27	5	15	Good	ER, LT, PP, DC	1.8	Private	No	No
219	Cedar - Eastern-White	Thuja occidentalis	8	7	5			12	2	0	Fair	LS, PP, CS	1.5	Private	No	No
220	Spruce - White	Picea glauca	35					35	9	5	Good	LT, SF, DC, PP, TW, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
221	Mulberry - White	Morus alba	7	5				9	4	5	Fair	TK2, LN (L), ST, RP	1.2	City of Mississauga (Road ROW)	No	No
222	Cherry - Sweet	Prunus avium	20					20	6	10	Good	PB, TW, WNC, MB, RP	1.5	Private	No	No
223	Maple - Silver	Acer saccharinum	42					42	15	10	Good	LT, FK4@3M, MB, DC, SN, PP, WNC	3	Private	No	No
224	Cherry sp.	Prunus sp.	4	3	3			6	2	15	Fair	TK3, ML, RP	1.2	Private	No	No
225	Cherry sp.	Prunus sp.	7					7	2	10	Fair	1SD, ML, DC	1.2	Private	No	No
226	Pine - Austrian	Pinus nigra	32					32	9	10	Good	LT, PP, TW, WNC, 1SD, DW, BR3	2.4	City of Mississauga (Road ROW)	No	No
227	Pine - Austrian	Pinus nigra	30					30	8	10	Good	LT, LNM, PP, WNC, DW,	1.8	City of Mississauga (Road ROW)	No	No
228	Maple - Silver	Acer saccharinum	12	11	10	9	8	23	5	5	Good	TK8, SB, FS, ML, RP	1.8	Private	No	No
229	Pine - Austrian	Pinus nigra	27					27	8	10	Good	LT, PP, TW, WNC, 1SD, DW	1.8	Private	No	No
230	Spruce - White	Picea glauca	33					33	6	10	Good	DC, SF, PP	4	Private	Yes	No
231	Spruce - White	Picea glauca	21					21	0	100	Hazard	DW, PB, HP, R,	0	Private	Yes	No
232	Maple - Manitoba	Acer negundo	20	19	16	15		35	10	25	Fair	TK4, SB, FS, GTF, PP, UW, SN, CT, VC, RP	6	City of Mississauga (Road ROW)	Yes	No
233	Cedar - Eastern-White	Thuja occidentalis	14	16	14			25	5	35	Fair	LT, PP, CS, BR1, TW, WC, WNC, SF, PF, BSD,	3.5	City of Mississauga (Road ROW)	Yes	No
234	Maple - Norway	Acer platanoides	12					12	4	10	Good	1SD, UC, LS	3	City of Mississauga (Road ROW)	Yes	No
235	Maple - Norway	Acer platanoides	19					19	8	10	Good	LN (L), FK@2M, UW, RP	5	City of Mississauga (Road ROW)	Yes	No
236	Cedar - Eastern-White	Thuja occidentalis	38					38	6	25	Fair	FK2@2M, SF, PP, SN, DW, ER, IB, LT, CS	4	City of Mississauga (Road ROW)	Yes	No
237	Maple - Norway	Acer platanoides	13	10	9			19	7	10	Good	TK3, DW, FS, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
238	Maple - Norway	Acer platanoides	25					25	6	10	Good	GC, FK@2M, UW, RP	4	City of Mississauga (Road ROW)	Yes	No
239	Cedar - Eastern-White	Thuja occidentalis	14	14				20	4	15	Good	LT, TK2, CS, IB, PP, WC, SF	3	City of Mississauga (Road ROW)	Yes	No
240	Maple - Norway	Acer platanoides	19	14	13			27	7	20	Fair	TK3, FS, 1SD, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
241	Maple - Norway	Acer platanoides	18					18	9	10	Good	UW, LT, PP, DW, RP, FK2@2M, BR1	5.5	City of Mississauga (Road ROW)	Yes	No
242	Maple - Norway	Acer platanoides	22					22	6	10	Good	GTF, FK@2M, MB, UW, TW, WNC, DW, RP	4	City of Mississauga (Road ROW)	Yes	No
243	Fir - Balsam	Abies balsamea	25					25	6	10	Good	LT, DC, SF	4	Private	Yes	No
244	Maple - Norway	Acer platanoides	32					32	13	10	Good	GTF, UW, TW, WC, FK2@3M, DW, PP, MB	7.5	City of Mississauga (Road ROW)	Yes	No
245	Maple - Norway	Acer platanoides	43					43	10	70	Poor	LT, GTF, PF, FK3@1.5M, BR3, BSD, WNC, SN, PP, DW, BC, CD, RP, SC	6	City of Mississauga (Park)	Yes	Yes
246	Maple - Norway	Acer platanoides	5	5	5	4	4	10	4	50	Poor	RFS, TK7, DW, GTF, UW, FS, WNC, PB, RP,	3	City of Mississauga (Road ROW)	Yes	No
247	Maple - Norway	Acer platanoides	3					3	2	10	Fair	RFF, GTF, PP	2.4	City of Mississauga (Park)	Yes	Yes
248	Maple - Norway	Acer platanoides	13	15	10			22	6	20	Poor	GTF, LT, UW, PP, MB, PB, DW, RT, RP	4	City of Mississauga (Road ROW)	Yes	No
249	Cherry - Sweet	Prunus avium	5					5	1	5	Fair	GTF, SL, LS	2.4	City of Mississauga (Park)	Yes	Yes
250	Maple - Manitoba	Acer negundo	13	11				17	5	30	Fair	TK2, FS, GTF, LS, RP	3.5	City of Mississauga (Park)	Yes	Yes
251	Maple - Norway	Acer platanoides	18					18	9	10	Good	LT, RH, PP, UW, CS, LNL, RP	5.5	Private	Yes	No
252	Elm - Siberian	Ulmus pumila	61					61	11	10	Good	FK@2M, FK@3M, RH, ST, PF, NST, DC, RP	8.4	City of Mississauga (Park)	Yes	Yes
253	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	FK@2M, GTF, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
254	Maple - Manitoba	Acer negundo	12					12	4	15	Fair	GTF, CT, SL	3	City of Mississauga (Park)	Yes	Yes
255	Maple - Manitoba	Acer negundo	16	17	17	11	19	36	13	20	Fair	PF, GTF, SC, ST, SB, PP, DW, WNC, BR2, IB, TK6	7.5	City of Mississauga (Park)	Yes	Yes
256	Apple sp.	Malus sp.	30	12				32	7	10	Good	TK2, FK@2M, GTF, SB, 1SD, FS, FK@4M, SC, RP	4.8	City of Mississauga (Park)	Yes	Yes
257	Maple - Manitoba	Acer negundo	17	18				25	8	10	Fair	TK2, LNM, ST, SB, RP, MB	5	City of Mississauga	Yes	Yes
258	Maple - Manitoba	Acer negundo	29					29	6	15	Good	GTF, LN (L), CT, SC, RP	4	City of Mississauga (Park)	Yes	Yes
259	Elm - Siberian	Ulmus pumila	45	42				62	8	15	Good	TK2, IB, FS, LN (M), 1SD	8.4	City of Mississauga (Park)	Yes	Yes
260	Maple - Norway	Acer platanoides	4	5	5	4	4	10	3	10	Poor	ML, MB, LNL, LS, 1SD, BSD, RFS, TK5, WC	2.5	City of Mississauga	Yes	Yes
261	Maple - Manitoba	Acer negundo	39	29	20			53	13	25	Fair	TK3, SB, PF, FK@3M, DW, CT, LN (M), RP	7.5	City of Mississauga (Park)	Yes	Yes
262	Maple - Norway	Acer platanoides	16					16	6	10	Good	GTF, SB, ETB, LS, PP, FS	4	City of Mississauga (Park)	Yes	Yes
263	Cottonwood - Eastern	Populus deltoides	78					78	0	100	Hazard	DW, PP, PB, PC, HP, RM	0	City of Mississauga (Park)	Yes	Yes
264	Maple - Manitoba	Acer negundo	4	3	3	3	3	7	5	5	Fair	TK8, BSD, TD, RT, RP, MB, CT, LNL	3.5	City of Mississauga	Yes	Yes
265	Spruce - Colorado	Picea pungens	17					17	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
266	Spruce - Colorado	Picea pungens	16					16	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
267	Maple - Manitoba	Acer negundo	6	4	3	3	3	9	5	10	Fair	TK5, MB, RT, CT, 1SD, LNL, BSD	3.5	City of Mississauga	Yes	Yes
268	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
269	Spruce - Colorado	Picea pungens	5	5				7	2	0	Fair	LT, RH, TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
270	Spruce - White	Picea glauca	12					12	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
271	Maple - Manitoba	Acer negundo	10	7	3	3		13	5	10	Fair	TK4, RT, LNL, LS, 1SD, TW, WC	3.5	City of Mississauga	Yes	Yes
272	Spruce - White	Picea glauca	10					10	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
273	Spruce - White	Picea glauca	10					10	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
274	Spruce - White	Picea glauca	12					12	3	5	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
275	Maple - Manitoba	Acer negundo	9	5	5	5	4	13	5	10	Fair	TK7, MB, RT, LS, CT, ST,	3.5	City of Mississauga	Yes	Yes
276	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
277	Spruce - White	Picea glauca	9					9	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
278	Maple - Manitoba	Acer negundo	8	5	3			10	4	15	Fair	TK3, SB, ST, MB, RT, LS, CT	3	City of Mississauga	Yes	Yes
279	Maple - Manitoba	Acer negundo	5	3	3	3		7	3	15	Fair	TK3, RT, MB, SB, CT, LS, SC	2.5	City of Mississauga	Yes	Yes
280	Pine - Eastern White	Pinus strobus	24					24	5	5	Good	LY, DC, SF	3.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
211	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	53.82	Yes
212	Spruce - Norway	Picea abies	Protect	Alternative 3 Study Area	NA	NA	2504.09	No
213	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	1	NA	378.17	Yes
214	Apple sp.	Malus sp.	Protect	Alternative 3 Study Area	NA	NA	378.17	No
215	Cherry - Sweet	Prunus avium	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	3520.98	No
216	Spruce - Colorado	Picea pungens	Protect	Alternative 3 Study Area	NA	NA	4439.76	No
217	Mulberry - White	Morus alba	Remove	Alternative 3 Impact Area	1	NA	656.01	Yes
218	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	2097.33	No
219	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	401.09	No
220	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	3	NA	3283.58	Yes
221	Mulberry - White	Morus alba	Remove	Alternative 3 Impact Area	1	NA	326.52	Yes
222	Cherry - Sweet	Prunus avium	Protect	Alternative 3 Study Area	NA	NA	960.96	No
223	Maple - Silver	Acer saccharinum	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	3643.17	No
224	Cherry sp.	Prunus sp.	Protect	Alternative 3 Study Area	NA	NA	182.32	No
225	Cherry sp.	Prunus sp.	Protect	Alternative 3 Study Area	NA	NA	199.02	No
226	Pine - Austrian	Pinus nigra	Remove	Alternative 3 Impact Area	3	NA	2348.51	Yes
227	Pine - Austrian	Pinus nigra	Remove	Alternative 3 Impact Area	2	NA	2099.40	Yes
228	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Study Area	NA	NA	1280.22	No
229	Pine - Austrian	Pinus nigra	Protect	Alternative 3 Study Area	NA	NA	1755.86	No
230	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	2958.32	No
231	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	176.07	No
232	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1222.28	Yes
233	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	1256.97	Yes
234	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	3	641.54	Yes
235	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1112.08	Yes
236	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	3	15	2714.29	Yes
237	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1112.08	Yes
238	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1684.55	Yes
239	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	3	1105.30	Yes
240	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1480.30	Yes
241	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1031.85	Yes
242	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1378.80	Yes
243	Fir - Balsam	Abies balsamea	Protect	Alternative 3 Study Area	NA	NA	1165.13	No
244	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	3	15	2549.75	Yes
245	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	3	20	1898.18	Yes
246	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	1	1	238.93	Yes
247	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	270.32	No
248	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	2	10	603.23	Yes
249	Cherry - Sweet	Prunus avium	Protect	Alternative 3 Study Area	NA	NA	197.95	No
250	Maple - Manitoba	Acer negundo	Protect	Alternative 3 Study Area	NA	NA	343.26	No
251	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 3 Study Area	NA	NA	1031.85	No
252	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	4795.81	No
253	Maple - Manitoba	Acer negundo	Protect	Alternative 3 Study Area	NA	NA	117.88	No
254	Maple - Manitoba	Acer negundo	Protect	Alternative 3 Study Area	NA	NA	207.09	No
255	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1288.96	Yes
256	Apple sp.	Malus sp.	Protect	Alternative 3 Study Area	NA	NA	2087.50	No
257	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	658.81	Yes
258	Maple - Manitoba	Acer negundo	Protect	Alternative 3 Study Area	NA	NA	1111.82	No
259	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	4948.78	No
260	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	1	238.93	Yes
261	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	2709.84	No
262	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	884.40	No
263	Cottonwood - Eastern	Populus deltoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	1651.80	Yes
264	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	117.88	Yes
265	Spruce - Colorado	Picea pungens	Protect	Alternative 3 Study Area	NA	NA	1075.54	No
266	Spruce - Colorado	Picea pungens	Protect	Alternative 3 Study Area	NA	NA	995.56	No
267	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	147.93	Yes
268	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	758.01	Yes
269	Spruce - Colorado	Picea pungens	Remove	Alternative 3 Impact Area	1	1	382.76	Yes
270	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	698.22	Yes
271	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	230.57	Yes
272	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	592.99	Yes
273	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	592.99	Yes
274	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	698.22	Yes
275	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	230.57	Yes
276	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	758.01	Yes
277	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	547.54	Yes
278	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	165.77	Yes
279	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	117.88	Yes
280	Pine - Eastern White	Pinus strobus	Remove	Alternative 3 Study Area	NA	10	1689.29	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
281	Pine - Eastern White	Pinus strobus	22					22	4	15	Good	LT, DC, DW, RP	3	Private	Yes	No
282	Pine - Eastern White	Pinus strobus	21					21	3	10	Good	LT, SL, SF	2.5	Private	Yes	No
283	Walnut - Black	Juglans nigra	5	4				6	3	20	Fair	TK2, RT, FS, CR, SF, LS	2.5	City of Mississauga	Yes	Yes
284	Pine - Eastern White	Pinus strobus	23					23	5	0	Good	LT, DC, SF	3.5	Private	Yes	No
285	Spruce - White	Picea glauca	8					8	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
286	Spruce - White	Picea glauca	5	4				6	1	10	Fair	LT, TK2, ML, RP, RH	2.4	City of Mississauga	Yes	Yes
287	Maple - Manitoba	Acer negundo	9					9	5	10	Good	LNL, FK2@2.5M, UC, RP	3.5	City of Mississauga	Yes	Yes
288	Spruce - White	Picea glauca	8					8	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
289	Maple - Manitoba	Acer negundo	4					4	2	15	Fair	LS, SF, LNL, CT, RP	2.4	City of Mississauga	Yes	Yes
290	Spruce - White	Picea glauca	9					9	2	10	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
291	Spruce - White	Picea glauca	7					7	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
292	Maple - Manitoba	Acer negundo	4					4	1	30	Fair	LS, FS, RP, CT, SF	2.4	City of Mississauga	Yes	Yes
293	Spruce - White	Picea glauca	8					8	3	10	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
294	Pine - Eastern White	Pinus strobus	7					7	0	100	Dead	DW, RM	0	Private	Yes	No
295	Pine - Eastern White	Pinus strobus	21					21	5	15	Good	LT, SF	3.5	Private	Yes	No
296	Maple - Manitoba	Acer negundo	4	3	4			6	3	5	Fair	LS, TK2, CT, RT	2.5	City of Mississauga	Yes	Yes
297	Pine - Eastern White	Pinus strobus	19					19	4	5	Good	LT, DC, SF	3	Private	Yes	No
298	Pine - Eastern White	Pinus strobus	18					18	3	25	Fair	LT, DC, SF, CD	2.5	Private	Yes	No
299	Pine - Eastern White	Pinus strobus	20					20	4	10	Fair	FK@2M, LT, ML, RP	3	Private	Yes	No
300	Pine - Eastern White	Pinus strobus	19					19	3	15	Fair	FK@3M, LT, ML, RP	2.5	Private	Yes	No
301	Maple - Norway	Acer platanoides	46					46	10	10	Good	LT, FK@4M, MB, DC, RP	6	Private	Yes	No
302	Elm - Siberian	Ulmus pumila	6					6	2	15	Fair	GTF, 1SD, UC	2.4	City of Mississauga	Yes	Yes
303	Olive - Russian	Elaeagnus angustifolia	69					69	18	30	Good	ER, BSD, DC, FK2@2M, BR3, DW, SC, SN, PP, WNC, RP, PB	10	City of Mississauga	Yes	Yes
304	Ash - White	Fraxinus americana	7					7	2	35	Fair	ML, EAB, PB, RM	2.4	City of Mississauga	Yes	Yes
305	Ash - White	Fraxinus americana	5					5	2	65	Poor	EAB, DW, RM	2.4	City of Mississauga	Yes	Yes
306	Maple - Manitoba	Acer negundo	7	4				8	4	15	Fair	TK2, LS, SF, TD, WC, CT	3	City of Mississauga	Yes	Yes
307	Maple - Manitoba	Acer negundo	11	8				14	5	10	Good	TK2, MB, SC, RP	3.5	City of Mississauga	Yes	Yes
308	Maple - Manitoba	Acer negundo	5	3	3			7	4	20	Fair	LS, TK3, SF, CT, PP, WNC, RT	3	City of Mississauga	Yes	Yes
309	Maple - Manitoba	Acer negundo	17					17	5	5	Good	FK@2M, DC, RP	3.5	City of Mississauga	Yes	Yes
310	Walnut - Black	Juglans nigra	3					3	1	5	Fair	SL, SF	2.4	City of Mississauga	Yes	Yes
311	Maple - Manitoba	Acer negundo	7					7	3	20	Poor	LS, SF, LNM, RH, UC, BSD	2.5	City of Mississauga	Yes	Yes
312	Maple - Sugar	Acer saccharum	14					14	5	5	Good	DC, SF, NST	3.5	City of Mississauga	Yes	Yes
313	Maple - Manitoba	Acer negundo	13					13	8	10	Good	LT, CT, SB, RP	5	City of Mississauga	Yes	Yes
314	Maple - Sugar	Acer saccharum	12					12	4	10	Good	DC, SF	3	City of Mississauga	Yes	Yes
315	Maple - Manitoba	Acer negundo	6	3	2			7	3	20	Fair	TK3, SB, 1SD, LS	2.5	City of Mississauga	Yes	Yes
316	Maple - Manitoba	Acer negundo	25					25	10	10	Good	GTF, FK2@4M, UC, LNL, MB, RP	6	City of Mississauga	Yes	Yes
317	Maple - Sugar	Acer saccharum	14					14	5	5	Good	MB, DC	3.5	City of Mississauga	Yes	Yes
318	Maple - Sugar	Acer saccharum	14					14	5	0	Good	MB, FS, DC, RP	3.5	City of Mississauga	Yes	Yes
319	Spruce - Colorado	Picea pungens	33					33	6	5	Good	LT, PP, SF	4.8	City of Mississauga	Yes	Yes
320	Maple - Sugar	Acer saccharum	13					13	5	5	Good	MB, DC, BR1, FS, RP	3.5	City of Mississauga	Yes	Yes
321	Maple - Sugar	Acer saccharum	15					15	5	5	Good	DC, MB, FS, RP	3.5	City of Mississauga	Yes	Yes
322	Maple - Manitoba	Acer negundo	5	3	2	2		6	4	15	Fair	TK4, LS, 1SD, RP, RT	3	City of Mississauga	Yes	Yes
323	Maple - Norway	Acer platanoides	28					28	10	15	Good	FK2@4M, 1SD, UC, LNL,	6	City of Mississauga	Yes	Yes
324	Maple - Manitoba	Acer negundo	3	3	3			5	3	5	Fair	TK3, RT, SB, RFS	2.5	City of Mississauga	Yes	Yes
325	Maple - Manitoba	Acer negundo	6					6	3	5	Good	RT, SB, RP	2.5	City of Mississauga	Yes	Yes
326	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	Fair	2.4	City of Mississauga	Yes	Yes
327	Spruce - White	Picea glauca	13					13	3	0	Good	LT, SF, DC	2.5	City of Mississauga	Yes	Yes
328	Spruce - White	Picea glauca	13					13	3	5	Good	SF, DC	2.5	City of Mississauga	Yes	Yes
329	Spruce - White	Picea glauca	14					14	4	0	Good	DC, SF	3	City of Mississauga	Yes	Yes
330	Maple - Manitoba	Acer negundo	6	5				8	2	10	Fair	TK2, SB, ML, FK@3M, RP, RT	2.4	City of Mississauga	Yes	Yes
331	Spruce - White	Picea glauca	12					12	3	15	Good	SL, PP, WNC, LS	2.5	City of Mississauga	Yes	Yes
332	Spruce - White	Picea glauca	10					10	3	10	Good	DC, SF	2.5	City of Mississauga	Yes	Yes
333	Spruce - White	Picea glauca	9					9	3	15	Good	LS, 1SD, SF	2.5	City of Mississauga	Yes	Yes
334	Spruce - White	Picea glauca	3					3	1	25	Fair	LS, PL, DW, RP	2.4	City of Mississauga	Yes	Yes
335	Spruce - White	Picea glauca	5					5	2	10	Fair	DC, SF, LS, PL	2.4	City of Mississauga	Yes	Yes
336	Spruce - White	Picea glauca	6					6	2	25	Fair	LS, PL, CD	2.4	City of Mississauga	Yes	Yes
337	Maple - Manitoba	Acer negundo	13					13	4	10	Good	ER, FK@3M, ML, RP	3	City of Mississauga	Yes	Yes
338	Spruce - White	Picea glauca	6					6	2	15	Fair	LS, DC, FS, SF	2.4	City of Mississauga	Yes	Yes
339	Maple - Norway	Acer platanoides	25					25	9	10	Good	CS, 1SD, UC, PP	5.5	City of Mississauga	Yes	Yes
340	Cedar - Eastern-White	Thuja occidentalis	5	4				6	1	10	Fair	TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
341	Apple sp.	Malus sp.	15	15	10			23	4	30	Fair	LS, SC, MB, CT, TK3, DW	3.6	City of Mississauga	Yes	Yes
342	Alder - European	Alnus glutinosa	7					7	2	20	Fair	CT, SL, DE (canker)	2.4	City of Mississauga	Yes	Yes
343	Maple - Norway	Acer platanoides	18					18	8	10	Good	LT, SN, SF	5	City of Mississauga	Yes	Yes
344	Maple - Norway	Acer platanoides	12					12	3	20	Fair	LS, SL, FK2@5M, IB	2.5	City of Mississauga	Yes	Yes
345	Walnut - Black	Juglans nigra	16					16	5	25	Fair	LN (L), CT, FK@6M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
346	Maple - Norway	Acer platanoides	12					12	3	100	Dead	GTF, Dead	0	City of Mississauga	Yes	Yes
347	Maple - Manitoba	Acer negundo	18					18	4	15	Good	TOB, LN (L), CT, 1SD	3	City of Mississauga	Yes	Yes
348	Walnut - Black	Juglans nigra	3					3	2	25	Fair	SP, SL, LS, CT	2.4	City of Mississauga	Yes	Yes
349	Maple - Norway	Acer platanoides	23	4				23	7	10	Good	1SS, UC, ER, TK2, RT	4.5	City of Mississauga	Yes	Yes
350	Maple - Norway	Acer platanoides	12	11	8			18	4	20	Good	TK3, TOB, SL, RP, RT	3	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
281	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 3 Study Area	NA	NA	1469.26	No
282	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 3 Study Area	NA	NA	1366.42	No
283	Walnut - Black	Juglans nigra	Remove	Alternative 3 Impact Area	1	1	315.91	Yes
284	Pine - Eastern White	Pinus strobus	Protect - Injury	Alternative 3 Study Area	NA	NA	1576.88	No
285	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	506.89	Yes
286	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	340.94	Yes
287	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	190.87	Yes
288	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	506.89	Yes
289	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	86.88	Yes
290	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	547.54	Yes
291	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	471.01	Yes
292	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	86.88	Yes
293	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	506.89	Yes
294	Pine - Eastern White	Pinus strobus	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	53.61	No
295	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	1366.42	No
296	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	105.67	Yes
297	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	1175.08	No
298	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	842.11	No
299	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	982.98	No
300	Pine - Eastern White	Pinus strobus	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	910.69	No
301	Maple - Norway	Acer platanoides	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	4917.67	No
302	Elm - Siberian	Ulmus pumila	Remove	Alternative 3 Impact Area	1	1	165.03	Yes
303	Olive - Russian	Elaeagnus angustifolia	Remove	Alternative 3 Impact Area	5	40	8717.27	Yes
304	Ash - White	Fraxinus americana	Remove	Alternative 3 Impact Area	1	1	245.97	Yes
305	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	1	114.75	Yes
306	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	131.96	Yes
307	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	330.23	Yes
308	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	117.88	Yes
309	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	3	442.92	Yes
310	Walnut - Black	Juglans nigra	Remove	Alternative 3 Impact Area	NA	1	271.20	Yes
311	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	1	66.54	Yes
312	Maple - Sugar	Acer saccharum	Remove	Alternative 3 Impact Area	1	3	849.32	Yes
313	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	297.51	Yes
314	Maple - Sugar	Acer saccharum	Remove	Alternative 3 Impact Area	1	3	721.64	Yes
315	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	117.88	Yes
316	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	850.07	Yes
317	Maple - Sugar	Acer saccharum	Remove	Alternative 3 Impact Area	1	3	849.32	Yes
318	Maple - Sugar	Acer saccharum	Remove	Alternative 3 Impact Area	1	3	849.32	Yes
319	Spruce - Colorado	Picea pungens	Remove	Alternative 3 Impact Area	3	15	3014.36	Yes
320	Maple - Sugar	Acer saccharum	Remove	Alternative 3 Impact Area	1	3	783.03	Yes
321	Maple - Sugar	Acer saccharum	Remove	Alternative 3 Impact Area	1	3	920.53	Yes
322	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	105.67	Yes
323	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	2029.33	Yes
324	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	95.34	Yes
325	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	136.34	Yes
326	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	86.88	Yes
327	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	758.01	Yes
328	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	758.01	Yes
329	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	822.58	Yes
330	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	131.96	Yes
331	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	3	698.22	Yes
332	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	592.99	Yes
333	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	547.54	Yes
334	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	NA	1	290.89	Yes
335	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	NA	1	320.55	Yes
336	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	340.94	Yes
337	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	297.51	Yes
338	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	1	1	340.94	Yes
339	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1684.55	Yes
340	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	208.92	Yes
341	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	2	10	920.51	Yes
342	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	225.00	Yes
343	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1031.85	Yes
344	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	3	497.19	Yes
345	Walnut - Black	Juglans nigra	Remove	Alternative 3 Impact Area	2	3	680.19	Yes
346	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	80.19	Yes
347	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	3	485.33	Yes
348	Walnut - Black	Juglans nigra	Remove	Alternative 3 Impact Area	NA	1	271.20	Yes
349	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1476.38	Yes
350	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1031.85	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
351	Maple - Manitoba	Acer negundo	17	14				22	0	100	Dead	TK2, BOB, CT, DW, PB, RM	0	City of Mississauga	Yes	Yes
352	Maple - Silver	Acer saccharinum	6	4				7	4	20	Poor	TK2, ER, RH, SL, LNL, growing out of rip rap	3	City of Mississauga	Yes	Yes
353	Maple - Norway	Acer platanoides	32					32	10	15	Good	BOB, GTF, MB, SN, RP	6	City of Mississauga	Yes	Yes
354	Maple - Norway	Acer platanoides	34					34	11	10	Good	ER, TOB, MB, FS, SN, RP	6.5	Private	Yes	No
355	Maple - Norway	Acer platanoides	23	22				32	11	10	Good	TK2, IB, ER, SN, FS	6.5	City of Mississauga	Yes	Yes
356	Maple - Sugar	Acer saccharum	27					27	6	35	Fair	FK@4M, TOB, SL, RH, CD, DW, RP	4	Private	Yes	No
357	Spruce - White	Picea glauca	5					5	1	60	Poor	LS, 1SD, CD, UC	2.4	City of Mississauga	Yes	Yes
358	Maple - Norway	Acer platanoides	16					16	4	10	Good	GTF, BOB, FK@6M, ML, RP	3	City of Mississauga	Yes	Yes
359	Maple - Norway	Acer platanoides	14	12				18	5	15	Good	TK2, BOB, GTF, SN	3.5	City of Mississauga	Yes	Yes
360	Maple - Manitoba	Acer negundo	16					16	6	100	Dead	BSD, DW, Dead	0	City of Mississauga	Yes	Yes
361	Cherry - Sweet	Prunus avium	21	18	11	10		31	3	45	Poor	TK4, CD, CS, DW, RP	2.5	Private	Yes	No
362	Maple - Norway	Acer platanoides	6	5				8	4	15	Poor	PF, GTF, TK2, SL, LS, BSD, WNC	3	City of Mississauga	Yes	Yes
363	Maple - Manitoba	Acer negundo	40					40	9	25	Fair	ER, SB, TOB, FK@2M, LN (M), 1SD, UC, DW, RP	5.5	City of Mississauga	Yes	Yes
364	Elm - Siberian	Ulmus pumila	8					8	4	10	Fair	RB, CT, 1SD, ML, RP	3	Private	Yes	No
365	Ash - White	Fraxinus americana	3					3	2	35	Fair	SL, LS	2.4	City of Mississauga	Yes	Yes
366	Ash - White	Fraxinus americana	18					18	0	100	Dead	EAB, DW, SN, RM	0	City of Mississauga	Yes	Yes
367	Maple - Silver	Acer saccharinum	53	44				69	18	20	Good	TK2, IB, SC, SN, DW, DC, RP, RT	10	City of Mississauga	Yes	Yes
368	Elm - Siberian	Ulmus pumila	31					31	6	25	Fair	1SD, NST, SN, CD	4	Private	Yes	No
369	Maple - Manitoba	Acer negundo	3	2	2	2	2	5	2	20	Poor	RFS, TK5, DW, RT	2.4	City of Mississauga	Yes	Yes
370	Elm - Siberian	Ulmus pumila	8					8	2	50	Poor	TOB, LN(L), 1SD	2	Private	Yes	No
371	Maple - Norway	Acer platanoides	4					4	1	20	Fair	SL, LS, CT	1.5	Private	Yes	No
372	Ash - White	Fraxinus americana	4					4	0	100	Dead	DW, RM	0	Private	Yes	No
373	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
374	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
375	Elm - Siberian	Ulmus pumila	23					23	6	20	Fair	LN (M), CT, DW, SL, RP	4	Private	Yes	No
376	Maple - Norway	Acer platanoides	15	16				22	10	10	Good	TK2, TD, WNC, SN, PP, UC, 1SD	6	City of Mississauga	Yes	Yes
377	Spruce - White	Picea glauca	19					19	6	15	Good	LS, PP, WC,	4	City of Mississauga	Yes	Yes
378	Maple - Manitoba	Acer negundo	31					31	8	10	Good	MOB, LN(L), DE, CT, PF, RP	5	Private	Yes	No
379	Maple - Silver	Acer saccharinum	27	38	24			52	16	15	Good	TK3, DC, BR1, PP, WNC, DW	9	City of Mississauga	Yes	Yes
380	Ash - White	Fraxinus americana	4	3				5	1	25	Fair	TK2, SL, RT	1.5	Private	Yes	No
381	Maple - Manitoba	Acer negundo	30	11	10	10		35	11	40	Fair	TK4, GC, LN (M), CT, DW, 1SD, UC, RP	6.5	Private	Yes	No
382	Maple - Silver	Acer saccharinum	27	48				55	17	10	Good	TK2, FK2@1.5M, DC, CT	9.5	City of Mississauga	Yes	Yes
383	Ash - White	Fraxinus americana	18					18	0	100	Dead	LN (L), EAB, PB, DW, RM	0	Private	Yes	No
384	Apple sp.	Malus sp.	12	7				14	5	15	Good	TK2, LN (L), 1SD, UC, LS, RP	3.5	Private	Yes	No
385	Maple - Silver	Acer saccharinum	73					73	20	10	Good	FK2@1.4M, IB, SC, MB, FS, RP, PP, WNC, SN	11	City of Mississauga	Yes	Yes
386	Ash - White	Fraxinus americana	3	2				4	0	100	Dead	TK2, DW, RM	0	Private	Yes	No
387	Maple - Manitoba	Acer negundo	44					44	13	15	Fair	TT, CV, LN (L), CT, 1SD, UC, SB, SC, FS, PF, RP	7.5	Private	Yes	No
388	Maple - Silver	Acer saccharinum	49					49	16	15	Good	TW, WNC, SC, LNL, UC, RP	9	City of Mississauga	Yes	Yes
389	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, PB, DW, RM	0	Private	Yes	No
390	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, TK2, DW, Topped	0	Private	Yes	No
391	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
392	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
393	Maple - Manitoba	Acer negundo	16					16	4	40	Poor	CT, LN (L), DW, LS, SL	3	Private	Yes	No
394	Ash - White	Fraxinus americana	3					3	1	15	Fair	SP, SL, LS	1.5	Private	Yes	No
395	Spruce - White	Picea glauca	19					19	3	100	Dead	LS, DW, PB	0	Private	Yes	No
396	Ash - White	Fraxinus americana	5	4	3			7	3	30	Fair	TK3, EAB, SL, RM	2.5	Private	Yes	No
397	Spruce - White	Picea glauca	33					33	5	15	Good	ER, CT, UC, DW	4.8	City of Mississauga	Yes	Yes
398	Maple - Manitoba	Acer negundo	30	29				42	13	35	Poor	TK2, LN (H), DW, MB, CT, FS, RP	7.5	Private	Yes	No
399	Maple - Norway	Acer platanoides	9	4				10	6	10	Fair	TK2, TOB, ER, LS, SF, RT	4	Private	Yes	No
400	Ash - Green	Fraxinus pennsylvanica	3	2				4	1	10	Good	TK2, LS	2.4	City of Mississauga	Yes	Yes
401	Ash - White	Fraxinus americana	20					20	0	100	Dead	EAB, DW, MB, RM	0	Private	Yes	No
402	Maple - Norway	Acer platanoides	11					11	5	10	Good	BOB, LS, UC, DW	3.5	Private	Yes	No
403	Maple - Manitoba	Acer negundo	41					41	14	25	Fair	LN (L), FK@2M, DE, 1SD	8	Private	Yes	No
404	Maple - Norway	Acer platanoides	9	3				9	3	15	Good	BOB, SL, UC, TK2	2.5	Private	Yes	No
405	Maple - Norway	Acer platanoides	7					7	3	15	Fair	MOB, LS, SF	2.5	Private	Yes	No
406	Maple - Manitoba	Acer negundo	15					15	3	60	Poor	LN (H), DW, CD, RM	2.5	Private	Yes	No
407	Maple - Norway	Acer platanoides	3	2	2			4	3	10	Fair	TK3, LS, RT	2.5	Private	Yes	No
408	Maple - Norway	Acer platanoides	7	5				9	4	15	Fair	TK2, RT, UC, FS, RP, LS, TW, WC	3	City of Mississauga	Yes	Yes
409	Ash - White	Fraxinus americana	27					27	0	100	Fair	EAB, DW, BOB, DW, RM	3.6	City of Mississauga	Yes	Yes
410	Ash - White	Fraxinus americana	7					7	0	100	Dead	LN (M), BOB, ER, DW, RM	0	City of Mississauga	Yes	Yes
411	Ash - White	Fraxinus americana	12	12				17	4	100	Dead	RPM, TK2, PB, DW, fallen into creek	0	City of Mississauga	Yes	Yes
412	Cedar - Eastern-White	Thuja occidentalis	4	4				6	1	15	Fair	TK2, LS, DC	2.4	City of Mississauga	Yes	Yes
413	Cedar - Eastern-White	Thuja occidentalis	4	3				5	1	10	Good	LS, TK2, RT	2.4	City of Mississauga	Yes	Yes
414	Cedar - Eastern-White	Thuja occidentalis	5					5	1	10	Fair	DC, SF, PP	2.4	City of Mississauga	Yes	Yes
415	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	1	10	Good	TK4, LS, DC	2.4	City of Mississauga	Yes	Yes
416	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	15	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
417	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	10	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
418	Cedar - Eastern-White	Thuja occidentalis	4	4	3	3	2	7	2	10	Good	TK6, LS	2.4	City of Mississauga	Yes	Yes
419	Cedar - Eastern-White	Thuja occidentalis	3	1				3	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
420	Cedar - Eastern-White	Thuja occidentalis	4	3				5	2	5	Good	TK2, DC, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
351	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	84.90	Yes
352	Maple - Silver	Acer saccharinum	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	1	158.30	Yes
353	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	3	15	2549.75	Yes
354	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 3 Study Area	NA	NA	2835.98	No
355	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	3	15	2549.75	Yes
356	Maple - Sugar	Acer saccharum	Protect	Alternative 3 Study Area	NA	NA	1672.50	No
357	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	1	180.96	Yes
358	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	884.40	Yes
359	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1031.85	Yes
360	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	50.37	Yes
361	Cherry - Sweet	Prunus avium	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	15	882.19	No
362	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	1	204.78	Yes
363	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1574.45	Yes
364	Elm - Siberian	Ulmus pumila	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	192.02	No
365	Ash - White	Fraxinus americana	Remove	Alternative 3 Impact Area	NA	1	174.80	Yes
366	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	118.60	Yes
367	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	5	40	9377.37	Yes
368	Elm - Siberian	Ulmus pumila	Protect - Injury	Alternative 3 Study Area	NA	NA	1056.57	No
369	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	1	53.82	Yes
370	Elm - Siberian	Ulmus pumila	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	1	108.40	No
371	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	282.08	No
372	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	30.20	No
373	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	2	3	1015.62	Yes
374	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	2	3	1015.62	Yes
375	Elm - Siberian	Ulmus pumila	Protect - Injury	Alternative 3 Study Area	NA	NA	640.20	No
376	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1378.80	Yes
377	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	2	3	1217.20	Yes
378	Maple - Manitoba	Acer negundo	Protect	Alternative 3 Study Area	NA	NA	1257.23	No
379	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	4	30	5441.68	Yes
380	Ash - White	Fraxinus americana	Protect	Alternative 3 Study Area	NA	NA	203.27	No
381	Maple - Manitoba	Acer negundo	Protect - Injury	Alternative 3 Study Area	NA	NA	1222.28	No
382	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	4	30	6055.86	Yes
383	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	118.60	No
384	Apple sp.	Malus sp.	Protect	Alternative 3 Study Area	NA	NA	582.48	No
385	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	5	50	10464.14	Yes
386	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	30.20	No
387	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	1889.99	No
388	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	4	20	4861.95	Yes
389	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	48.86	No
390	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	48.86	No
391	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	2	10	1091.62	Yes
392	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	2	10	1091.62	Yes
393	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	3	176.28	No
394	Ash - White	Fraxinus americana	Protect	Alternative 3 Study Area	NA	NA	174.80	No
395	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	152.15	No
396	Ash - White	Fraxinus americana	Protect	Alternative 3 Study Area	NA	NA	245.97	No
397	Spruce - White	Picea glauca	Remove	Alternative 3 Impact Area	3	15	2958.32	Yes
398	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	20	975.75	No
399	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	423.25	No
400	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 3 Impact Area	NA	1	219.71	Yes
401	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	140.41	No
402	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 3 Study Area	NA	NA	591.66	No
403	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	1650.52	No
404	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 3 Study Area	NA	NA	504.93	No
405	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	337.54	No
406	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	3	159.85	No
407	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	282.08	No
408	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	391.32	Yes
409	Ash - White	Fraxinus americana	Protect	Alternative 3 Study Area	NA	NA	1455.96	No
410	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	39.67	Yes
411	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Study Area	NA	NA	108.55	Yes
412	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	208.92	Yes
413	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	244.31	Yes
414	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	189.34	Yes
415	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	269.57	Yes
416	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
417	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
418	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	299.42	Yes
419	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	160.87	Yes
420	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	244.31	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
421	Cedar - Eastern-White	Thuja occidentalis	5					5	2	10	Fair	TK2, FS, RP	2.4	City of Mississauga	Yes	Yes
422	Cedar - Eastern-White	Thuja occidentalis	5	5				7	2	25	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
423	Cedar - Eastern-White	Thuja occidentalis	4	4	4	3		8	2	10	Good	TK4, LS	2.4	City of Mississauga	Yes	Yes
424	Cedar - Eastern-White	Thuja occidentalis	3	2	1			4	1	25	Fair	TK3, ML, RP	2.4	City of Mississauga	Yes	Yes
425	Cedar - Eastern-White	Thuja occidentalis	5	3	2			6	1	5	Good	LS, TK3	2.4	City of Mississauga	Yes	Yes
426	Cedar - Eastern-White	Thuja occidentalis	3	2				4	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
427	Cedar - Eastern-White	Thuja occidentalis	5					5	2	30	Fair	SF, LS	2.4	City of Mississauga	Yes	Yes
428	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	1	10	Good	LS, FS, TK5	2.4	City of Mississauga	Yes	Yes
429	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	1	6	2	15	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
430	Cedar - Eastern-White	Thuja occidentalis	3	2	2	1		4	1	15	Fair	TK4, LS, FS, RP	2.4	City of Mississauga	Yes	Yes
431	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2	2	5	1	10	Fair	TK6, FS, LS	2.4	City of Mississauga	Yes	Yes
432	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2		5	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
433	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	2	30	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
434	Cedar - Eastern-White	Thuja occidentalis	3	3	3	2		6	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
435	Cedar - Eastern-White	Thuja occidentalis	4	4				6	3	15	Fair	TK2, DC, RP	2.5	City of Mississauga	Yes	Yes
436	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	2	10	Fair	TK4, DC, RP	2.4	City of Mississauga	Yes	Yes
437	Cedar - Eastern-White	Thuja occidentalis	3	3				4	1	15	Good	LS, TK2, FS, MB	2.4	City of Mississauga	Yes	Yes
438	Cedar - Eastern-White	Thuja occidentalis	4	3	3	3		7	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga	Yes	Yes
439	Cedar - Eastern-White	Thuja occidentalis	4	3	3			6	2	10	Good	TK3, ML, LS, FS	2.4	City of Mississauga	Yes	Yes
440	Maple - Norway	Acer platanoides	34					34	6	25	Fair	PP, 1SD, UC, FK@4M	4	Private	Yes	No
441	Spruce - Colorado	Picea pungens	17					17	2	85	Poor	CD, DW, SL, PP, RM	2	City of Mississauga (Road ROW)	Yes	No
442	Maple - Manitoba	Acer negundo	4	4				6	2	5	Good	LT, TK2	2	Private	Yes	No
443	Walnut - Black	Juglans nigra	11					11	5	15	Good	CS, MB, ML, RP	3.5	Private	Yes	No
444	Spruce - Colorado	Picea pungens	30					30	8	25	Fair	CD, DW, DC, SF	5	Private	Yes	No
445	Alder - European	Alnus glutinosa	7					7	3	25	Good	LNM, DW, BR1, SB	2.5	City of Mississauga	Yes	Yes
446	Alder - European	Alnus glutinosa	8	3				9	2	30	Good	TK2, SL, DW	2.4	City of Mississauga	Yes	Yes
447	Maple - Silver	Acer saccharinum	7	5	3			9	3	10	Fair	TK3, RH, FS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
448	Alder - European	Alnus glutinosa	11	9				14	4	10	Good	TK2, SL, SF, RT	3	City of Mississauga	Yes	Yes
449	Maple - Manitoba	Acer negundo	9					9	2	20	Good	SL, LS, DW	2.4	City of Mississauga	Yes	Yes
450	Maple - Manitoba	Acer negundo	13	10	9	9		21	7	10	Good	TK4, MB, ML, RP, RT	4.5	City of Mississauga	Yes	Yes
451	Maple - Manitoba	Acer negundo	15	10				18	6	25	Fair	MB, RP, DW	4	City of Mississauga	Yes	Yes
452	Maple - Manitoba	Acer negundo	9	7				11	5	20	Good	MB, RT, RP, DW, CT, SB	3.5	City of Mississauga	Yes	Yes
453	Maple - Silver	Acer saccharinum	14	13	12			23	5	5	Good	TK3, SB, FS, SN, CT, ML, RP	3.6	City of Mississauga	Yes	Yes
454	Alder - European	Alnus glutinosa	9					9	2	15	Good	SL, SF, DE (canker)	2.4	City of Mississauga	Yes	Yes
455	Alder - European	Alnus glutinosa	7					7	1	25	Good	DE, SL, LS, DW	2.4	City of Mississauga	Yes	Yes
456	Maple - Manitoba	Acer negundo	9	7				11	4	15	Fair	TK2, SL, CT, DW, RT	3	City of Mississauga	Yes	Yes
457	Maple - Manitoba	Acer negundo	8	8	7	6		15	7	15	Good	TK4, UC, RT, RP, TD, MB	4.5	City of Mississauga	Yes	Yes
458	Maple - Silver	Acer saccharinum	17					17	4	10	Good	FK@2M, SL, RP	3	City of Mississauga	Yes	Yes
459	Alder - European	Alnus glutinosa	10	9	5			14	5	15	Good	TK3, DW, DE, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
460	Maple - Manitoba	Acer negundo	24					24	6	10	Good	LN (L), FK@3M, DW, RP	4	City of Mississauga	Yes	Yes
461	Maple - Manitoba	Acer negundo	5	5	7	5	4	12	8	20	Good	RT, TK8, LS, MB, CT	5	City of Mississauga	Yes	Yes
462	Alder - European	Alnus glutinosa	12					12	2	20	Good	DE, DW	2.4	City of Mississauga	Yes	Yes
463	Maple - Manitoba	Acer negundo	24					24	6	15	Good	LN (L), CT, TT, DW, 1SD, RP	4	City of Mississauga	Yes	Yes
464	Maple - Manitoba	Acer negundo	21					21	6	10	Good	LN (L), FK@4M, DW, FS, RP	4	City of Mississauga	Yes	Yes
465	Alder - European	Alnus glutinosa	10					10	3	30	Good	DW, SL	2.5	City of Mississauga	Yes	Yes
466	Maple - Manitoba	Acer negundo	4	4				6	2	20	Good	LS, RT, TK2, CT	2.4	City of Mississauga	Yes	Yes
467	Maple - Silver	Acer saccharinum	9					9	3	15	Fair	LN (L), CT, 1SD, LD	2.5	City of Mississauga	Yes	Yes
468	Alder - European	Alnus glutinosa	12					12	2	60	Fair	DE (canker), DW, CD, SL	2.4	City of Mississauga	Yes	Yes
469	Alder - European	Alnus glutinosa	8	5				9	3	30	Fair	TK2, DE, LN (L), 1SD, RP	2.5	City of Mississauga	Yes	Yes
470	Alder - European	Alnus glutinosa	7					7	2	30	Fair	SL, SF, DE	2.4	City of Mississauga	Yes	Yes
471	Maple - Freeman	Acer x freemanii	19					19	5	10	Good	SB, FK2@2M, RP, MB	3.5	City of Mississauga	Yes	Yes
472	Alder - European	Alnus glutinosa	11					11	3	15	Good	SF, SL, DE	2.5	City of Mississauga	Yes	Yes
473	Maple - Manitoba	Acer negundo	5					5	2	10	Good	LS, CT, SL	2.4	City of Mississauga	Yes	Yes
474	Maple - Freeman	Acer x freemanii	17					17	4	10	Good	TK2, RH, FS, BR1, SL, RP	3	City of Mississauga	Yes	Yes
475	Alder - European	Alnus glutinosa	5	4	4			8	2	40	Good	TK3, RT, DW	2.4	City of Mississauga	Yes	Yes
476	Alder - European	Alnus glutinosa	9	7				11	3	15	Good	TK2, SF, SL, DE, RT	2.5	City of Mississauga	Yes	Yes
477	Alder - European	Alnus glutinosa	8					8	3	30	Fair	DW, DE, SL	2.5	City of Mississauga	Yes	Yes
478	Alder - European	Alnus glutinosa	6	6	5	5		11	5	25	Good	DE, DW, TD, RT, WNC	3.5	City of Mississauga	Yes	Yes
479	Maple - Freeman	Acer x freemanii	16					16	4	5	Good	FK@2M, FK@5M, 1SD, SL, RP	3	City of Mississauga	Yes	Yes
480	Maple - Manitoba	Acer negundo	5	4	3	3		8	4	20	Good	TK4, RT, LS, DW	3	City of Mississauga	Yes	Yes
481	Maple - Manitoba	Acer negundo	25	21				33	11	10	Good	TK2, IB, DW, ER, FK@4M, 1SD, DC, RP	6.5	City of Mississauga	Yes	Yes
482	Alder - European	Alnus glutinosa	13	7	6	3		16	5	30	Good	DE, TK4, RT, DW	3.5	City of Mississauga	Yes	Yes
483	Maple - Manitoba	Acer negundo	3	3	5			7	3	20	Good	TK3, RT, LS, CT	2.5	City of Mississauga	Yes	Yes
484	Alder - European	Alnus glutinosa	7					7	2	10	Fair	SL, 1SD, DE	2.4	City of Mississauga	Yes	Yes
485	Alder - European	Alnus glutinosa	7	7	3	4		11	5	20	Good	TK4, RT, DE, DW, SL	3.5	City of Mississauga	Yes	Yes
486	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
487	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
488	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
489	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
490	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
421	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	189.34	Yes
422	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	232.05	Yes
423	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	333.86	Yes
424	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
425	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	269.57	Yes
426	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
427	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	189.34	Yes
428	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	269.57	Yes
429	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	208.92	Yes
430	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
431	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	189.34	Yes
432	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	244.31	Yes
433	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	208.92	Yes
434	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	269.57	Yes
435	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	208.92	Yes
436	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	208.92	Yes
437	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	223.65	Yes
438	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	232.05	Yes
439	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	1	1	269.57	Yes
440	Maple - Norway	Acer platanoides	Protect	Alternative 3 Study Area	NA	NA	2197.89	No
441	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	470.55	No
442	Maple - Manitoba	Acer negundo	Protect	Alternative 3 Study Area	NA	NA	136.34	No
443	Walnut - Black	Juglans nigra	Protect	Outside Alternative 3 Study Area	NA	NA	589.23	No
444	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 3 Study Area	NA	NA	1981.14	No
445	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	290.32	Yes
446	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	337.26	Yes
447	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	1	1	327.87	Yes
448	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	505.95	Yes
449	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	190.87	Yes
450	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	627.11	Yes
451	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	3	376.13	Yes
452	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	239.34	Yes
453	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	2	10	1280.22	Yes
454	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	337.26	Yes
455	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	290.32	Yes
456	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	185.49	Yes
457	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	365.37	Yes
458	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	2	3	821.03	Yes
459	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	505.95	Yes
460	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	790.70	Yes
461	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	267.21	Yes
462	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	429.68	Yes
463	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	790.70	Yes
464	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	627.11	Yes
465	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	365.13	Yes
466	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	136.34	Yes
467	Maple - Silver	Acer saccharinum	Remove	Alternative 3 Impact Area	1	1	327.87	Yes
468	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	333.00	Yes
469	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	261.38	Yes
470	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	225.00	Yes
471	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	2	3	1058.97	Yes
472	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	395.94	Yes
473	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	123.01	Yes
474	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	2	3	909.73	Yes
475	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	312.33	Yes
476	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	395.94	Yes
477	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	242.05	Yes
478	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	395.94	Yes
479	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	2	3	841.33	Yes
480	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	170.27	Yes
481	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1412.33	Yes
482	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	2	3	593.97	Yes
483	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	152.10	Yes
484	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	225.00	Yes
485	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	395.94	Yes
486	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	2	3	909.73	Yes
487	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	365.13	Yes
488	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	2	3	909.73	Yes
489	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	365.13	Yes
490	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	365.13	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
491	Alder - European	Alnus glutinosa	7	6	5	5	3	12	6	20	Good	TK7, RT, BSD, DE, DW	4	City of Mississauga	Yes	Yes
492	Maple - Freeman	Acer x freemanii	6	2				6	3	25	Fair	TK2, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
493	Alder - European	Alnus glutinosa	6	4	6			9	5	5	Good	TK3, RT, DE, DW	3.5	City of Mississauga	Yes	Yes
494	Maple - Freeman	Acer x freemanii	8					8	2	5	Fair	SL, SF, ML, RP	2.4	City of Mississauga	Yes	Yes
495	Maple - Manitoba	Acer negundo	9					9	5	10	Fair	BOB, CT, SB, ST, FK@4M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
496	Maple - Manitoba	Acer negundo	21	17				27	9	25	Good	TK2, IB, PF, WNC, PP, SC, MB, RP	5.5	City of Mississauga	Yes	Yes
497	Ash - Green	Fraxinus pennsylvanica	5	4				6	0	100	Dead	TK2, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
498	Ash - Green	Fraxinus pennsylvanica	14					14	4	50	Poor	EAB, AD, SF, CD, RM	3	City of Mississauga	Yes	Yes
499	Apple sp.	Malus sp.	12	9				15	3	25	Fair	TK2, BOB, SC, DW, MB, FS, RP	2.5	City of Mississauga	Yes	Yes
500	Maple - Manitoba	Acer negundo	3					3	2	35	Fair	BOB, LN (M), LS, CT	2.4	City of Mississauga	Yes	Yes
501	Maple - Manitoba	Acer negundo	15					15	5	20	Fair	FS, SB, LNM, UC	3.5	City of Mississauga	Yes	Yes
502	Ash - White	Fraxinus americana	14	12	12			22	5	100	Dead	PB, FS, DW, BSD	0	City of Mississauga	Yes	Yes
503	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
504	Ash - White	Fraxinus americana	14	13				19	6	100	Dead	PB, DW, VC, ER	0	City of Mississauga	Yes	Yes
505	Hawthorn sp.	Crataegus sp.	7					7	3	30	Fair	DW, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
506	Hawthorn sp.	Crataegus sp.	16	8	7	6	6	21	6	20	Fair	TK5, FS, FK@2M, RP, RT	4	City of Mississauga	Yes	Yes
507	Apple sp.	Malus sp.	22	16	16			32	5	40	Fair	TK3, LNM, 1SD, UC, ER, DW	4.8	City of Mississauga	Yes	Yes
508	Maple - Manitoba	Acer negundo	30					30	8	15	Fair	LN (H), MOB, FS, ST, RP	5	City of Mississauga	Yes	Yes
509	Ash - White	Fraxinus americana	26					26	5	100	Dead	ER, BSD, CT, DW, PB	0	City of Mississauga	Yes	Yes
510	Apple sp.	Malus sp.	14					14	5	25	Fair	BOB, LN (M), SB, CT, SC, DW, RP	3.5	City of Mississauga	Yes	Yes
511	Ash - Green	Fraxinus pennsylvanica	23					23	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
512	Hawthorn sp.	Crataegus sp.	15	11	10	7	7	23	4	25	Fair	TK5, FS, CT, DW, RP, RT	3.6	City of Mississauga	Yes	Yes
513	Hawthorn sp.	Crataegus sp.	18	7	8	13	6	25	7	30	Fair	CT, TK4, UC, MB, DW, LS	4.5	City of Mississauga	Yes	Yes
514	Ash - White	Fraxinus americana	14	8				16	6	80	Poor	CD, PB, DW, LNM, TK2, LS	4	City of Mississauga	Yes	Yes
515	Serviceberry sp.	Amelanchier sp.	11	9	5	4		16	4	10	Good	TK4, FS, 1SD, UC, LS, RP	3	City of Mississauga	Yes	Yes
516	Ash - Black	Fraxinus nigra	13					13	0	100	Dead	BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
517	Ash - Green	Fraxinus pennsylvanica	20					20	8	75	Poor	BSD, TD, PB, DW, ER	5	City of Mississauga	Yes	Yes
518	Maple - Manitoba	Acer negundo	6	5				8	3	15	Fair	TK2, BOB, SL, RT	2.5	City of Mississauga	Yes	Yes
519	Ash - Black	Fraxinus nigra	6					6	1	100	Dead	SB, DW, PB, ER	0	City of Mississauga	Yes	Yes
520	Hawthorn sp.	Crataegus sp.	13	12	9	8	6	22	5	20	Fair	TK5, FS, CT, LS, RP	3.6	City of Mississauga	Yes	Yes
521	Hawthorn sp.	Crataegus sp.	5	3				6	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
522	Cherry - Sweet	Prunus avium	6					6	3	25	Fair	LN (L), 1SD, CT, LS	2.5	City of Mississauga	Yes	Yes
523	Hawthorn sp.	Crataegus sp.	22	21	21	14	6	40	9	35	Fair	TK8, MB, FS, IB, RP, DW, ER	5.5	City of Mississauga	Yes	Yes
524	Maple - Norway	Acer platanoides	9					9	4	15	Fair	SL, FS, RT, LS, UC	3	City of Mississauga	Yes	Yes
525	Maple - Norway	Acer platanoides	14	13	12	9	7	25	6	5	Good	TK5, MOB, FS, 1SD, RP	4	City of Mississauga	Yes	Yes
526	Maple - Norway	Acer platanoides	12	9	8	7	4	19	5	15	Good	TK5, BOB, ER, FS, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
527	Hawthorn sp.	Crataegus sp.	16	7				17	5	40	Fair	TK2, DW, ER, FK2@2M, PB, RP	3.5	City of Mississauga	Yes	Yes
528	Maple - Norway	Acer platanoides	11					11	4	10	Good	TOB, 1SD, FK@3M, UC, RP	3	City of Mississauga	Yes	Yes
529	Maple - Norway	Acer platanoides	14					14	5	30	Fair	DW, ER, FS, SL,	3.5	City of Mississauga	Yes	Yes
530	Maple - Norway	Acer platanoides	11	11	9	8	6	21	7	10	Good	TK6, BOB, FS, DW, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
531	Maple - Norway	Acer platanoides	22					22	6	10	Good	LN (L), 1SD, FK@3M, SN2	4	City of Mississauga	Yes	Yes
532	Maple - Manitoba	Acer negundo	26					26	0	100	Dead	LN (H), CT, PB, DW, RM	0	City of Mississauga	Yes	Yes
533	Hawthorn sp.	Crataegus sp.	8	7				11	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
534	Hawthorn sp.	Crataegus sp.	17	13	10			24	5	15	Good	TK3, PP, ST, SC, RP	3.6	City of Mississauga	Yes	Yes
535	Hawthorn sp.	Crataegus sp.	19	17	16	16	9	35	7	10	Good	TK5, FS, ML, ST, RP	4.8	City of Mississauga	Yes	Yes
536	Hawthorn sp.	Crataegus sp.	14	13	11	10	9	26	4	35	Fair	TK6, CT, 1SD, UC, LS, RP	3.6	City of Mississauga (Park)	Yes	Yes
537	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, ML, RP	2.4	City of Mississauga	Yes	Yes
538	Maple - Manitoba	Acer negundo	33					33	11	10	Good	SB, TW, WNC, LN (L), FK@3M, DC, RP	6.5	City of Mississauga (Park)	Yes	Yes
539	Maple - Norway	Acer platanoides	5					5	2	15	Fair	SP, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
540	Hawthorn sp.	Crataegus sp.	10					10	2	40	Poor	MB, LS, CD	2.4	City of Mississauga	Yes	Yes
541	Apple sp.	Malus sp.	34	31	31	28	14	64	8	20	Fair	TK7, FS, SB, ST, SC, PF, DW, RP	8.4	City of Mississauga	Yes	Yes
542	Hawthorn sp.	Crataegus sp.	19	12				22	5	15	Good	TK2, FS, SN, 1SD, RP	3.6	City of Mississauga	Yes	Yes
543	Ash - White	Fraxinus americana	44	35				56	0	100	Dead	TK2, SB, PF, BC, DW, RM	0	City of Mississauga	Yes	Yes
544	Hawthorn sp.	Crataegus sp.	13	12	10	8		22	0	100	Dead	TK4, PF, BC, RM	0	City of Mississauga	Yes	Yes
545	Maple - Manitoba	Acer negundo	3					3	1	15	Fair	LN(M), LS, 1SD, SP	2.4	City of Mississauga	Yes	Yes
546	Apple sp.	Malus sp.	29	18				34	4	50	Poor	TK2, FS, ST, SC, 1SD, PF, CT, VC, RP	4.8	City of Mississauga	Yes	Yes
547	Maple - Manitoba	Acer negundo	27	24				36	6	10	Good	TK2, BOB, LN (L), PF, FS, RP	4.8	City of Mississauga	Yes	Yes
548	Maple - Manitoba	Acer negundo	24	23				33	8	30	Fair	TK2, LN (M), BSD, WNC, VC, 1SD, CT, UC, RP	5	City of Mississauga	Yes	Yes
549	Maple - Manitoba	Acer negundo	31	16				35	11	30	Fair	LN (H), PF, LG, FK@2M, SB, CT, VC, FS, SC, RP	6.5	City of Mississauga	Yes	Yes
550	Hawthorn sp.	Crataegus sp.	20	15	14			29	5	25	Fair	TK2, MOB, FS, CT, DW, 1SD, RP	3.6	City of Mississauga	Yes	Yes
551	Hawthorn sp.	Crataegus sp.	12	7				14	5	10	Fair	TK2, LN (L), LS, FK@2M	3.5	City of Mississauga	Yes	Yes
552	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN (L), EAB, PB, DW, SB, BOB, RM	0	City of Mississauga	Yes	Yes
553	Hawthorn sp.	Crataegus sp.	8	6	4	4		11	4	30	Fair	TK4, LN (L), BOB, ST, RT	3	City of Mississauga	Yes	Yes
554	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN(L), EAB, SB, DW, RM	0	City of Mississauga	Yes	Yes
555	Maple - Manitoba	Acer negundo	7	6	4	4		11	5	15	Fair	TK4, BOB, LS, SL, RT	3.5	City of Mississauga	Yes	Yes
556	Ash - Green	Fraxinus pennsylvanica	30					30	0	100	Dead	RPM, LG, EAB, DW, RM	0	City of Mississauga	Yes	Yes
557	Hawthorn sp.	Crataegus sp.	20	19				28	4	35	Fair	TK2, MOB, PF, DW, SL, RP	3.6	City of Mississauga	Yes	Yes
558	Hawthorn sp.	Crataegus sp.	18	8	7			21	4	20	Fair	TK3, DW, CT, RP	3.6	City of Mississauga	Yes	Yes
559	Maple - Norway	Acer platanoides	6					6	3	10	Fair	FS, SP, LS	2.5	City of Mississauga	Yes	Yes
560	Maple - Norway	Acer platanoides	5	3				6	2	10	Fair	TK2, TOB, SL, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
491	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	3	429.68	Yes
492	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	1	1	298.62	Yes
493	Alder - European	Alnus glutinosa	Remove	Alternative 3 Impact Area	1	1	337.26	Yes
494	Maple - Freeman	Acer x freemanii	Remove	Alternative 3 Impact Area	1	1	343.60	Yes
495	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	147.93	Yes
496	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	976.10	Yes
497	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	32.88	Yes
498	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	3	266.89	Yes
499	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	1	3	492.27	Yes
500	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	80.31	Yes
501	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	283.16	Yes
502	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	164.52	Yes
503	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	131.55	Yes
504	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	129.22	Yes
505	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	1	1	237.30	Yes
506	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	837.94	Yes
507	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	3	15	1617.81	Yes
508	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	2	10	917.07	Yes
509	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	219.62	Yes
510	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	1	3	451.42	Yes
511	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	166.51	Yes
512	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	972.78	Yes
513	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1119.87	Yes
514	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	2	3	346.79	Yes
515	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 3 Impact Area	2	3	790.51	Yes
516	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	56.89	Yes
517	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	2	3	460.42	Yes
518	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	131.96	Yes
519	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	26.68	Yes
520	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	903.82	Yes
521	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	1	1	217.38	Yes
522	Cherry - Sweet	Prunus avium	Remove	Alternative 3 Impact Area	1	1	213.99	Yes
523	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	15	2613.81	Yes
524	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	391.32	Yes
525	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1684.55	Yes
526	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	3	1112.08	Yes
527	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	3	605.04	Yes
528	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	3	591.66	Yes
529	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	3	584.58	Yes
530	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1285.56	Yes
531	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1378.80	Yes
532	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	113.98	Yes
533	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	56.07	Yes
534	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1348.12	Yes
535	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	15	2631.25	Yes
536	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1198.02	Yes
537	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	270.32	Yes
538	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1412.33	Yes
539	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	297.21	Yes
540	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	1	178.07	Yes
541	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	5	40	5945.27	Yes
542	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1166.23	Yes
543	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	925.63	Yes
544	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	145.78	Yes
545	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	80.31	Yes
546	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	3	15	1018.25	Yes
547	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1663.17	Yes
548	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1094.56	Yes
549	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	3	15	1222.28	Yes
550	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1450.84	Yes
551	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	1	3	462.54	Yes
552	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	131.55	Yes
553	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	1	3	347.62	Yes
554	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	131.55	Yes
555	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	185.49	Yes
556	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	267.07	Yes
557	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1363.50	Yes
558	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	837.94	Yes
559	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	315.69	Yes
560	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	315.69	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
561	Hawthorn sp.	Crataegus sp.	21	16	13	11	6	32	6	20	Fair	TK5, FS, CT, 1SD, LN (L), RP, RT	4.8	City of Mississauga	Yes	Yes
562	Maple - Norway	Acer platanoides	28					28	7	5	Good	DC, SF, SN	4.5	City of Mississauga	Yes	Yes
563	Hawthorn sp.	Crataegus sp.	17	12	9			23	6	15	Fair	TK3, CT, SN, DW, RP	4	City of Mississauga	Yes	Yes
564	Apple sp.	Malus sp.	28	13				31	6	30	Fair	TK2, PF, DW, LN (M), RP	4.8	City of Mississauga	Yes	Yes
565	Maple - Norway	Acer platanoides	5					5	1	10	Fair	MOB, SP, LS	2.4	City of Mississauga	Yes	Yes
566	Hawthorn sp.	Crataegus sp.	19	17	16			30	5	25	Fair	TK3, TW, WNC, DE, FS, CT, RP	3.6	City of Mississauga	Yes	Yes
567	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
568	Maple - Norway	Acer platanoides	7					7	3	10	Fair	CT, SL, LS	2.5	City of Mississauga	Yes	Yes
569	Hawthorn sp.	Crataegus sp.	20	8				22	2	30	Poor	TK2, CT, LN (H), ST, SC	3.6	City of Mississauga	Yes	Yes
570	Maple - Manitoba	Acer negundo	9					9	2	10	Fair	ER, SL, SF	2.4	City of Mississauga	Yes	Yes
571	Hawthorn sp.	Crataegus sp.	20	19	19	18	13	40	9	35	Fair	TK7, FK@2M, TOB, DW, FS, CD, RP	5.5	City of Mississauga	Yes	Yes
572	Hawthorn sp.	Crataegus sp.	24	20	19	19	14	44	7	20	Fair	TK5, MOB, LN (L), 1SD, RP	6	City of Mississauga	Yes	Yes
573	Maple - Norway	Acer platanoides	7	3				8	4	10	Fair	TK2, MOB, SL, LS, RT	3	City of Mississauga	Yes	Yes
574	Maple - Norway	Acer platanoides	8	5				9	3	10	Fair	TK2, SL, SN, RT	2.5	City of Mississauga	Yes	Yes
575	Maple - Norway	Acer platanoides	5	5	4			8	3	10	Fair	TK3, TOB, SL, RT	2.5	City of Mississauga	Yes	Yes
576	Hawthorn sp.	Crataegus sp.	16	14				21	9	10	Good	TK2, GTF, FS, SC, RP	5.5	City of Mississauga (Park)	Yes	Yes
577	Hawthorn sp.	Crataegus sp.	16	15	10	8		25	8	15	Good	TK4, TOB, FS, RP	5	City of Mississauga (Park)	Yes	Yes
578	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
579	Hawthorn sp.	Crataegus sp.	21	13	10	10	8	30	10	35	Fair	TK, MOB, VC, FS, CD, DW, RP	6	City of Mississauga	Yes	Yes
580	Hawthorn sp.	Crataegus sp.	13	12	11	10		23	5	30	Fair	TK4, LN (H), DW, FS, RP	3.6	City of Mississauga	Yes	Yes
581	Maple - Manitoba	Acer negundo	5	5	5	5	4	11	5	10	Fair	TK6, SP, SL, RT	3.5	City of Mississauga	Yes	Yes
582	Maple - Manitoba	Acer negundo	8	6	5	4		12	5	10	Fair	TK4, LN (L), BOB, RT	3.5	City of Mississauga	Yes	Yes
583	Ash - Green	Fraxinus pennsylvanica	12					12	0	100	Dead	RPM, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
584	Maple - Norway	Acer platanoides	4					4	1	10	Good	SP, SL	2.4	City of Mississauga	Yes	Yes
585	Hawthorn sp.	Crataegus sp.	22	17				28	7	10	Fair	TK2, LN (L), FK@3M, FS, 1SD, RP	4.5	City of Mississauga	Yes	Yes
586	Ash - Green	Fraxinus pennsylvanica	3					3	1	10	Fair	SP, BOB	2.4	City of Mississauga	Yes	Yes
587	Maple - Manitoba	Acer negundo	3	3				4	2	5	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
588	Ash - Green	Fraxinus pennsylvanica	14	10				17	0	100	Dead	TK2, LN (H), RPM, EAB, DW, RM	0	City of Mississauga	Yes	Yes
589	Maple - Manitoba	Acer negundo	4					4	2	10	Fair	SL, SML, RP	2.4	City of Mississauga	Yes	Yes
590	Hawthorn sp.	Crataegus sp.	22					22	6	15	Good	FK@3M, LN (L), CT, SC, RP	4	City of Mississauga	Yes	Yes
591	Maple - Manitoba	Acer negundo	3					3	1	10	Fair	SP	2.4	City of Mississauga	Yes	Yes
592	Maple - Norway	Acer platanoides	3	3				4	2	0	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
593	Hawthorn sp.	Crataegus sp.	27	25	23	21	20	52	10	30	Fair	TK6, TT, CT, DW, SC, FS, RP	7.2	City of Mississauga	Yes	Yes
594	Hawthorn sp.	Crataegus sp.	31	28				42	10	15	Good	TK2, TOB, CV, CT, SN, DW, RP	6	City of Mississauga (Park)	Yes	Yes
595	Maple - Norway	Acer platanoides	3	3	3	3		6	4	10	Fair	TK4, SP, SL, RT	3	City of Mississauga	Yes	Yes
596	Maple - Norway	Acer platanoides	4					4	2	10	Fair	TOB, SL, SP, LS	2.4	City of Mississauga	Yes	Yes
597	Hawthorn sp.	Crataegus sp.	38	32	24	23	23	64	14	15	Fair	TK6, LN (H), PF, LG, FK@3M, CT, TT, CV, GTF, ETB, SC, SN, DW, RP	8.4	City of Mississauga	Yes	Yes
598	Maple - Norway	Acer platanoides	21	14				25	7	15	Good	TK2, ER, MOB, FK@3M, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
599	Maple - Norway	Acer platanoides	9					9	5	10	Fair	LN (L), LS, 1SD, ML, RP	3.5	City of Mississauga	Yes	Yes
600	Hawthorn sp.	Crataegus sp.	10					10	3	15	Fair	LN (M), CT, SL	2.5	City of Mississauga	Yes	Yes
601	Apple sp.	Malus sp.	28	27				39	7	25	Fair	TK2, FS, SB, ST, SC, LN (M), 1SD, PF, RP	4.8	City of Mississauga	Yes	Yes
602	Hawthorn sp.	Crataegus sp.	12	11	9			19	3	50	Poor	TK3, LN (L), DW, RP	2.5	City of Mississauga	Yes	Yes
603	Maple - Norway	Acer platanoides	4					4	2	10	Fair	CT, SP, LS	2.4	City of Mississauga	Yes	Yes
604	Hawthorn sp.	Crataegus sp.	11	6				13	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
605	Hawthorn sp.	Crataegus sp.	17	16	9			25	5	15	Good	TK3, BOB, TT, DW, RP	3.6	City of Mississauga	Yes	Yes
606	Hawthorn sp.	Crataegus sp.	15	9				17	4	10	Fair	TK2, VC, LN (M), SC, RP	3	City of Mississauga	Yes	Yes
607	Hawthorn sp.	Crataegus sp.	10					10	1	70	Poor	CT, BOB, DW, RM	2.4	City of Mississauga	Yes	Yes
608	Hawthorn sp.	Crataegus sp.	22	16	15			31	11	15	Good	TK3, FS, RH, FK@2M, LN (L), DW,,RP	6.5	City of Mississauga	Yes	Yes
609	Apple sp.	Malus sp.	10					10	0	100	Dead	BOB, DW, RM	0	City of Mississauga	Yes	Yes
610	Apple sp.	Malus sp.	17	13	10	8	6	26	0	100	Dead	TK8, DW, BOB, RM	0	City of Mississauga	Yes	Yes
611	Maple - Norway	Acer platanoides	5					5	2	15	Fair	BOB, CT, ML, LS	2.4	City of Mississauga	Yes	Yes
612	Maple - Norway	Acer platanoides	3					3	2	10	Fair	SP, BOB, LS	2.4	City of Mississauga	Yes	Yes
613	Maple - Norway	Acer platanoides	3	2				4	1	0	Fair	TK2, CT, LS, RP	2.4	City of Mississauga	Yes	Yes
614	Ash - Green	Fraxinus pennsylvanica	14					14	0	100	Dead	RPM, LN (M), EAB, DW, RM	0	City of Mississauga	Yes	Yes
615	Ash - Green	Fraxinus pennsylvanica	3					3	1	15	Fair	BOB, SP, SL	2.4	City of Mississauga	Yes	Yes
616	Hawthorn sp.	Crataegus sp.	21	20	20	9	8	37	9	20	Fair	TK7, BOB, GTF, ER, SN, RP	5.5	City of Mississauga	Yes	Yes
617	Hawthorn sp.	Crataegus sp.	16	14	14	12	9	30	5	45	Poor	TK5, BOB, GTF, PB, DW, PF, RP	3.6	City of Mississauga	Yes	Yes
618	Apple sp.	Malus sp.	51					51	6	20	Fair	TOB, GTF, PP, PC, SC, RP	7.2	City of Mississauga	Yes	Yes
619	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
620	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
621	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
622	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
623	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
624	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
625	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
626	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
627	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
628	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
629	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
630	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
561	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	15	1731.24	Yes
562	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	2029.33	Yes
563	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	972.78	Yes
564	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	3	15	1529.06	Yes
565	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	297.21	Yes
566	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1541.24	Yes
567	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	86.88	Yes
568	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	337.54	Yes
569	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	2	10	510.22	Yes
570	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	1	147.93	Yes
571	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	15	2613.81	Yes
572	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	20	3128.65	Yes
573	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	362.75	Yes
574	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	391.32	Yes
575	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	362.75	Yes
576	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1081.21	Yes
577	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1445.00	Yes
578	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	270.32	Yes
579	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1541.24	Yes
580	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	972.78	Yes
581	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	185.49	Yes
582	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	1	3	207.09	Yes
583	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	62.16	Yes
584	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	363.98	Yes
585	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1363.50	Yes
586	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 3 Impact Area	NA	1	158.51	Yes
587	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	86.88	Yes
588	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	101.46	Yes
589	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	86.88	Yes
590	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1166.23	Yes
591	Maple - Manitoba	Acer negundo	Remove	Alternative 3 Impact Area	NA	1	80.31	Yes
592	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	282.08	Yes
593	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	4	30	4305.41	Yes
594	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	20	3696.90	Yes
595	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	315.69	Yes
596	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	282.08	Yes
597	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	5	40	6438.30	Yes
598	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	2	10	1684.55	Yes
599	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	1	1	391.32	Yes
600	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	1	1	315.44	Yes
601	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	3	15	2317.92	Yes
602	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	2	3	403.83	Yes
603	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	282.08	Yes
604	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	67.93	Yes
605	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	10	1445.00	Yes
606	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	2	3	605.04	Yes
607	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	1	1	178.07	Yes
608	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	15	2109.30	Yes
609	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	51.00	Yes
610	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	181.87	Yes
611	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	297.21	Yes
612	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	270.32	Yes
613	Maple - Norway	Acer platanoides	Remove	Alternative 3 Impact Area	NA	1	282.08	Yes
614	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	NA	NA	76.25	Yes
615	Ash - Green	Fraxinus pennsylvanica	Remove	Alternative 3 Impact Area	NA	1	158.51	Yes
616	Hawthorn sp.	Crataegus sp.	Remove	Alternative 3 Impact Area	3	15	2259.86	Yes
617	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 3 Impact Area	2	10	870.05	Yes
618	Apple sp.	Malus sp.	Remove	Alternative 3 Impact Area	4	30	3839.29	Yes
619	Cherry - Sweet	Prunus avium	Protect	Alternative 3 Study Area	NA	NA	5694.63	No
620	Cherry - Sweet	Prunus avium	Protect	Alternative 3 Study Area	NA	NA	5694.63	No
621	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
622	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
623	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
624	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
625	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
626	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
627	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
628	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	2	10	929.57	Yes
629	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
630	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
631	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
632	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
633	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
634	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
635	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
636	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
637	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
638	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
639	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
640	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
641	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
642	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
643	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
644	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
645	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
646	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
647	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
648	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
649	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 3	Location Category - Alternative 3	Mississauga Compensation - Alternative 3	TRCA Compensation - Alternative 3	Tree Valuation (Trunk Formula) - $	Alternative 3 - Tree Value Needed (Y/N)
631	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
632	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
633	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
634	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
635	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	173.33	No
636	Cedar - Eastern-White	Thuja occidentalis	Protect - Injury	Alternative 3 Study Area	NA	NA	173.33	No
637	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Study Area	NA	1	173.33	No
638	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
639	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
640	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 3 Impact Area	NA	1	173.33	Yes
641	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	173.33	No
642	Cedar - Eastern-White	Thuja occidentalis	Protect - Minor Injury	Alternative 3 Study Area	NA	NA	173.33	No
643	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
644	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
645	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
646	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
647	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
648	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No
649	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 3 Study Area	NA	NA	173.33	No

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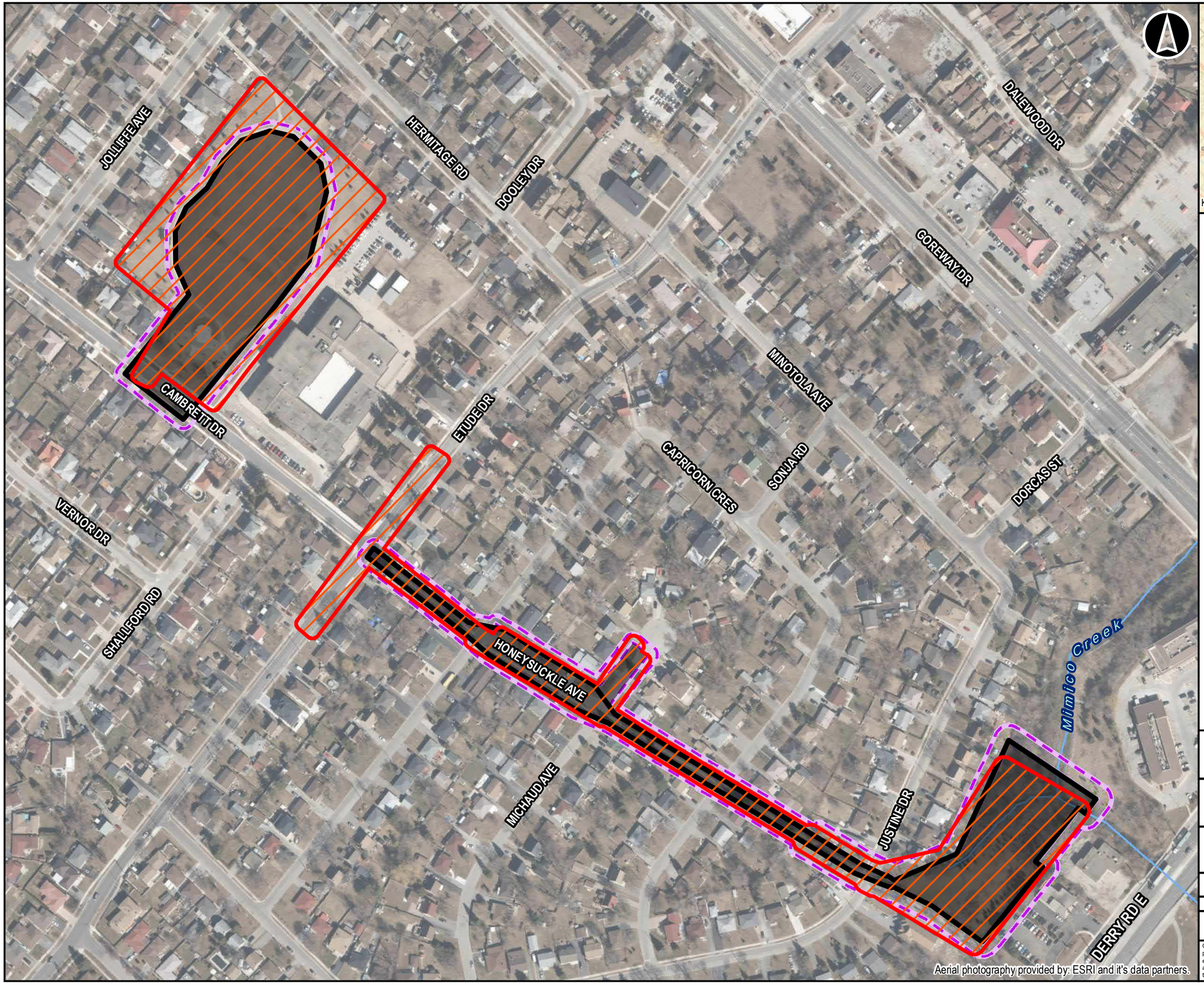
Appendix D2-D9

Alternative 2 Tree Inventory and Preservation Plan



Legend

- Preliminary Tree Inventory Study Area
- Alternative 3 Impact Area
- Alternative 3 Study Area
- Watercourse

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 20 40 80 120 160
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:2,500 * when printed 11"x17"	Data Sources: MECP, MMAH
P#:60620089	Rev:00	

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Map location: E:\PR\60620\26 Malton Flood\Design\01_Reports\ArboristReport_2021\01MXD_60620089_TreeProtectionPlan_HighLevel_Alt3_R00.mxd
Date Saved: 1/15/2021 3:15:32 AM User Name: oriarx

Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

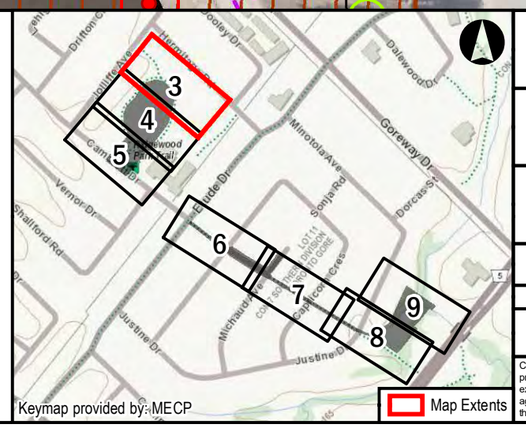
- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree
- Tree Protection Fencing
- Tree Sapling/Sumac Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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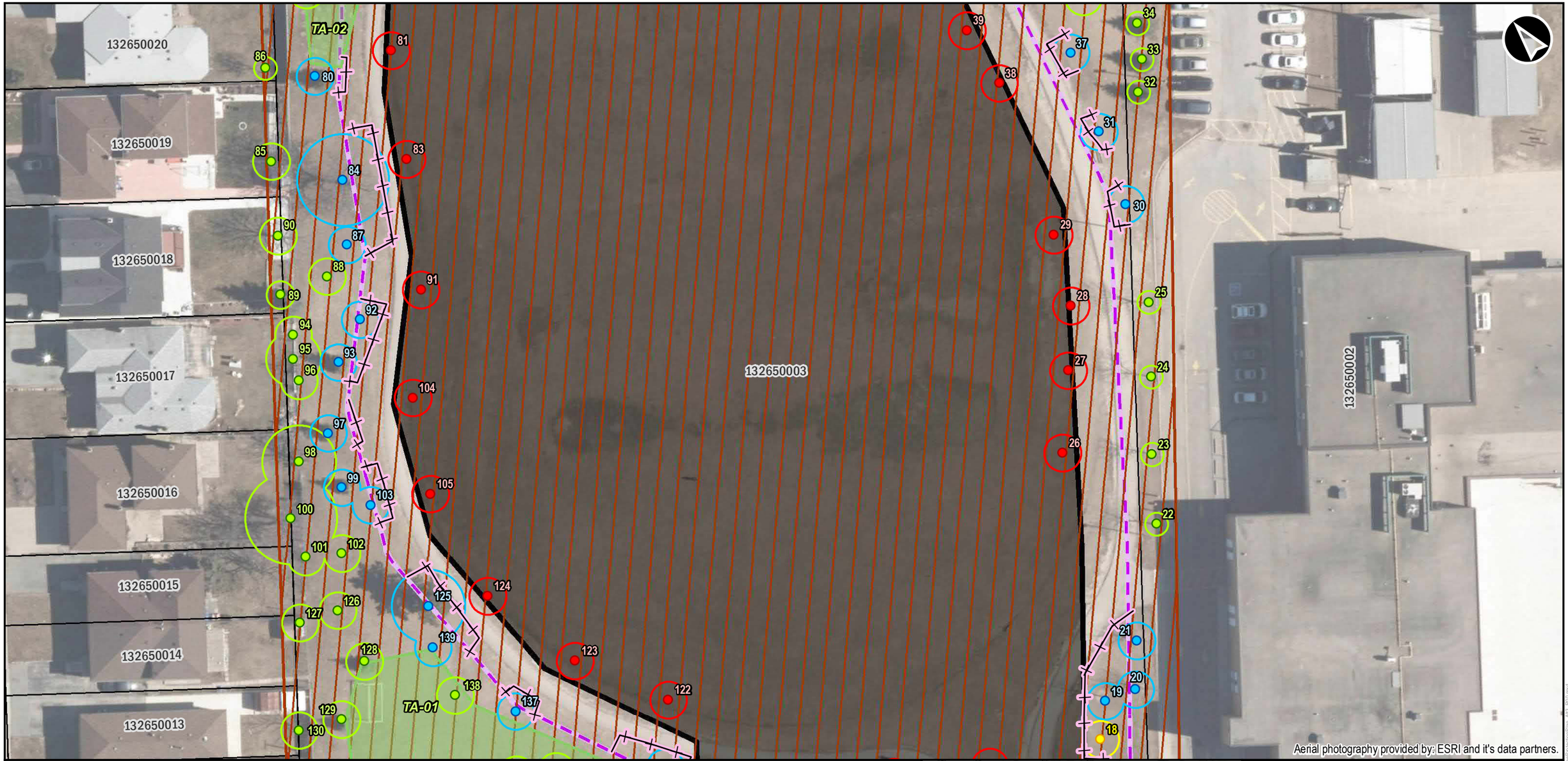
Date Saved: 1/15/2021 2:38:04 AM User Name: cnaves



Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

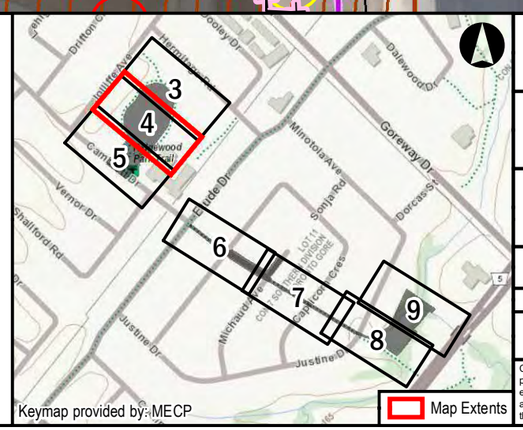
Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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File path: P:\60620089\Malton Flood Study\03_Reports\Alternative Report_2021\TA03_D4\TA03_D4_Tree Protection Plan_A3_L01.mxd
Date Saved: 1/15/2021 2:38:04 AM User Name: onavs

Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

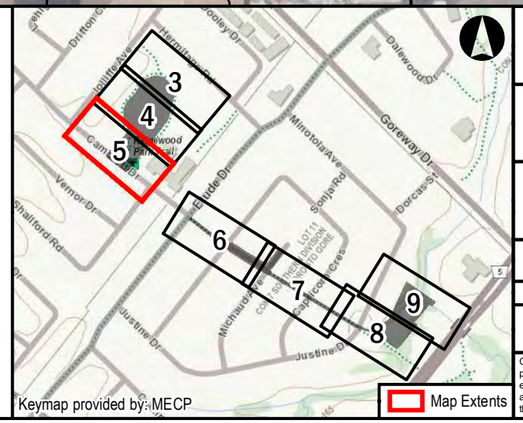
Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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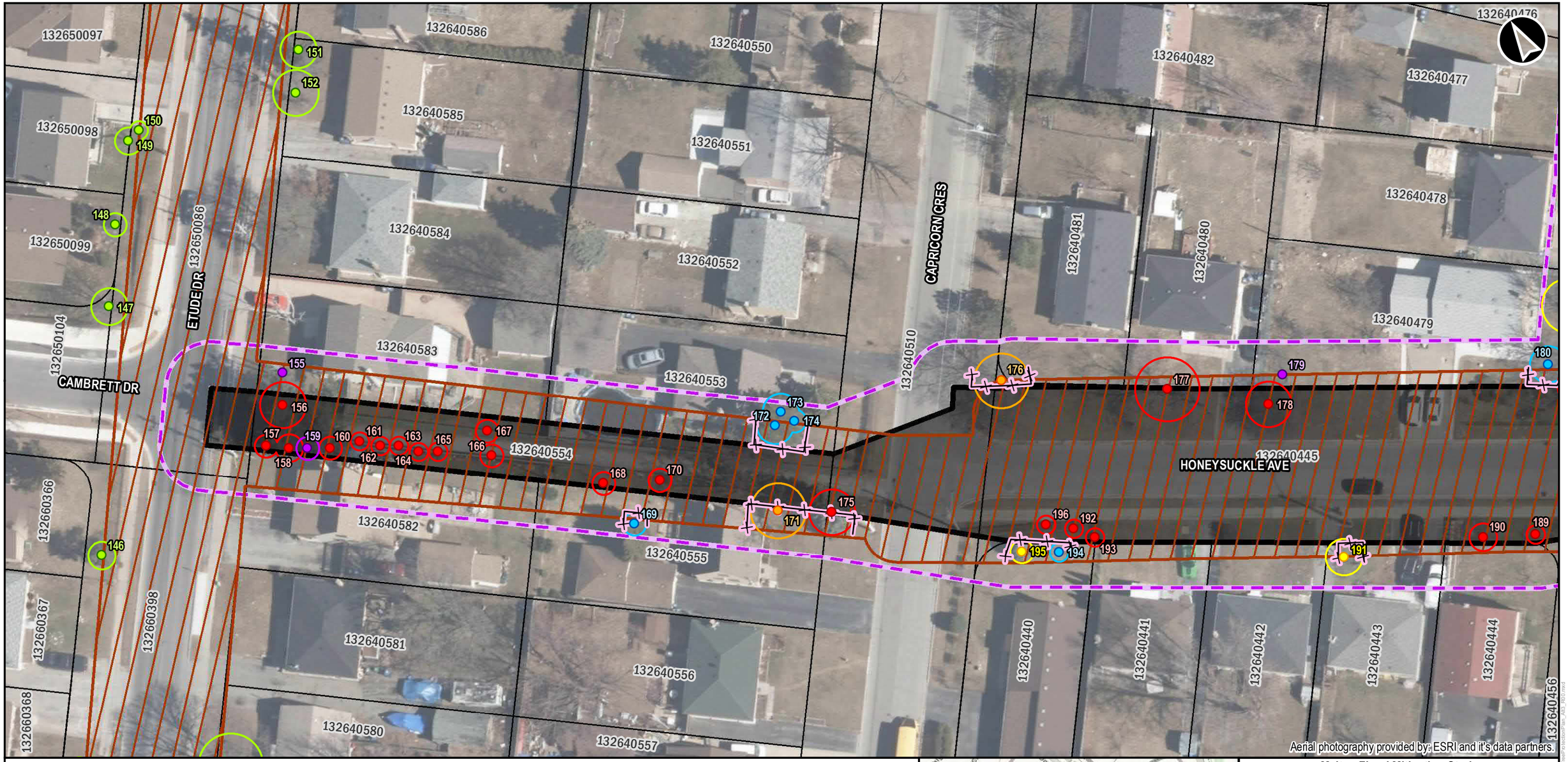
File Location: L:\Projects\60620089 Malton Flood Design\01_Projects\ArcGIS\MapProject_GIS\TEMPLATE_BASEMAP_Tree Protection Plan_Alt3_R00.mxd
Date Saved: 1/15/2021 2:38:04 AM User Name: crivera



Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

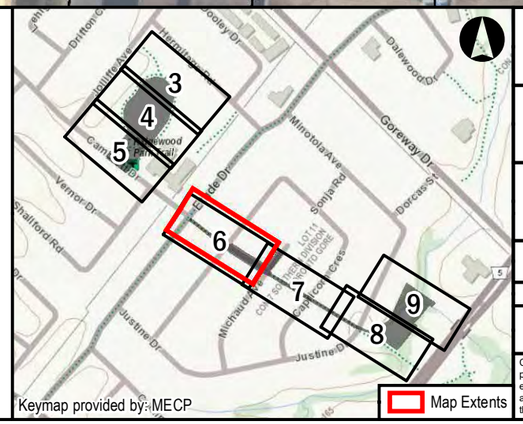
Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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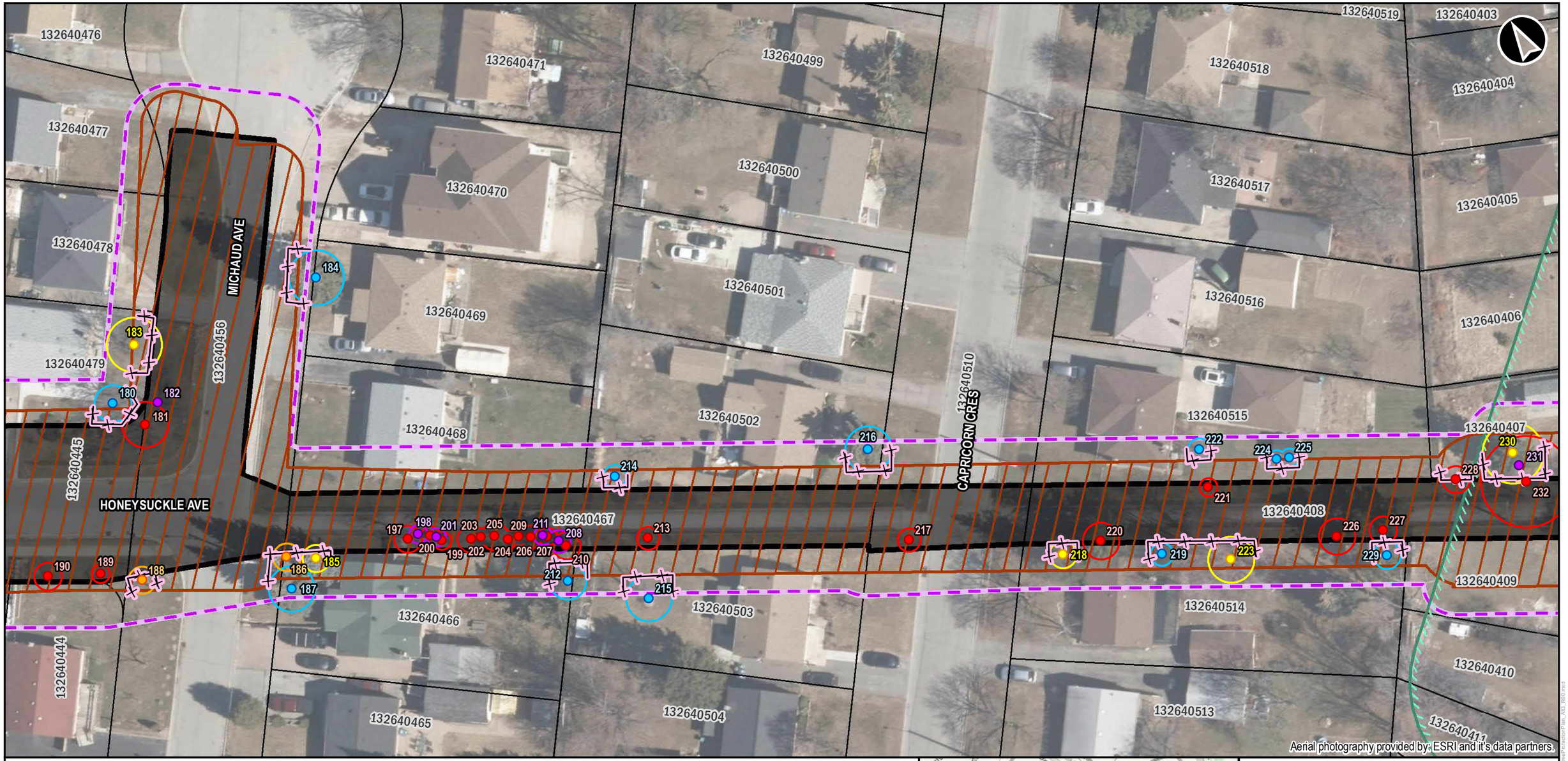
File Location: E:\Projects\60620089_MaltonFloodMitigation\03_Design\Arcmap\Report_GIS\TreeInventory_Etude2Justine_Alt3_Report.mxd
Date Saved: 1/15/2021 2:38:04 AM User Name: crawsj



Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

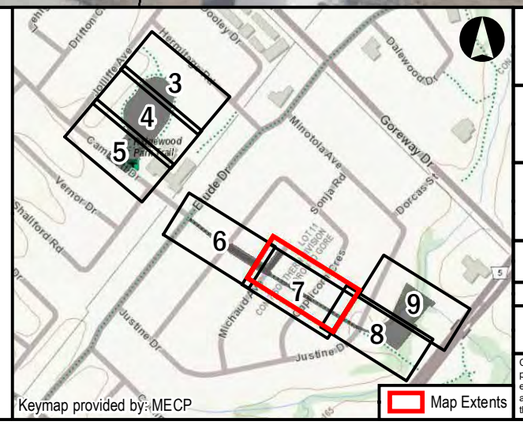
Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	
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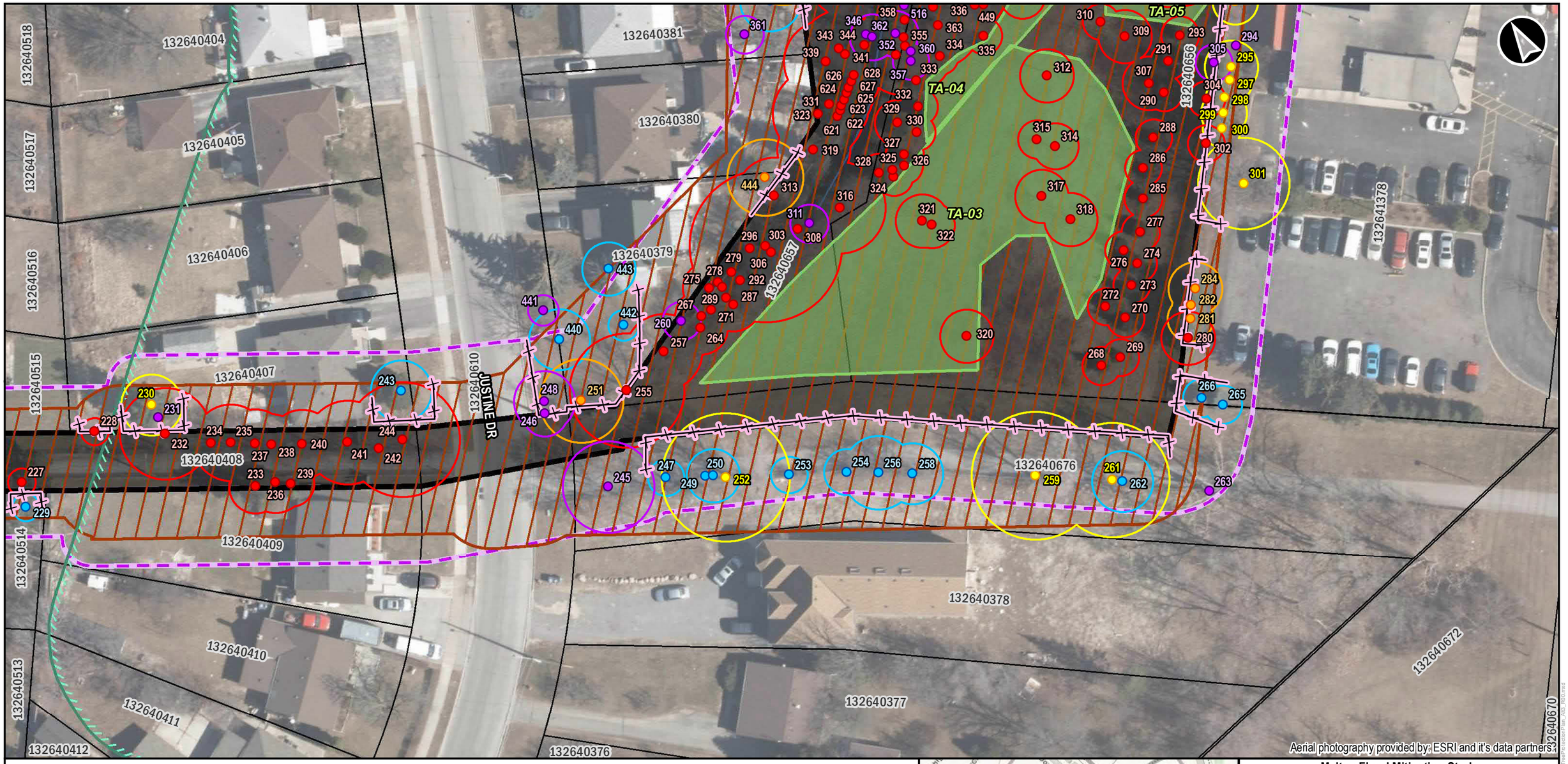
File location: C:\Projects\60620089 Malton Flood Design\01_Reports\Arborist Report_CAD\TPP\MFMS_D7_TPP_Alternative_Alt3_Rev1.mxd
Date Saved: 1/15/2021 2:38:04 AM User Name: cdaws



Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

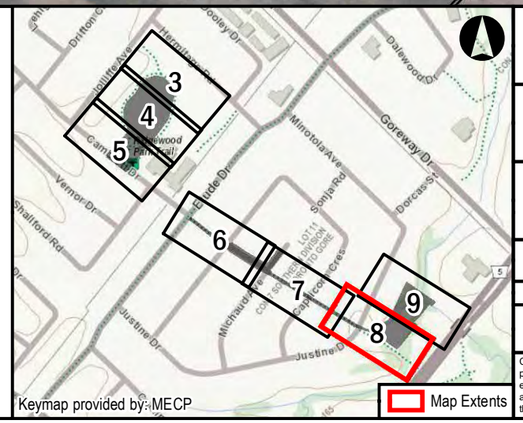
Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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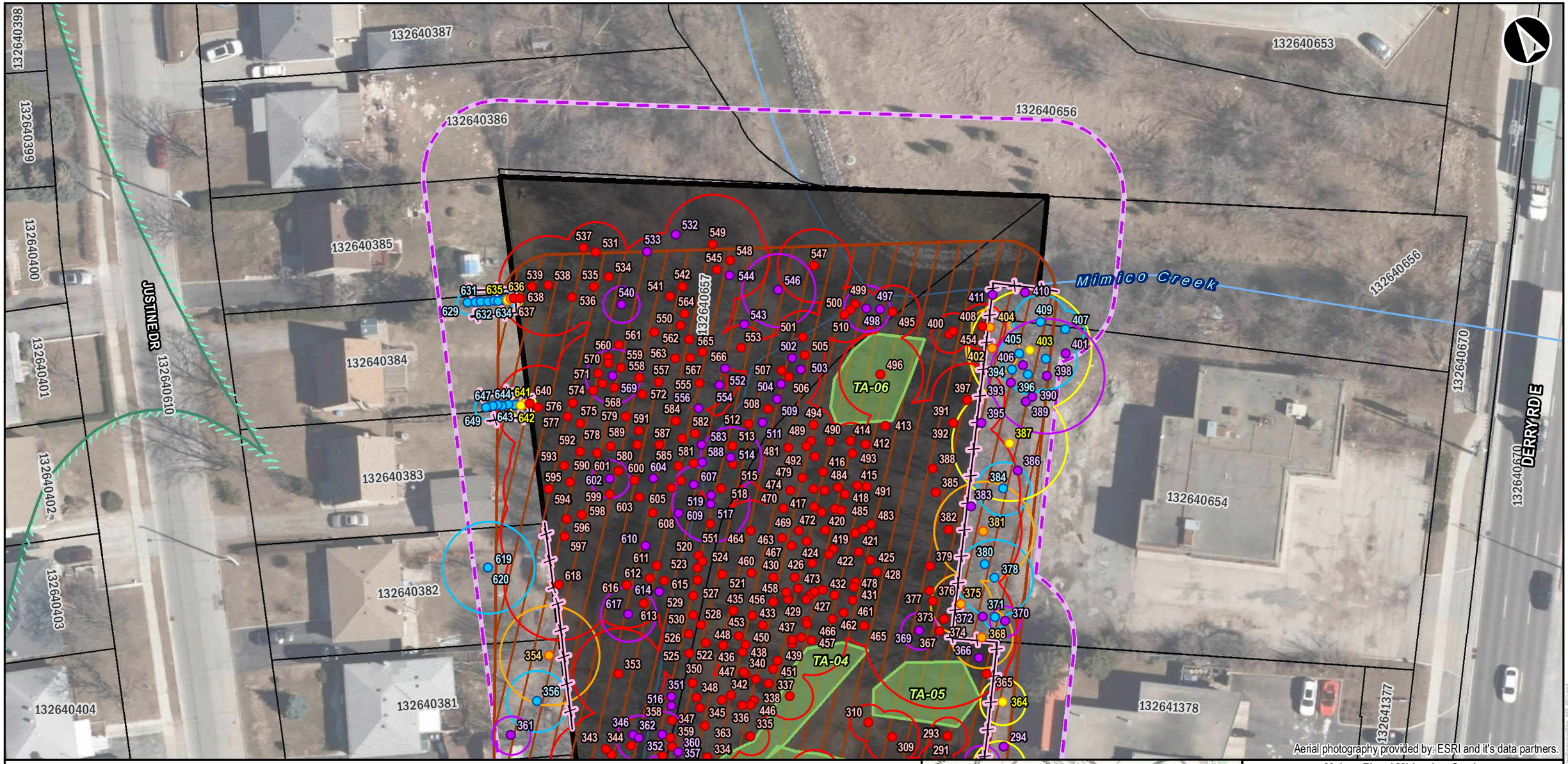
Date Saved: 1/15/2021 2:38:04 AM User Name: cnavs



Legend

- Alternative 3 Study Area
- Alternative 3 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

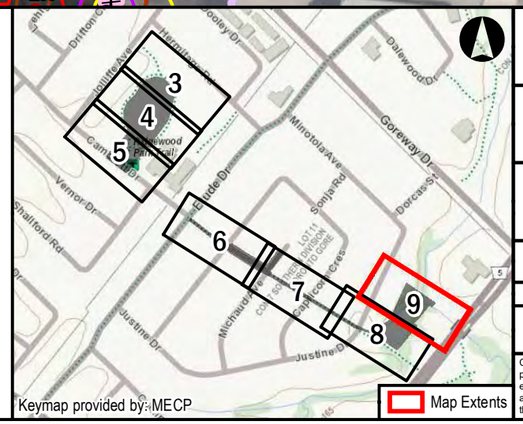
Recommended Action - Alternative 3

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 3

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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Map location: L:\PROJECTS\60620089_Malton Flood Study\03_Reports\Appendix\Report_D6_TPP\MXD_Drawings_Report\Appendix Plan_A3_600.mxd
Date Saved: 1/15/2021 2:38:04 AM User Name: cnaws

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Appendix E1

Alternative 4 Tree Management Table

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
1	Honey-Locust	Gleditsia triacanthos	31					31	9	10	Good	ST, DW, FS, FC, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
2	Maple - Norway	Acer platanoides	13					13	4	0	Good	LT, DC, SF, RP	2.4	City of Mississauga (Park)	No	Yes
3	Maple - Norway	Acer platanoides	16					16	4	10	Good	LT, NST, ER, BSD, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
4	Maple - Norway	Acer platanoides	18					18	4	5	Good	ER, GR, PP, WC, DW, RP	2.4	City of Mississauga (Park)	No	Yes
5	Honey-Locust	Gleditsia triacanthos	17					17	5	5	Good	LT, ER, FS, RP	2.4	City of Mississauga (Park)	No	Yes
6	Maple - Silver	Acer saccharinum	25					25	9	0	Good	PTH, TW, WC, PF, FK@2M, RP	3.6	City of Mississauga (Park)	No	Yes
7	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	FK@2M, MB, FS, UW, RP	1.5	City of Mississauga (Road ROW)	No	No
8	Honey-Locust	Gleditsia triacanthos	15					15	7	5	Good	MB, PF, WNC, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
9	Maple - Silver	Acer saccharinum	62					62	11	15	Good	FK@2M, PP, WNC, MB, PB, ST, RP	8.4	City of Mississauga (Park)	No	Yes
10	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	MB, DW, FS, RP	2.4	City of Mississauga (Park)	No	Yes
11	Apple sp.	Malus sp.	25					25	6	20	Fair	LN (M), BSD, TW, WNC, ST, SC, 1SD, UC, PP, RP	3.6	City of Mississauga (Park)	No	Yes
12	Maple - Norway	Acer platanoides	10					10	2	15	Good	ER, DC, RP	2.4	City of Mississauga (Park)	No	Yes
13	Maple - Norway	Acer platanoides	10					10	3	20	Fair	BSD, MB, RP	2.4	City of Mississauga (Park)	No	Yes
14	Maple - Norway	Acer platanoides	14					14	4	10	Good	PTL, LN (L), TW, PF, WNC, ER, RP	2.4	City of Mississauga (Park)	No	Yes
15	Oak - Red	Quercus rubra	13					13	4	0	Good	ER, DC, SF, PF, RP	2.4	City of Mississauga (Park)	No	Yes
16	Serviceberry sp.	Amelanchier sp.	4	3	2	2	2	6	1	10	Fair	TK7, RP	2.4	City of Mississauga (Park)	No	Yes
17	Zelkova - Japanese	Zelkova serrata	4					4	1	10	Fair	FS, SL, ML, RP	2.4	City of Mississauga (Park)	No	Yes
18	Serviceberry sp.	Amelanchier sp.	2					2	1	20	Fair	PTL, RH	2.4	City of Mississauga (Park)	No	Yes
19	Oak - English	Quercus robur	12					12	4	0	Good	BSD, WNC, ER, PF, RH, RP, DC, SF	2.4	City of Mississauga (Park)	No	Yes
20	Maple - Norway	Acer platanoides	17					17	5	5	Good	ER, GR, NST, DC	2.4	City of Mississauga (Park)	No	Yes
21	Maple - Norway	Acer platanoides	15					15	4	10	Good	ER, GR, DW, RP	2.4	City of Mississauga (Park)	No	Yes
22	Honey-Locust	Gleditsia triacanthos	18					18	6	5	Good	PP, WC, FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
23	Honey-Locust	Gleditsia triacanthos	17					17	7	5	Good	ER, ETB, PP, WC, FS, DW, RP	1.5	Peel District School Board	No	No
24	Honey-Locust	Gleditsia triacanthos	17					17	6	10	Good	ETB, SB, MB, FS, DW, RP	1.5	Peel District School Board	No	No
25	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	ER, MB, TW, WNC, PP, FS, RP	1.5	Peel District School Board	No	No
26	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, SF, RP	2.4	City of Mississauga (Park)	No	Yes
27	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
28	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
29	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
30	Yellow-Wood	Cladrastis kentukea	5					5	1	0	Fair	LT, PTL, PP, SL	2.4	City of Mississauga (Park)	No	Yes
31	Yellow-Wood	Cladrastis kentukea	6					6	1	10	Fair	LT, SB, RH, MB, FS, TW, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
32	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, VC, DC, SF	1.5	Peel District School Board	No	No
33	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
34	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, NST, DC, SF	1.5	Peel District School Board	No	No
35	Honey-Locust	Gleditsia triacanthos	18					18	7	10	Good	FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
36	Yellow-Wood	Cladrastis kentukea	3	2	2	1		4	1	0	Fair	PTL, ML, FS, RP	2.4	City of Mississauga (Park)	No	Yes
37	Yellow-Wood	Cladrastis kentukea	4	3	2	2		6	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga (Park)	No	Yes
38	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
39	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
40	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
41	Yellow-Wood	Cladrastis kentukea	3					3	2	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes
42	Yellow-Wood	Cladrastis kentukea	6					6	1	5	Fair	ML, FS,,RP	2.4	City of Mississauga (Park)	No	Yes
43	Honey-Locust	Gleditsia triacanthos	11					11	5	10	Good	LT, MB, DC	1.5	Peel District School Board	No	No
44	Spruce - Colorado	Picea pungens	12					12	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
45	Spruce - Colorado	Picea pungens	10					10	2	30	Fair	VC, LT, SL, CD	1.5	Peel District School Board	No	No
46	Honey-Locust	Gleditsia triacanthos	19					19	7	5	Good	ER, ST, DW, FS, RP	1.5	Peel District School Board	No	No
47	Maple - Norway	Acer platanoides	5					5	2	10	Fair	1SD, LS, GTF	1.2	Peel District School Board	No	No
48	Elm - Siberian	Ulmus pumila	20	7				21	7	15	Good	TK2, GTF, FS, DW, SF, RP	1.8	Peel District School Board	No	No
49	Maple - Manitoba	Acer negundo	12	9	6			16	5	25	Fair	TK3, GTF, LN (L), FS, CT, 1SD, UC, PP, RP	1.5	Peel District School Board	No	No
50	Maple - Manitoba	Acer negundo	17	10	10			22	9	15	Good	TK3, GTF, RH, CT, RP	1.8	Peel District School Board	No	No
51	Sweetgum	Liquidambar styraciflua	6					6	1	40	Poor	SL, PP, RH, SB	2.4	City of Mississauga (Park)	No	Yes
52	Sweetgum	Liquidambar styraciflua	5					5	1	30	Fair	RH, SL	2.4	City of Mississauga (Park)	No	Yes
53	Sweetgum	Liquidambar styraciflua	4					4	1	25	Fair	LT, SL, RH	2.4	City of Mississauga (Park)	No	Yes
54	Yellow-Wood	Cladrastis kentukea	4					4	1	5	Fair	LT, CT, MB, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
55	Sweetgum	Liquidambar styraciflua	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
56	Spruce - Colorado	Picea pungens	11					11	3	5	Good	LT, DC, ML, RP	2.4	City of Mississauga (Park)	No	Yes
57	Sweetgum	Liquidambar styraciflua	4					4	0	100	Dead	SB, DW, RM	0	City of Mississauga (Park)	No	Yes
58	Spruce - Colorado	Picea pungens	9					9	2	5	Good	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
59	Spruce - Colorado	Picea pungens	8					8	2	15	Fair	PTL, GC, SF, RF	2.4	City of Mississauga (Park)	No	Yes
60	Sweetgum	Liquidambar styraciflua	5					5	1	15	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
61	Sweetgum	Liquidambar styraciflua	5					5	1	35	Fair	LT, PTL, 1SD, RP	2.4	City of Mississauga (Park)	No	Yes
62	Spruce - Colorado	Picea pungens	8					8	2	25	Fair	GC, 1SD, PL, SL, DW	2.4	City of Mississauga (Park)	No	Yes
63	Maple - Manitoba	Acer negundo	27					27	10	20	Fair	GTF, DE, PP, 1SD, UC, RP	3.6	City of Mississauga (Park)	No	Yes
64	Apple sp.	Malus sp.	13					13	5	20	Fair	LN (M), SB, ST, SC, 1SD, UC	2.4	City of Mississauga (Park)	No	Yes
65	Honey-Locust	Gleditsia triacanthos	51					51	13	15	Good	LT, BSD, WNC, FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
66	Oak - Red	Quercus rubra	8					8	3	10	Fair	TW, WNC, DC	2.4	City of Mississauga (Park)	No	Yes
67	Oak - Red	Quercus rubra	7					7	3	10	Fair	ML, LT, RP	2.4	City of Mississauga (Park)	No	Yes
68	Spruce - Colorado	Picea pungens	9					9	3	0	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
69	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	4	3				5	1	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
1	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 4 Impact Area	3	NA	2354.52	Yes
2	Maple - Norway	Acer platanoides	Remove	Alternative 4 Impact Area	2	NA	695.75	Yes
3	Maple - Norway	Acer platanoides	Remove	Alternative 4 Impact Area	2	NA	884.40	Yes
4	Maple - Norway	Acer platanoides	Remove	Alternative 4 Impact Area	2	NA	1031.85	Yes
5	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 4 Impact Area	2	NA	940.20	Yes
6	Maple - Silver	Acer saccharinum	Remove	Alternative 4 Impact Area	2	NA	1463.90	Yes
7	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 4 Impact Area	2	NA	1173.81	Yes
8	Honey-Locust	Gleditsia triacanthos	Protect	Alternative 4 Study Area	NA	NA	805.50	No
9	Maple - Silver	Acer saccharinum	Remove	Alternative 4 Impact Area	5	NA	7622.86	Yes
10	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 4 Impact Area	2	NA	805.50	Yes
11	Apple sp.	Malus sp.	Protect	Outside Alternative 4 Study Area	NA	NA	1055.75	No
12	Maple - Norway	Acer platanoides	Protect	Outside Alternative 4 Study Area	NA	NA	546.13	No
13	Maple - Norway	Acer platanoides	Protect	Alternative 4 Study Area	NA	NA	423.25	No
14	Maple - Norway	Acer platanoides	Protect	Outside Alternative 4 Study Area	NA	NA	754.29	No
15	Oak - Red	Quercus rubra	Protect - Minor Injury	Alternative 4 Study Area	NA	NA	843.92	No
16	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 4 Study Area	NA	NA	226.61	No
17	Zelkova - Japanese	Zelkova serrata	Remove	Alternative 4 Impact Area	NA	NA	278.53	Yes
18	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 4 Study Area	NA	NA	170.47	No
19	Oak - English	Quercus robur	Protect	Alternative 4 Study Area	NA	NA	762.24	No
20	Maple - Norway	Acer platanoides	Protect	Outside Alternative 4 Study Area	NA	NA	955.96	No
21	Maple - Norway	Acer platanoides	Protect	Outside Alternative 4 Study Area	NA	NA	817.18	No
22	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	1013.86	No
23	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	940.20	No
24	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	940.20	No
25	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	1173.81	No
26	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Impact Area	NA	NA	247.92	Yes
27	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Impact Area	NA	NA	247.92	Yes
28	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Study Area	NA	NA	247.92	Yes
29	Gingko	Gingko biloba	Remove	Alternative 4 Impact Area	NA	NA	264.68	Yes
30	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 4 Study Area	NA	NA	241.00	No
31	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 4 Study Area	NA	NA	259.21	No
32	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
33	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
34	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
35	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	1013.86	No
36	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 4 Study Area	NA	NA	226.09	No
37	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 4 Study Area	NA	NA	259.21	No
38	Gingko	Gingko biloba	Remove	Alternative 4 Impact Area	NA	NA	264.68	Yes
39	Gingko	Gingko biloba	Remove	Alternative 4 Impact Area	NA	NA	264.68	Yes
40	Gingko	Gingko biloba	Remove	Alternative 4 Impact Area	NA	NA	264.68	Yes
41	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 4 Study Area	NA	NA	214.50	No
42	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 4 Study Area	NA	NA	259.21	No
43	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	586.62	No
44	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
45	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
46	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 4 Study Area	NA	NA	1091.73	No
47	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	297.21	No
48	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	716.62	No
49	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	312.27	No
50	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	679.22	No
51	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	162.16	No
52	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 4 Study Area	NA	NA	270.95	No
53	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 4 Study Area	NA	NA	257.60	No
54	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 4 Study Area	NA	NA	226.09	No
55	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 4 Study Area	NA	NA	270.95	No
56	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
57	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	41.55	No
58	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
59	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
60	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 4 Study Area	NA	NA	270.95	No
61	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 4 Study Area	NA	NA	270.95	No
62	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	0.00	No
63	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	756.48	No
64	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	413.39	No
65	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 4 Study Area	NA	NA	5806.14	No
66	Oak - Red	Quercus rubra	Protect	Outside Alternative 4 Study Area	NA	NA	443.85	No
67	Oak - Red	Quercus rubra	Retain	Outside Alternative 4 Study Area	NA	NA	413.82	No
68	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	442.87	No
69	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	327.80	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	327.80	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
71	Oak - Red	Quercus rubra	3					3	1	20	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
72	Oak - Red	Quercus rubra	4					4	1	5	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
73	Oak - Red	Quercus rubra	3					3	1	25	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
74	Spruce - Colorado	Picea pungens	5					5	2	45	Poor	LT, CD, DW, RM	2.4	City of Mississauga (Park)	No	Yes
75	Maple - Freeman	Acer x freemanii	3	3	2			5	3	25	Poor	TK3, PP, GTF, RM	2.4	City of Mississauga (Park)	No	Yes
76	Spruce - Colorado	Picea pungens	5					5	2	15	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
77	Maple - Freeman	Acer x freemanii	43					43	12	10	Good	PP, TW, WNC, FK@5M, DW, SB, RP	6	City of Mississauga (Park)	No	Yes
78	Spruce - White	Picea glauca	5					5	3	25	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
79	Spruce - White	Picea glauca	9					9	4	15	Fair	LT, ML, PL, RP	2.4	City of Mississauga (Park)	No	Yes
80	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
81	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	FK@2M, RP, LT	2.4	City of Mississauga (Park)	No	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, ML	2.4	City of Mississauga (Park)	No	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	5	2				5	2	10	Fair	TK2, LT, RP	2.4	City of Mississauga (Park)	No	Yes
84	Honey-Locust	Gleditsia triacanthos	44					44	13	10	Good	FK@2M, CT, DW, FS, RP	6	City of Mississauga (Park)	No	Yes
85	Cherry - Sweet	Prunus avium	24	23	14	11		38	6	25	Fair	TK4, PP, WNC, FS, SC, RP	2.4	Private	No	No
86	Apple sp.	Malus sp.	12					12	4	10	Good	PP, LN (L), CT, SC, DC, RP	1.5	Private	No	No
87	Oak - Swamp White	Quercus bicolor	5					5	1	10	Fair	LT, SL, SG	2.4	City of Mississauga (Park)	No	Yes
88	Oak - Swamp White	Quercus bicolor	6					6	1	15	Fair	LT, SB, SF	2.4	City of Mississauga (Park)	No	Yes
89	Spruce - Colorado	Picea pungens	28					28	5	10	Good	LT, PP, DC, SF	1.8	Private	No	No
90	Horsechestnut - European	Aesculus hippocastanum	32					32	9	5	Good	LT, MB, DC, SF	2.4	Private	No	No
91	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
92	Oak - Swamp White	Quercus bicolor	4					4	1	10	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
93	Spruce - Colorado	Picea pungens	12					12	3	15	Good	LT, 1SD, NST	2.4	City of Mississauga (Park)	No	Yes
94	Maple - Norway	Acer platanoides	7					7	1	0	Fair	GTF, BR2, DW, SL	2.4	City of Mississauga (Park)	No	Yes
95	Maple - Manitoba	Acer negundo	12	12	11	9		22	6	10	Good	TK4, FS, GTF, FS, RP	3.6	City of Mississauga (Park)	No	Yes
96	Maple - Norway	Acer platanoides	7	5				9	1	15	Fair	TK2, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
97	Spruce - Colorado	Picea pungens	11					11	3	10	Good	LT, ER, SL, SF	2.4	City of Mississauga (Park)	No	Yes
98	Mulberry - White	Morus alba	19	15	14	13	8	32	7	15	Fair	TK5, GTF, PP, WNC, TW, FS, RP	4.8	City of Mississauga (Park)	No	Yes
99	Spruce - Colorado	Picea pungens	10					10	2	0	Good	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
100	Apple sp.	Malus sp.	27	24	19	17		44	9	25	Fair	TK4, PP, ST, SC, FS, SN, RH, RP	6	City of Mississauga (Park)	No	Yes
101	Apple sp.	Malus sp.	4	3	3	3		7	2	10	Fair	TK4, FS, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
102	Sweetgum	Liquidambar styraciflua	4					4	1	30	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
103	Sweetgum	Liquidambar styraciflua	6					6	1	15	Fair	LT, SL, PP	2.4	City of Mississauga (Park)	No	Yes
104	Kentucky Coffeetree	Gymnocladus dioicus	5					5	2	10	Good	LT, ML	2.4	City of Mississauga (Park)	No	Yes
105	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
106	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	DC, SF, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
107	Honey-Locust	Gleditsia triacanthos	59					59	13	10	Good	FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
108	Spruce - Colorado	Picea pungens	9					9	3	5	Good	LT, ER, SF	2.4	City of Mississauga (Park)	No	Yes
109	Spruce - White	Picea glauca	9					9	3	0	Good	ER, LT, SF	2.4	City of Mississauga (Park)	No	Yes
110	Mulberry - White	Morus alba	7	4				8	3	25	Fair	TK2, GTF, LN (L), ML, RP	2.4	City of Mississauga (Park)	No	Yes
111	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, SF	2.4	City of Mississauga (Park)	No	Yes
112	Oak - Red	Quercus rubra	7					7	2	15	Fair	LT, ER, FK@3M, ML, RP	2.4	City of Mississauga (Park)	No	Yes
113	Oak - Red	Quercus rubra	6					6	2	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
114	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	PP, TK4, RP	2.4	City of Mississauga (Park)	No	Yes
115	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	15	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
116	Oak - Red	Quercus rubra	8					8	2	0	Fair	ER, LT, PL, DC, 1SD	2.4	City of Mississauga (Park)	No	Yes
117	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
118	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	15	Fair	TK3, SB, RP	2.4	City of Mississauga (Park)	No	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	3	3	3	3		6	1	5	Fair	LT, TW, WNC, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	10	Fair	BSD, LN (L), WNC, LT, SF	2.4	City of Mississauga (Park)	No	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
122	Linden - Little-Leaf	Tilia cordata	3					3	1	15	Fair	LT, BR1, ML, RP	2.4	City of Mississauga (Park)	No	Yes
123	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
124	Linden - Little-Leaf	Tilia cordata	4					4	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
125	Pine - Austrian	Pinus nigra	37					37	7	15	Good	TW, WNC, CT, AD (sapsucker), LN (L), FS, RP	4.8	City of Mississauga (Park)	No	Yes
126	Sweetgum	Liquidambar styraciflua	4					4	4	5	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
127	Cherry - Sweet	Prunus avium	5	4				6	2	10	Fair	TK2, 1SD, FS, RP	2.4	City of Mississauga (Park)	No	Yes
128	Spruce - Colorado	Picea pungens	7					7	2	10	Fair	LT, FS, SF, RP	2.4	City of Mississauga (Park)	No	Yes
129	Spruce - Colorado	Picea pungens	6					6	2	0	Fair	LT, PL, RP	2.4	City of Mississauga (Park)	No	Yes
130	Pear sp.	Pyrus sp.	12	10				16	5	25	Fair	TK2, 1SD, UC, DW, LN (L), RP	2.4	City of Mississauga (Park)	No	Yes
131	Maple - Manitoba	Acer negundo	10	5	5	4	4	13	5	30	Fair	TK5, ST, SC, FS, PP, RP	2.4	City of Mississauga (Park)	No	Yes
132	Linden - Little-Leaf	Tilia cordata	4	4				6	1	20	Fair	TK2, GTF, LN (L), PP, SC, 1SD, LS	2.4	City of Mississauga (Park)	No	Yes
133	Spruce - White	Picea glauca	7					7	3	25	Fair	LT, CD, CN, SF	2.4	City of Mississauga (Park)	No	Yes
134	Spruce - White	Picea glauca	9					9	2	20	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
135	Spruce - White	Picea glauca	6					6	2	30	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
136	Cottonwood - Eastern	Populus deltoides	24	18				30	7	20	Fair	TK2, DW, CD, PB, RP	3.6	City of Mississauga (Park)	No	Yes
137	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
138	Catalpa - Northern	Catalpa speciosa	4					4	1	10	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
139	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
140	Oak - English	Quercus robur	55					55	6	10	Good	DC, SL	3.6	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
71	Oak - Red	Quercus rubra	Protect	Alternative 4 Study Area	NA	NA	333.75	No
72	Oak - Red	Quercus rubra	Retain	Outside Alternative 4 Study Area	NA	NA	347.76	No
73	Oak - Red	Quercus rubra	Retain	Outside Alternative 4 Study Area	NA	NA	333.75	No
74	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	190.63	No
75	Maple - Freeman	Acer x freemanii	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	158.60	No
76	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	337.69	No
77	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	4143.23	No
78	Spruce - White	Picea glauca	Protect	Outside Alternative 4 Study Area	NA	NA	320.55	No
79	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	424.35	No
80	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 4 Study Area	NA	NA	617.49	No
81	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	327.80	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	327.80	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	327.80	Yes
84	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 4 Study Area	NA	NA	4406.55	No
85	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 4 Study Area	NA	NA	2267.01	No
86	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	487.96	No
87	Oak - Swamp White	Quercus bicolor	Protect	Outside Alternative 4 Study Area	NA	NA	327.80	No
88	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 4 Study Area	NA	NA	348.19	No
89	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	2275.19	No
90	Horsechestnut - European	Aesculus hippocastanum	Retain	Outside Alternative 4 Study Area	NA	NA	2395.77	No
91	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	327.80	Yes
92	Oak - Swamp White	Quercus bicolor	Protect	Alternative 4 Study Area	NA	NA	311.12	No
93	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 4 Study Area	NA	NA	724.13	No
94	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	337.54	No
95	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	679.22	No
96	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	391.32	No
97	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 4 Study Area	NA	NA	668.38	No
98	Mulberry - White	Morus alba	Retain	Outside Alternative 4 Study Area	NA	NA	1818.03	No
99	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 4 Study Area	NA	NA	617.49	No
100	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2902.52	No
101	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	244.35	No
102	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 4 Study Area	NA	NA	257.60	No
103	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 4 Study Area	NA	NA	287.26	No
104	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 4 Impact Area	NA	NA	422.97	Yes
105	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Impact Area	NA	NA	247.92	Yes
106	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 4 Impact Area	2	NA	805.50	Yes
107	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 4 Impact Area	4	NA	7658.23	Yes
108	Spruce - Colorado	Picea pungens	Remove	Alternative 4 Study Area	2	NA	571.44	Yes
109	Spruce - White	Picea glauca	Remove	Alternative 4 Study Area	2	NA	547.54	Yes
110	Mulberry - White	Morus alba	Protect	Alternative 4 Study Area	NA	NA	299.63	No
111	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 4 Study Area	NA	NA	617.49	No
112	Oak - Red	Quercus rubra	Remove	Alternative 4 Impact Area	2	NA	413.82	Yes
113	Oak - Red	Quercus rubra	Remove	Alternative 4 Impact Area	2	NA	387.80	Yes
114	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 4 Impact Area	NA	NA	170.47	Yes
115	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 4 Impact Area	NA	NA	170.47	Yes
116	Oak - Red	Quercus rubra	Remove	Alternative 4 Impact Area	2	NA	443.85	Yes
117	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 4 Impact Area	NA	NA	170.47	Yes
118	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 4 Impact Area	NA	NA	170.47	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 4 Impact Area	2	NA	305.64	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 4 Impact Area	2	NA	305.64	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Protect	Alternative 4 Study Area	NA	NA	305.64	No
122	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Impact Area	NA	NA	247.92	Yes
123	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Impact Area	NA	NA	247.92	Yes
124	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 4 Impact Area	NA	NA	260.38	Yes
125	Pine - Austrian	Pinus nigra	Protect	Outside Alternative 4 Study Area	NA	NA	3041.61	No
126	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 4 Study Area	NA	NA	257.60	No
127	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 4 Study Area	NA	NA	213.99	No
128	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	382.76	No
129	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	358.35	No
130	Pear sp.	Pyrus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	414.41	No
131	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	230.57	No
132	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 4 Study Area	NA	NA	295.96	No
133	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	365.03	No
134	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	424.35	No
135	Spruce - White	Picea glauca	Protect	Outside Alternative 4 Study Area	NA	NA	340.94	No
136	Cottonwood - Eastern	Populus deltoides	Protect	Outside Alternative 4 Study Area	NA	NA	1657.43	No
137	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 4 Study Area	NA	NA	240.06	No
138	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 4 Study Area	NA	NA	226.50	No
139	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 4 Study Area	NA	NA	240.06	No
140	Oak - English	Quercus robur	Retain	Outside Alternative 4 Study Area	NA	NA	8111.92	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
141	Maple - Norway	Acer platanoides	47					47	11	20	Fair	ER, GR, MB, PP, WNC, UW, SC	3	City of Mississauga (Road ROW)	No	No
142	Spruce - White	Picea glauca	30					30	6	35	Fair	LT, CD, CN, PP, UW, RP	1.8	Private	No	No
143	Maple - Silver	Acer saccharinum	61					61	13	15	Good	GC, FK@2M, FK@4M, BR3, PF, 1SD, SC, RP	4.2	City of Mississauga (Road ROW)	No	No
144	Maple - Norway	Acer platanoides	62					62	16	15	Good	FK@2M, UW, PP, WC, 1SD	4.2	Private	No	No
145	Honey-Locust	Gleditsia triacanthos	6					6	1	15	Fair	LT, SL	1.2	City of Mississauga (Road ROW)	No	No
146	Pine - Scots	Pinus sylvestris	26					26	5	25	Fair	LT, PTL, DW, AD (sapsucker), RP	1.8	City of Mississauga (Road ROW)	No	No
147	Maple - Norway	Acer platanoides	32					32	12	35	Fair	BSD, TW, DE, PB, CD, MB, RP	2.4	City of Mississauga (Road ROW)	No	No
148	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, SF	1.5	Private	No	No
149	Apple sp.	Malus sp.	27					27	5	35	Fair	CT, TW, DE, CD, PP, RP	1.8	Private	No	No
150	Mulberry - White	Morus alba	5	5	3			8	3	0	Fair	TK3, PP, SC	1.2	City of Mississauga (Road ROW)	No	No
151	Spruce - White	Picea glauca	35					35	8	20	Fair	LT, 1SD, UW, PL	2.4	Private	No	No
152	Honey-Locust	Gleditsia triacanthos	48					48	8	20	Fair	GC, RH, SC, PP, UW, DW, RP	3	Private	No	No
153	Serviceberry sp.	Amelanchier sp.	1	1	1	1	1	2	1	15	Fair	TK6, SB, RP	2.4	City of Mississauga (Park)	No	Yes
154	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, FS, RP	2.4	City of Mississauga (Park)	No	Yes
155	Birch - White	Betula papyrifera	25					25	0	100	Dead	DW, RM	0	Private	No	No
156	Pine - Austrian	Pinus nigra	45					45	10	15	Good	PP, FK@2M, FS, RP	3	City of Mississauga (Road ROW)	No	No
157	Juniper - Eastern	Juniperus virginiana	10	7	5			13	3	25	Fair	LS, TK3, DW, 1SD, UC	1.5	City of Mississauga (Road ROW)	No	No
158	Douglas-Fir	Pseudotsuga menziesii	30					30	6	10	Good	DC, SF	1.8	City of Mississauga (Road ROW)	No	No
159	Juniper - Eastern	Juniperus virginiana	12	8	8	5		17	4	45	Poor	TK4, SN, LS, 1SD	1.5	City of Mississauga (Road ROW)	No	No
160	Douglas-Fir	Pseudotsuga menziesii	19					19	4	25	Fair	1SD, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
161	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
162	Maple - Manitoba	Acer negundo	6					6	1	25	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
163	Maple - Manitoba	Acer negundo	2					2	1	10	Fair	SP, GTF	1.2	City of Mississauga (Road ROW)	No	No
164	Maple - Freeman	Acer x freemanii	4	3				5	1	15	Fair	TK2, SP, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
165	Ash - White	Fraxinus americana	4					4	1	10	Fair	SL, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
166	Maple - Manitoba	Acer negundo	7	6	5			10	2	10	Fair	TK3, GTF, SL, ML, RP	1.5	City of Mississauga (Road ROW)	No	No
167	Maple - Manitoba	Acer negundo	10	7				12	4	15	Fair	TK2, MB, ML, FS, ST, RP	1.5	City of Mississauga (Road ROW)	No	No
168	Ash - White	Fraxinus americana	11	10				15	6	15	Fair	TK2, EAB, PP, SC, RP	1.5	City of Mississauga (Road ROW)	No	No
169	Cedar - Eastern-White	Thuja occidentalis	15					15	4	0	Good	DC, SF	1.5	Private	No	No
170	Maple - Manitoba	Acer negundo	10	4				11	4	15	Fair	TK2, GTF, PP, ST, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
171	Maple - Silver	Acer saccharinum	53					53	14	15	Good	FK@3M, BR2, SN, MB, FS, RP	3.6	Private	No	No
172	Juniper - Eastern	Juniperus virginiana	31					31	7	25	Fair	PTL, GC, PL, RP	2.4	Private	No	No
173	Juniper - Eastern	Juniperus virginiana	33					33	6	25	Fair	PL, SL, CS, RP	2.4	Private	No	No
174	Mountain-Ash - European	Sorbus aucuparia	12	11				16	4	5	Good	TK2, LS, CT	1.5	Private	No	No
175	Spruce - Colorado	Picea pungens	41					41	5	20	Good	SF, SL, LT	3	City of Mississauga (Road ROW)	No	No
176	Maple - Norway	Acer platanoides	58					58	17	15	Good	MB, RH, DW, FS, UW, SN, RP	3.6	City of Mississauga (Road ROW)	No	No
177	Maple - Silver	Acer saccharinum	61					61	13	15	Good	FK@4M, SN, PF, NST, UW, RP	4.2	City of Mississauga (Road ROW)	No	No
178	Apple sp.	Malus sp.	45					45	9	15	Good	MB, TT, SC, PP, DW, FS, SB, RP	3	City of Mississauga (Road ROW)	No	No
179	Apple sp.	Malus sp.	14					14	0	100	Dead	PB, LN (M), DW, RM	0	Private	No	No
180	Cherry - Sweet	Prunus avium	36					36	9	15	Good	MB, FC, WC, DW, RP	2.4	Private	No	No
181	Mulberry - White	Morus alba	25	24	19	17		43	9	15	Good	TK4, ER, PP, DW, FS, RP	3	City of Mississauga (Road ROW)	No	No
182	Apple sp.	Malus sp.	20	19				28	0	100	Dead	TK2, DW, DE, PF, RM	0	City of Mississauga (Road ROW)	No	No
183	Cherry - Sweet	Prunus avium	57					57	9	30	Fair	MB, PP, PF, ST, FS, RP	3.6	Private	No	No
184	Spruce - Colorado	Picea pungens	55					55	7	10	Good	SF, LT	3.6	Private	No	No
185	Spruce - Colorado	Picea pungens	28					28	5	15	Good	LT, PL, DW, RP	1.8	Private	No	No
186	Spruce - Colorado	Picea pungens	29					29	5	10	Good	LT, DC, SF	1.8	Private	No	No
187	Spruce - Colorado	Picea pungens	41					41	6	10	Good	LT, SF, DC	3	Private	No	No
188	Apple sp.	Malus sp.	17	14	12			25	8	5	Good	TK3, PTL, PP, PC	1.8	City of Mississauga (Road ROW)	No	No
189	Apple sp.	Malus sp.	9					9	4	15	Fair	SC, PC	1.2	City of Mississauga (Road ROW)	No	No
190	Apple sp.	Malus sp.	16	14				21	8	15	Good	TK2, FS, SC, PP, PC, RP	1.8	City of Mississauga (Road ROW)	No	No
191	Cherry - Sweet	Prunus avium	23	21				31	7	15	Good	TK2, PB, PP, SC, PC, IB	2.4	Private	No	No
192	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	10	Fair	TK3, FS, RP	1.2	City of Mississauga (Road ROW)	No	No
193	Cedar - Eastern-White	Thuja occidentalis	3	3	2	2		5	1	0	Fair	TK4, PP, VC	1.2	City of Mississauga (Road ROW)	No	No
194	Mountain-Ash - European	Sorbus aucuparia	7					7	2	5	Fair	DC, SF	1.2	Private	No	No
195	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, PP	1.5	Private	No	No
196	Serviceberry sp.	Amelanchier sp.	1					1	1	25	Fair	SP	1.2	City of Mississauga (Road ROW)	No	No
197	Maple - Manitoba	Acer negundo	23	9	5			25	5	10	Good	TK3, GTF, FK@3M, ETB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
198	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP	1.2	City of Mississauga (Road ROW)	No	No
199	Maple - Norway	Acer platanoides	4	2				4	1	15	Fair	TK2, LS, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
200	Maple - Norway	Acer platanoides	7					7	2	10	Fair	FS, GTF, TD, FK2@2M, SF,	1.2	City of Mississauga (Road ROW)	No	No
201	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP, TK2	1.2	City of Mississauga (Road ROW)	No	No
202	Maple - Manitoba	Acer negundo	18	17	14			28	8	10	Fair	TK3, GTF, ETB, SB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
203	Maple - Norway	Acer platanoides	2	1				2	1	25	Fair	TK2, PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
204	Maple - Norway	Acer platanoides	8					8	1	30	Fair	PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
205	Maple - Manitoba	Acer negundo	14	14	9			22	7	10	Good	TK3, GTF, RH, ST, PP, TD, WNC	1.8	City of Mississauga (Road ROW)	No	No
206	Cherry - Sweet	Prunus avium	6					6	1	15	Fair	PP, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
207	Maple - Manitoba	Acer negundo	4					4	1	20	Fair	GTF, PP, LS, RP	1.2	City of Mississauga (Road ROW)	No	No
208	Maple - Manitoba	Acer negundo	10	5	4			12	3	25	Poor	TK3, LN(M), GTF, SB, ST, PP, ML, RP	1.5	Private	No	No
209	Maple - Norway	Acer platanoides	13	12				18	6	20	Fair	GTF, TK2, PP, TD, WNC, ML PB	1.5	City of Mississauga (Road ROW)	No	No
210	Spruce - Norway	Picea abies	29					29	5	15	Good	PP, 1SD, RP	1.8	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
141	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	3967.48	No
142	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	1942.38	No
143	Maple - Silver	Acer saccharinum	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	7387.53	No
144	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	8664.70	No
145	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	315.98	No
146	Pine - Scots	Pinus sylvestris	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1043.33	No
147	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1976.06	No
148	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	850.15	No
149	Apple sp.	Malus sp.	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1202.25	No
150	Mulberry - White	Morus alba	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	299.63	No
151	Spruce - White	Picea glauca	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	2544.78	No
152	Honey-Locust	Gleditsia triacanthos	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4015.32	No
153	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 4 Impact Area	NA	NA	170.47	Yes
154	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 4 Impact Area	NA	NA	170.47	Yes
155	Birch - White	Betula papyrifera	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	175.97	No
156	Pine - Austrian	Pinus nigra	Retain	Outside Alternative 4 Study Area	NA	NA	4359.50	No
157	Juniper - Eastern	Juniperus virginiana	Retain	Outside Alternative 4 Study Area	NA	NA	407.67	No
158	Douglas-Fir	Pseudotsuga menziesii	Retain	Outside Alternative 4 Study Area	NA	NA	2321.74	No
159	Juniper - Eastern	Juniperus virginiana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	333.94	No
160	Douglas-Fir	Pseudotsuga menziesii	Retain	Outside Alternative 4 Study Area	NA	NA	866.90	No
161	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	117.88	No
162	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	105.67	No
163	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	75.61	No
164	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	280.95	No
165	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	187.26	No
166	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	165.77	No
167	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	207.09	No
168	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	559.15	No
169	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	703.51	No
170	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	185.49	No
171	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	5642.58	No
172	Juniper - Eastern	Juniperus virginiana	Retain	Outside Alternative 4 Study Area	NA	NA	1621.21	No
173	Juniper - Eastern	Juniperus virginiana	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1817.34	No
174	Mountain-Ash - European	Sorbus aucuparia	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	735.43	No
175	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	4449.09	No
176	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 4 Study Area	NA	NA	7623.86	No
177	Maple - Silver	Acer saccharinum	Remove	Alternative 4 Impact Area	5	NA	7387.53	Yes
178	Apple sp.	Malus sp.	Remove	Alternative 4 Impact Area	3	NA	3906.96	Yes
179	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 4 Study Area	NA	NA	72.81	No
180	Cherry - Sweet	Prunus avium	Protect	Alternative 4 Study Area	NA	NA	2646.72	No
181	Mulberry - White	Morus alba	Remove	Alternative 4 Impact Area	3	NA	4029.57	Yes
182	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 4 Impact Area	NA	NA	206.41	Yes
183	Cherry - Sweet	Prunus avium	Protect - Minor Injury	Alternative 4 Study Area	NA	NA	4898.89	No
184	Spruce - Colorado	Picea pungens	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	7706.32	No
185	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	2275.19	No
186	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 4 Study Area	NA	NA	2413.33	No
187	Spruce - Colorado	Picea pungens	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	4449.09	No
188	Apple sp.	Malus sp.	Protect	Outside Alternative 4 Study Area	NA	NA	1362.25	No
189	Apple sp.	Malus sp.	Protect	Alternative 4 Study Area	NA	NA	289.43	No
190	Apple sp.	Malus sp.	Protect	Alternative 4 Study Area	NA	NA	1027.81	No
191	Cherry - Sweet	Prunus avium	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	2016.44	No
192	Serviceberry sp.	Amelanchier sp.	Protect	Alternative 4 Study Area	NA	NA	170.47	No
193	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 4 Study Area	NA	NA	189.34	No
194	Mountain-Ash - European	Sorbus aucuparia	Protect	Outside Alternative 4 Study Area	NA	NA	263.01	No
195	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 4 Study Area	NA	NA	920.43	No
196	Serviceberry sp.	Amelanchier sp.	Protect	Alternative 4 Study Area	NA	NA	165.20	No
197	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	850.07	No
198	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	220.91	No
199	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	282.08	No
200	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	337.54	No
201	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	220.91	No
202	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	808.13	No
203	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	261.92	No
204	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	362.75	No
205	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	679.22	No
206	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 4 Study Area	NA	NA	213.99	No
207	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
208	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	116.91	No
209	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	799.69	No
210	Spruce - Norway	Picea abies	Retain	Outside Alternative 4 Study Area	NA	NA	2232.40	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
211	Maple - Manitoba	Acer negundo	5					5	2	30	Poor	GTF, PP, MB, TD, SB, LS	1.2	City of Mississauga (Road ROW)	No	No
212	Spruce - Norway	Picea abies	31					31	5	15	Good	SL, SF	2.4	Private	No	No
213	Apple sp.	Malus sp.	6	6	6	5		12	2	5	Fair	TK4, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
214	Apple sp.	Malus sp.	12					12	3	20	Fair	LT, PP, MB, WNC, SC,	1.5	Private	No	No
215	Cherry - Sweet	Prunus avium	48					48	5	35	Fair	PP, RH, FK@3M, CD, PC, RP	3	Private	No	No
216	Spruce - Colorado	Picea pungens	47					47	6	25	Fair	LT, PL, CD, CN	3	Private	No	No
217	Mulberry - White	Morus alba	8	7	7	5		14	8	10	Good	TK4, PP, TW, WNC, MB, FS, RP, LT	1.5	City of Mississauga (Road ROW)	No	No
218	Spruce - White	Picea glauca	27					27	5	15	Good	ER, LT, PP, DC	1.8	Private	No	No
219	Cedar - Eastern-White	Thuja occidentalis	8	7	5			12	2	0	Fair	LS, PP, CS	1.5	Private	No	No
220	Spruce - White	Picea glauca	35					35	9	5	Good	LT, SF, DC, PP, TW, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
221	Mulberry - White	Morus alba	7	5				9	4	5	Fair	TK2, LN (L), ST, RP	1.2	City of Mississauga (Road ROW)	No	No
222	Cherry - Sweet	Prunus avium	20					20	6	10	Good	PB, TW, WNC, MB, RP	1.5	Private	No	No
223	Maple - Silver	Acer saccharinum	42					42	15	10	Good	LT, FK4@3M, MB, DC, SN, PP, WNC	3	Private	No	No
224	Cherry sp.	Prunus sp.	4	3	3			6	2	15	Fair	TK3, ML, RP	1.2	Private	No	No
225	Cherry sp.	Prunus sp.	7					7	2	10	Fair	1SD, ML, DC	1.2	Private	No	No
226	Pine - Austrian	Pinus nigra	32					32	9	10	Good	LT, PP, TW, WNC, 1SD, DW, BR3	2.4	City of Mississauga (Road ROW)	No	No
227	Pine - Austrian	Pinus nigra	30					30	8	10	Good	LT, LNM, PP, WNC, DW,	1.8	City of Mississauga (Road ROW)	No	No
228	Maple - Silver	Acer saccharinum	12	11	10	9	8	23	5	5	Good	TK8, SB, FS, ML, RP	1.8	Private	No	No
229	Pine - Austrian	Pinus nigra	27					27	8	10	Good	LT, PP, TW, WNC, 1SD, DW	1.8	Private	No	No
230	Spruce - White	Picea glauca	33					33	6	10	Good	DC, SF, PP	4	Private	Yes	No
231	Spruce - White	Picea glauca	21					21	0	100	Hazard	DW, PB, HP, R,	0	Private	Yes	No
232	Maple - Manitoba	Acer negundo	20	19	16	15		35	10	25	Fair	TK4, SB, FS, GTF, PP, UW, SN, CT, VC, RP	6	City of Mississauga (Road ROW)	Yes	No
233	Cedar - Eastern-White	Thuja occidentalis	14	16	14			25	5	35	Fair	LT, PP, CS, BR1, TW, WC, WNC, SF, PF, BSD,	3.5	City of Mississauga (Road ROW)	Yes	No
234	Maple - Norway	Acer platanoides	12					12	4	10	Good	1SD, UC, LS	3	City of Mississauga (Road ROW)	Yes	No
235	Maple - Norway	Acer platanoides	19					19	8	10	Good	LN (L), FK@2M, UW, RP	5	City of Mississauga (Road ROW)	Yes	No
236	Cedar - Eastern-White	Thuja occidentalis	38					38	6	25	Fair	FK2@2M, SF, PP, SN, DW, ER, IB, LT, CS	4	City of Mississauga (Road ROW)	Yes	No
237	Maple - Norway	Acer platanoides	13	10	9			19	7	10	Good	TK3, DW, FS, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
238	Maple - Norway	Acer platanoides	25					25	6	10	Good	GC, FK@2M, UW, RP	4	City of Mississauga (Road ROW)	Yes	No
239	Cedar - Eastern-White	Thuja occidentalis	14	14				20	4	15	Good	LT, TK2, CS, IB, PP, WC, SF	3	City of Mississauga (Road ROW)	Yes	No
240	Maple - Norway	Acer platanoides	19	14	13			27	7	20	Fair	TK3, FS, 1SD, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
241	Maple - Norway	Acer platanoides	18					18	9	10	Good	UW, LT, PP, DW, RP, FK2@2M, BR1	5.5	City of Mississauga (Road ROW)	Yes	No
242	Maple - Norway	Acer platanoides	22					22	6	10	Good	GTF, FK@2M, MB, UW, TW, WNC, DW, RP	4	City of Mississauga (Road ROW)	Yes	No
243	Fir - Balsam	Abies balsamea	25					25	6	10	Good	LT, DC, SF	4	Private	Yes	No
244	Maple - Norway	Acer platanoides	32					32	13	10	Good	GTF, UW, TW, WC, FK2@3M, DW, PP, MB	7.5	City of Mississauga (Road ROW)	Yes	No
245	Maple - Norway	Acer platanoides	43					43	10	70	Poor	LT, GTF, PF, FK3@1.5M, BR3, BSD, WNC, SN, PP, DW, BC, CD, RP, SC	6	City of Mississauga (Park)	Yes	Yes
246	Maple - Norway	Acer platanoides	5	5	5	4	4	10	4	50	Poor	RFS, TK7, DW, GTF, UW, FS, WNC, PB, RP,	3	City of Mississauga (Road ROW)	Yes	No
247	Maple - Norway	Acer platanoides	3					3	2	10	Fair	RFF, GTF, PP	2.4	City of Mississauga (Park)	Yes	Yes
248	Maple - Norway	Acer platanoides	13	15	10			22	6	20	Poor	GTF, LT, UW, PP, MB, PB, DW, RT, RP	4	City of Mississauga (Road ROW)	Yes	No
249	Cherry - Sweet	Prunus avium	5					5	1	5	Fair	GTF, SL, LS	2.4	City of Mississauga (Park)	Yes	Yes
250	Maple - Manitoba	Acer negundo	13	11				17	5	30	Fair	TK2, FS, GTF, LS, RP	3.5	City of Mississauga (Park)	Yes	Yes
251	Maple - Norway	Acer platanoides	18					18	9	10	Good	LT, RH, PP, UW, CS, LNL, RP	5.5	Private	Yes	No
252	Elm - Siberian	Ulmus pumila	61					61	11	10	Good	FK@2M, FK@3M, RH, ST, PF, NST, DC, RP	8.4	City of Mississauga (Park)	Yes	Yes
253	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	FK@2M, GTF, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
254	Maple - Manitoba	Acer negundo	12					12	4	15	Fair	GTF, CT, SL	3	City of Mississauga (Park)	Yes	Yes
255	Maple - Manitoba	Acer negundo	16	17	17	11	19	36	13	20	Fair	PF, GTF, SC, ST, SB, PP, DW, WNC, BR2, IB, TK6	7.5	City of Mississauga (Park)	Yes	Yes
256	Apple sp.	Malus sp.	30	12				32	7	10	Good	TK2, FK@2M, GTF, SB, 1SD, FS, FK@4M, SC, RP	4.8	City of Mississauga (Park)	Yes	Yes
257	Maple - Manitoba	Acer negundo	17	18				25	8	10	Fair	TK2, LNM, ST, SB, RP, MB	5	City of Mississauga	Yes	Yes
258	Maple - Manitoba	Acer negundo	29					29	6	15	Good	GTF, LN (L), CT, SC, RP	4	City of Mississauga (Park)	Yes	Yes
259	Elm - Siberian	Ulmus pumila	45	42				62	8	15	Good	TK2, IB, FS, LN (M), 1SD	8.4	City of Mississauga (Park)	Yes	Yes
260	Maple - Norway	Acer platanoides	4	5	5	4	4	10	3	10	Poor	ML, MB, LNL, LS, 1SD, BSD, RFS, TK5, WC	2.5	City of Mississauga	Yes	Yes
261	Maple - Manitoba	Acer negundo	39	29	20			53	13	25	Fair	TK3, SB, PF, FK@3M, DW, CT, LN (M), RP	7.5	City of Mississauga (Park)	Yes	Yes
262	Maple - Norway	Acer platanoides	16					16	6	10	Good	GTF, SB, ETB, LS, PP, FS	4	City of Mississauga (Park)	Yes	Yes
263	Cottonwood - Eastern	Populus deltoides	78					78	0	100	Hazard	DW, PP, PB, PC, HP, RM	0	City of Mississauga (Park)	Yes	Yes
264	Maple - Manitoba	Acer negundo	4	3	3	3	3	7	5	5	Fair	TK8, BSD, TD, RT, RP, MB, CT, LNL	3.5	City of Mississauga	Yes	Yes
265	Spruce - Colorado	Picea pungens	17					17	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
266	Spruce - Colorado	Picea pungens	16					16	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
267	Maple - Manitoba	Acer negundo	6	4	3	3	3	9	5	10	Fair	TK5, MB, RT, CT, 1SD, LNL, BSD	3.5	City of Mississauga	Yes	Yes
268	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
269	Spruce - Colorado	Picea pungens	5	5				7	2	0	Fair	LT, RH, TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
270	Spruce - White	Picea glauca	12					12	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
271	Maple - Manitoba	Acer negundo	10	7	3	3		13	5	10	Fair	TK4, RT, LNL, LS, 1SD, TW, WC	3.5	City of Mississauga	Yes	Yes
272	Spruce - White	Picea glauca	10					10	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
273	Spruce - White	Picea glauca	10					10	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
274	Spruce - White	Picea glauca	12					12	3	5	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
275	Maple - Manitoba	Acer negundo	9	5	5	5	4	13	5	10	Fair	TK7, MB, RT, LS, CT, ST,	3.5	City of Mississauga	Yes	Yes
276	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
277	Spruce - White	Picea glauca	9					9	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
278	Maple - Manitoba	Acer negundo	8	5	3			10	4	15	Fair	TK3, SB, ST, MB, RT, LS, CT	3	City of Mississauga	Yes	Yes
279	Maple - Manitoba	Acer negundo	5	3	3	3		7	3	15	Fair	TK3, RT, MB, SB, CT, LS, SC	2.5	City of Mississauga	Yes	Yes
280	Pine - Eastern White	Pinus strobus	24					24	5	5	Good	LY, DC, SF	3.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
211	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	53.82	No
212	Spruce - Norway	Picea abies	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	2504.09	No
213	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	378.17	No
214	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	378.17	No
215	Cherry - Sweet	Prunus avium	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	3520.98	No
216	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4439.76	No
217	Mulberry - White	Morus alba	Retain	Outside Alternative 4 Study Area	NA	NA	656.01	No
218	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	2097.33	No
219	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	401.09	No
220	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	3283.58	No
221	Mulberry - White	Morus alba	Retain	Outside Alternative 4 Study Area	NA	NA	326.52	No
222	Cherry - Sweet	Prunus avium	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	960.96	No
223	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	3643.17	No
224	Cherry sp.	Prunus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	182.32	No
225	Cherry sp.	Prunus sp.	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	199.02	No
226	Pine - Austrian	Pinus nigra	Retain	Outside Alternative 4 Study Area	NA	NA	2348.51	No
227	Pine - Austrian	Pinus nigra	Retain	Outside Alternative 4 Study Area	NA	NA	2099.40	No
228	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	1280.22	No
229	Pine - Austrian	Pinus nigra	Retain	Outside Alternative 4 Study Area	NA	NA	1755.86	No
230	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	2958.32	No
231	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	176.07	No
232	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1222.28	No
233	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	1256.97	No
234	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	641.54	No
235	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1112.08	No
236	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	2714.29	No
237	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1112.08	No
238	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1684.55	No
239	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	1105.30	No
240	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1480.30	No
241	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1031.85	No
242	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1378.80	No
243	Fir - Balsam	Abies balsamea	Retain	Outside Alternative 4 Study Area	NA	NA	1165.13	No
244	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2549.75	No
245	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	1898.18	No
246	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	238.93	No
247	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	270.32	No
248	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	603.23	No
249	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 4 Study Area	NA	NA	197.95	No
250	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	343.26	No
251	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1031.85	No
252	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	4795.81	No
253	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	117.88	No
254	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	207.09	No
255	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1288.96	No
256	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2087.50	No
257	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	658.81	No
258	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1111.82	No
259	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	4948.78	No
260	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	238.93	No
261	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	2709.84	No
262	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	884.40	No
263	Cottonwood - Eastern	Populus deltoides	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	1651.80	No
264	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	117.88	No
265	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1075.54	No
266	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	995.56	No
267	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	147.93	No
268	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	758.01	No
269	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	382.76	No
270	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	698.22	No
271	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	230.57	No
272	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	592.99	No
273	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	592.99	No
274	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	698.22	No
275	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	230.57	No
276	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	758.01	No
277	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	547.54	No
278	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	165.77	No
279	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	117.88	No
280	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	1689.29	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
281	Pine - Eastern White	Pinus strobus	22					22	4	15	Good	LT, DC, DW, RP	3	Private	Yes	No
282	Pine - Eastern White	Pinus strobus	21					21	3	10	Good	LT, SL, SF	2.5	Private	Yes	No
283	Walnut - Black	Juglans nigra	5	4				6	3	20	Fair	TK2, RT, FS, CR, SF, LS	2.5	City of Mississauga	Yes	Yes
284	Pine - Eastern White	Pinus strobus	23					23	5	0	Good	LT, DC, SF	3.5	Private	Yes	No
285	Spruce - White	Picea glauca	8					8	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
286	Spruce - White	Picea glauca	5	4				6	1	10	Fair	LT, TK2, ML, RP, RH	2.4	City of Mississauga	Yes	Yes
287	Maple - Manitoba	Acer negundo	9					9	5	10	Good	LNL, FK2@2.5M, UC, RP	3.5	City of Mississauga	Yes	Yes
288	Spruce - White	Picea glauca	8					8	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
289	Maple - Manitoba	Acer negundo	4					4	2	15	Fair	LS, SF, LNL, CT, RP	2.4	City of Mississauga	Yes	Yes
290	Spruce - White	Picea glauca	9					9	2	10	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
291	Spruce - White	Picea glauca	7					7	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
292	Maple - Manitoba	Acer negundo	4					4	1	30	Fair	LS, FS, RP, CT, SF	2.4	City of Mississauga	Yes	Yes
293	Spruce - White	Picea glauca	8					8	3	10	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
294	Pine - Eastern White	Pinus strobus	7					7	0	100	Dead	DW, RM	0	Private	Yes	No
295	Pine - Eastern White	Pinus strobus	21					21	5	15	Good	LT, SF	3.5	Private	Yes	No
296	Maple - Manitoba	Acer negundo	4	3	4			6	3	5	Fair	LS, TK2, CT, RT	2.5	City of Mississauga	Yes	Yes
297	Pine - Eastern White	Pinus strobus	19					19	4	5	Good	LT, DC, SF	3	Private	Yes	No
298	Pine - Eastern White	Pinus strobus	18					18	3	25	Fair	LT, DC, SF, CD	2.5	Private	Yes	No
299	Pine - Eastern White	Pinus strobus	20					20	4	10	Fair	FK@2M, LT, ML, RP	3	Private	Yes	No
300	Pine - Eastern White	Pinus strobus	19					19	3	15	Fair	FK@3M, LT, ML, RP	2.5	Private	Yes	No
301	Maple - Norway	Acer platanoides	46					46	10	10	Good	LT, FK@4M, MB, DC, RP	6	Private	Yes	No
302	Elm - Siberian	Ulmus pumila	6					6	2	15	Fair	GTF, 1SD, UC	2.4	City of Mississauga	Yes	Yes
303	Olive - Russian	Elaeagnus angustifolia	69					69	18	30	Good	ER, BSD, DC, FK2@2M, BR3, DW, SC, SN, PP, WNC, RP, PB	10	City of Mississauga	Yes	Yes
304	Ash - White	Fraxinus americana	7					7	2	35	Fair	ML, EAB, PB, RM	2.4	City of Mississauga	Yes	Yes
305	Ash - White	Fraxinus americana	5					5	2	65	Poor	EAB, DW, RM	2.4	City of Mississauga	Yes	Yes
306	Maple - Manitoba	Acer negundo	7	4				8	4	15	Fair	TK2, LS, SF, TD, WC, CT	3	City of Mississauga	Yes	Yes
307	Maple - Manitoba	Acer negundo	11	8				14	5	10	Good	TK2, MB, SC, RP	3.5	City of Mississauga	Yes	Yes
308	Maple - Manitoba	Acer negundo	5	3	3			7	4	20	Fair	LS, TK3, SF, CT, PP, WNC, RT	3	City of Mississauga	Yes	Yes
309	Maple - Manitoba	Acer negundo	17					17	5	5	Good	FK@2M, DC, RP	3.5	City of Mississauga	Yes	Yes
310	Walnut - Black	Juglans nigra	3					3	1	5	Fair	SL, SF	2.4	City of Mississauga	Yes	Yes
311	Maple - Manitoba	Acer negundo	7					7	3	20	Poor	LS, SF, LNM, RH, UC, BSD	2.5	City of Mississauga	Yes	Yes
312	Maple - Sugar	Acer saccharum	14					14	5	5	Good	DC, SF, NST	3.5	City of Mississauga	Yes	Yes
313	Maple - Manitoba	Acer negundo	13					13	8	10	Good	LT, CT, SB, RP	5	City of Mississauga	Yes	Yes
314	Maple - Sugar	Acer saccharum	12					12	4	10	Good	DC, SF	3	City of Mississauga	Yes	Yes
315	Maple - Manitoba	Acer negundo	6	3	2			7	3	20	Fair	TK3, SB, 1SD, LS	2.5	City of Mississauga	Yes	Yes
316	Maple - Manitoba	Acer negundo	25					25	10	10	Good	GTF, FK2@4M, UC, LNL, MB, RP	6	City of Mississauga	Yes	Yes
317	Maple - Sugar	Acer saccharum	14					14	5	5	Good	MB, DC	3.5	City of Mississauga	Yes	Yes
318	Maple - Sugar	Acer saccharum	14					14	5	0	Good	MB, FS, DC, RP	3.5	City of Mississauga	Yes	Yes
319	Spruce - Colorado	Picea pungens	33					33	6	5	Good	LT, PP, SF	4.8	City of Mississauga	Yes	Yes
320	Maple - Sugar	Acer saccharum	13					13	5	5	Good	MB, DC, BR1, FS, RP	3.5	City of Mississauga	Yes	Yes
321	Maple - Sugar	Acer saccharum	15					15	5	5	Good	DC, MB, FS, RP	3.5	City of Mississauga	Yes	Yes
322	Maple - Manitoba	Acer negundo	5	3	2	2		6	4	15	Fair	TK4, LS, 1SD, RP, RT	3	City of Mississauga	Yes	Yes
323	Maple - Norway	Acer platanoides	28					28	10	15	Good	FK2@4M, 1SD, UC, LNL,	6	City of Mississauga	Yes	Yes
324	Maple - Manitoba	Acer negundo	3	3	3			5	3	5	Fair	TK3, RT, SB, RFS	2.5	City of Mississauga	Yes	Yes
325	Maple - Manitoba	Acer negundo	6					6	3	5	Good	RT, SB, RP	2.5	City of Mississauga	Yes	Yes
326	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	Fair	2.4	City of Mississauga	Yes	Yes
327	Spruce - White	Picea glauca	13					13	3	0	Good	LT, SF, DC	2.5	City of Mississauga	Yes	Yes
328	Spruce - White	Picea glauca	13					13	3	5	Good	SF, DC	2.5	City of Mississauga	Yes	Yes
329	Spruce - White	Picea glauca	14					14	4	0	Good	DC, SF	3	City of Mississauga	Yes	Yes
330	Maple - Manitoba	Acer negundo	6	5				8	2	10	Fair	TK2, SB, ML, FK@3M, RP, RT	2.4	City of Mississauga	Yes	Yes
331	Spruce - White	Picea glauca	12					12	3	15	Good	SL, PP, WNC, LS	2.5	City of Mississauga	Yes	Yes
332	Spruce - White	Picea glauca	10					10	3	10	Good	DC, SF	2.5	City of Mississauga	Yes	Yes
333	Spruce - White	Picea glauca	9					9	3	15	Good	LS, 1SD, SF	2.5	City of Mississauga	Yes	Yes
334	Spruce - White	Picea glauca	3					3	1	25	Fair	LS, PL, DW, RP	2.4	City of Mississauga	Yes	Yes
335	Spruce - White	Picea glauca	5					5	2	10	Fair	DC, SF, LS, PL	2.4	City of Mississauga	Yes	Yes
336	Spruce - White	Picea glauca	6					6	2	25	Fair	LS, PL, CD	2.4	City of Mississauga	Yes	Yes
337	Maple - Manitoba	Acer negundo	13					13	4	10	Good	ER, FK@3M, ML, RP	3	City of Mississauga	Yes	Yes
338	Spruce - White	Picea glauca	6					6	2	15	Fair	LS, DC, FS, SF	2.4	City of Mississauga	Yes	Yes
339	Maple - Norway	Acer platanoides	25					25	9	10	Good	CS, 1SD, UC, PP	5.5	City of Mississauga	Yes	Yes
340	Cedar - Eastern-White	Thuja occidentalis	5	4				6	1	10	Fair	TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
341	Apple sp.	Malus sp.	15	15	10			23	4	30	Fair	LS, SC, MB, CT, TK3, DW	3.6	City of Mississauga	Yes	Yes
342	Alder - European	Alnus glutinosa	7					7	2	20	Fair	CT, SL, DE (canker)	2.4	City of Mississauga	Yes	Yes
343	Maple - Norway	Acer platanoides	18					18	8	10	Good	LT, SN, SF	5	City of Mississauga	Yes	Yes
344	Maple - Norway	Acer platanoides	12					12	3	20	Fair	LS, SL, FK2@5M, IB	2.5	City of Mississauga	Yes	Yes
345	Walnut - Black	Juglans nigra	16					16	5	25	Fair	LN (L), CT, FK@6M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
346	Maple - Norway	Acer platanoides	12					12	3	100	Dead	GTF, Dead	0	City of Mississauga	Yes	Yes
347	Maple - Manitoba	Acer negundo	18					18	4	15	Good	TOB, LN (L), CT, 1SD	3	City of Mississauga	Yes	Yes
348	Walnut - Black	Juglans nigra	3					3	2	25	Fair	SP, SL, LS, CT	2.4	City of Mississauga	Yes	Yes
349	Maple - Norway	Acer platanoides	23	4				23	7	10	Good	1SS, UC, ER, TK2, RT	4.5	City of Mississauga	Yes	Yes
350	Maple - Norway	Acer platanoides	12	11	8			18	4	20	Good	TK3, TOB, SL, RP, RT	3	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
281	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	1469.26	No
282	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	1366.42	No
283	Walnut - Black	Juglans nigra	Retain	Outside Alternative 4 Study Area	NA	NA	315.91	No
284	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	1576.88	No
285	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	506.89	No
286	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	340.94	No
287	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	190.87	No
288	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	506.89	No
289	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
290	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	547.54	No
291	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	471.01	No
292	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
293	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	506.89	No
294	Pine - Eastern White	Pinus strobus	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	53.61	No
295	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	1366.42	No
296	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	105.67	No
297	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	1175.08	No
298	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	842.11	No
299	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	982.98	No
300	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 4 Study Area	NA	NA	910.69	No
301	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4917.67	No
302	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	165.03	No
303	Olive - Russian	Elaeagnus angustifolia	Retain	Outside Alternative 4 Study Area	NA	NA	8717.27	No
304	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	245.97	No
305	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	114.75	No
306	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	131.96	No
307	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	330.23	No
308	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	117.88	No
309	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	442.92	No
310	Walnut - Black	Juglans nigra	Retain	Outside Alternative 4 Study Area	NA	NA	271.20	No
311	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	66.54	No
312	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	849.32	No
313	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	297.51	No
314	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	721.64	No
315	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	117.88	No
316	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	850.07	No
317	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	849.32	No
318	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	849.32	No
319	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	3014.36	No
320	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	783.03	No
321	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	920.53	No
322	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	105.67	No
323	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2029.33	No
324	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	95.34	No
325	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	136.34	No
326	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
327	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	758.01	No
328	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	758.01	No
329	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	822.58	No
330	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	131.96	No
331	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	698.22	No
332	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	592.99	No
333	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	547.54	No
334	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	290.89	No
335	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	320.55	No
336	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	340.94	No
337	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	297.51	No
338	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	340.94	No
339	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1684.55	No
340	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	208.92	No
341	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	920.51	No
342	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	225.00	No
343	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1031.85	No
344	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	497.19	No
345	Walnut - Black	Juglans nigra	Retain	Outside Alternative 4 Study Area	NA	NA	680.19	No
346	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	80.19	No
347	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	485.33	No
348	Walnut - Black	Juglans nigra	Retain	Outside Alternative 4 Study Area	NA	NA	271.20	No
349	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1476.38	No
350	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1031.85	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
351	Maple - Manitoba	Acer negundo	17	14				22	0	100	Dead	TK2, BOB, CT, DW, PB, RM	0	City of Mississauga	Yes	Yes
352	Maple - Silver	Acer saccharinum	6	4				7	4	20	Poor	TK2, ER, RH, SL, LNL, growing out of rip rap	3	City of Mississauga	Yes	Yes
353	Maple - Norway	Acer platanoides	32					32	10	15	Good	BOB, GTF, MB, SN, RP	6	City of Mississauga	Yes	Yes
354	Maple - Norway	Acer platanoides	34					34	11	10	Good	ER, TOB, MB, FS, SN, RP	6.5	Private	Yes	No
355	Maple - Norway	Acer platanoides	23	22				32	11	10	Good	TK2, IB, ER, SN, FS	6.5	City of Mississauga	Yes	Yes
356	Maple - Sugar	Acer saccharum	27					27	6	35	Fair	FK@4M, TOB, SL, RH, CD, DW, RP	4	Private	Yes	No
357	Spruce - White	Picea glauca	5					5	1	60	Poor	LS, 1SD, CD, UC	2.4	City of Mississauga	Yes	Yes
358	Maple - Norway	Acer platanoides	16					16	4	10	Good	GTF, BOB, FK@6M, ML, RP	3	City of Mississauga	Yes	Yes
359	Maple - Norway	Acer platanoides	14	12				18	5	15	Good	TK2, BOB, GTF, SN	3.5	City of Mississauga	Yes	Yes
360	Maple - Manitoba	Acer negundo	16					16	6	100	Dead	BSD, DW, Dead	0	City of Mississauga	Yes	Yes
361	Cherry - Sweet	Prunus avium	21	18	11	10		31	3	45	Poor	TK4, CD, CS, DW, RP	2.5	Private	Yes	No
362	Maple - Norway	Acer platanoides	6	5				8	4	15	Poor	PF, GTF, TK2, SL, LS, BSD, WNC	3	City of Mississauga	Yes	Yes
363	Maple - Manitoba	Acer negundo	40					40	9	25	Fair	ER, SB, TOB, FK@2M, LN (M), 1SD, UC, DW, RP	5.5	City of Mississauga	Yes	Yes
364	Elm - Siberian	Ulmus pumila	8					8	4	10	Fair	RB, CT, 1SD, ML, RP	3	Private	Yes	No
365	Ash - White	Fraxinus americana	3					3	2	35	Fair	SL, LS	2.4	City of Mississauga	Yes	Yes
366	Ash - White	Fraxinus americana	18					18	0	100	Dead	EAB, DW, SN, RM	0	City of Mississauga	Yes	Yes
367	Maple - Silver	Acer saccharinum	53	44				69	18	20	Good	TK2, IB, SC, SN, DW, DC, RP, RT	10	City of Mississauga	Yes	Yes
368	Elm - Siberian	Ulmus pumila	31					31	6	25	Fair	1SD, NST, SN, CD	4	Private	Yes	No
369	Maple - Manitoba	Acer negundo	3	2	2	2	2	5	2	20	Poor	RFS, TK5, DW, RT	2.4	City of Mississauga	Yes	Yes
370	Elm - Siberian	Ulmus pumila	8					8	2	50	Poor	TOB, LN(L), 1SD	2	Private	Yes	No
371	Maple - Norway	Acer platanoides	4					4	1	20	Fair	SL, LS, CT	1.5	Private	Yes	No
372	Ash - White	Fraxinus americana	4					4	0	100	Dead	DW, RM	0	Private	Yes	No
373	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
374	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
375	Elm - Siberian	Ulmus pumila	23					23	6	20	Fair	LN (M), CT, DW, SL, RP	4	Private	Yes	No
376	Maple - Norway	Acer platanoides	15	16				22	10	10	Good	TK2, TD, WNC, SN, PP, UC, 1SD	6	City of Mississauga	Yes	Yes
377	Spruce - White	Picea glauca	19					19	6	15	Good	LS, PP, WC,	4	City of Mississauga	Yes	Yes
378	Maple - Manitoba	Acer negundo	31					31	8	10	Good	MOB, LN(L), DE, CT, PF, RP	5	Private	Yes	No
379	Maple - Silver	Acer saccharinum	27	38	24			52	16	15	Good	TK3, DC, BR1, PP, WNC, DW	9	City of Mississauga	Yes	Yes
380	Ash - White	Fraxinus americana	4	3				5	1	25	Fair	TK2, SL, RT	1.5	Private	Yes	No
381	Maple - Manitoba	Acer negundo	30	11	10	10		35	11	40	Fair	TK4, GC, LN (M), CT, DW, 1SD, UC, RP	6.5	Private	Yes	No
382	Maple - Silver	Acer saccharinum	27	48				55	17	10	Good	TK2, FK2@1.5M, DC, CT	9.5	City of Mississauga	Yes	Yes
383	Ash - White	Fraxinus americana	18					18	0	100	Dead	LN (L), EAB, PB, DW, RM	0	Private	Yes	No
384	Apple sp.	Malus sp.	12	7				14	5	15	Good	TK2, LN (L), 1SD, UC, LS, RP	3.5	Private	Yes	No
385	Maple - Silver	Acer saccharinum	73					73	20	10	Good	FK2@1.4M, IB, SC, MB, FS, RP, PP, WNC, SN	11	City of Mississauga	Yes	Yes
386	Ash - White	Fraxinus americana	3	2				4	0	100	Dead	TK2, DW, RM	0	Private	Yes	No
387	Maple - Manitoba	Acer negundo	44					44	13	15	Fair	TT, CV, LN (L), CT, 1SD, UC, SB, SC, FS, PF, RP	7.5	Private	Yes	No
388	Maple - Silver	Acer saccharinum	49					49	16	15	Good	TW, WNC, SC, LNL, UC, RP	9	City of Mississauga	Yes	Yes
389	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, PB, DW, RM	0	Private	Yes	No
390	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, TK2, DW, Topped	0	Private	Yes	No
391	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
392	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
393	Maple - Manitoba	Acer negundo	16					16	4	40	Poor	CT, LN (L), DW, LS, SL	3	Private	Yes	No
394	Ash - White	Fraxinus americana	3					3	1	15	Fair	SP, SL, LS	1.5	Private	Yes	No
395	Spruce - White	Picea glauca	19					19	3	100	Dead	LS, DW, PB	0	Private	Yes	No
396	Ash - White	Fraxinus americana	5	4	3			7	3	30	Fair	TK3, EAB, SL, RM	2.5	Private	Yes	No
397	Spruce - White	Picea glauca	33					33	5	15	Good	ER, CT, UC, DW	4.8	City of Mississauga	Yes	Yes
398	Maple - Manitoba	Acer negundo	30	29				42	13	35	Poor	TK2, LN (H), DW, MB, CT, FS, RP	7.5	Private	Yes	No
399	Maple - Norway	Acer platanoides	9	4				10	6	10	Fair	TK2, TOB, ER, LS, SF, RT	4	Private	Yes	No
400	Ash - Green	Fraxinus pennsylvanica	3	2				4	1	10	Good	TK2, LS	2.4	City of Mississauga	Yes	Yes
401	Ash - White	Fraxinus americana	20					20	0	100	Dead	EAB, DW, MB, RM	0	Private	Yes	No
402	Maple - Norway	Acer platanoides	11					11	5	10	Good	BOB, LS, UC, DW	3.5	Private	Yes	No
403	Maple - Manitoba	Acer negundo	41					41	14	25	Fair	LN (L), FK@2M, DE, 1SD	8	Private	Yes	No
404	Maple - Norway	Acer platanoides	9	3				9	3	15	Good	BOB, SL, UC, TK2	2.5	Private	Yes	No
405	Maple - Norway	Acer platanoides	7					7	3	15	Fair	MOB, LS, SF	2.5	Private	Yes	No
406	Maple - Manitoba	Acer negundo	15					15	3	60	Poor	LN (H), DW, CD, RM	2.5	Private	Yes	No
407	Maple - Norway	Acer platanoides	3	2	2			4	3	10	Fair	TK3, LS, RT	2.5	Private	Yes	No
408	Maple - Norway	Acer platanoides	7	5				9	4	15	Fair	TK2, RT, UC, FS, RP, LS, TW, WC	3	City of Mississauga	Yes	Yes
409	Ash - White	Fraxinus americana	27					27	0	100	Fair	EAB, DW, BOB, DW, RM	3.6	City of Mississauga	Yes	Yes
410	Ash - White	Fraxinus americana	7					7	0	100	Dead	LN (M), BOB, ER, DW, RM	0	City of Mississauga	Yes	Yes
411	Ash - White	Fraxinus americana	12	12				17	4	100	Dead	RPM, TK2, PB, DW, fallen into creek	0	City of Mississauga	Yes	Yes
412	Cedar - Eastern-White	Thuja occidentalis	4	4				6	1	15	Fair	TK2, LS, DC	2.4	City of Mississauga	Yes	Yes
413	Cedar - Eastern-White	Thuja occidentalis	4	3				5	1	10	Good	LS, TK2, RT	2.4	City of Mississauga	Yes	Yes
414	Cedar - Eastern-White	Thuja occidentalis	5					5	1	10	Fair	DC, SF, PP	2.4	City of Mississauga	Yes	Yes
415	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	1	10	Good	TK4, LS, DC	2.4	City of Mississauga	Yes	Yes
416	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	15	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
417	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	10	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
418	Cedar - Eastern-White	Thuja occidentalis	4	4	3	3	2	7	2	10	Good	TK6, LS	2.4	City of Mississauga	Yes	Yes
419	Cedar - Eastern-White	Thuja occidentalis	3	1				3	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
420	Cedar - Eastern-White	Thuja occidentalis	4	3				5	2	5	Good	TK2, DC, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
351	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	84.90	No
352	Maple - Silver	Acer saccharinum	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	158.30	No
353	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2549.75	No
354	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2835.98	No
355	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2549.75	No
356	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 4 Study Area	NA	NA	1672.50	No
357	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	180.96	No
358	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	884.40	No
359	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1031.85	No
360	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	50.37	No
361	Cherry - Sweet	Prunus avium	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	882.19	No
362	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	204.78	No
363	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1574.45	No
364	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	192.02	No
365	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	174.80	No
366	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	118.60	No
367	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	9377.37	No
368	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	1056.57	No
369	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	53.82	No
370	Elm - Siberian	Ulmus pumila	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	108.40	No
371	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	282.08	No
372	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	30.20	No
373	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	1015.62	No
374	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	1015.62	No
375	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 4 Study Area	NA	NA	640.20	No
376	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1378.80	No
377	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	1217.20	No
378	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1257.23	No
379	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	5441.68	No
380	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	203.27	No
381	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1222.28	No
382	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	6055.86	No
383	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	118.60	No
384	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	582.48	No
385	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	10464.14	No
386	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	30.20	No
387	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1889.99	No
388	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	4861.95	No
389	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	48.86	No
390	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	48.86	No
391	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	1091.62	No
392	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	1091.62	No
393	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	176.28	No
394	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	174.80	No
395	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	152.15	No
396	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	245.97	No
397	Spruce - White	Picea glauca	Retain	Outside Alternative 4 Study Area	NA	NA	2958.32	No
398	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	975.75	No
399	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	423.25	No
400	Ash - Green	Fraxinus pennsylvanica	Retain	Outside Alternative 4 Study Area	NA	NA	219.71	No
401	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	140.41	No
402	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	591.66	No
403	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1650.52	No
404	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	504.93	No
405	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	337.54	No
406	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	159.85	No
407	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	282.08	No
408	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	391.32	No
409	Ash - White	Fraxinus americana	Retain	Outside Alternative 4 Study Area	NA	NA	1455.96	No
410	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	39.67	No
411	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	108.55	No
412	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	208.92	No
413	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	244.31	No
414	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	189.34	No
415	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	269.57	No
416	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
417	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
418	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	299.42	No
419	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	160.87	No
420	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	244.31	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
421	Cedar - Eastern-White	Thuja occidentalis	5					5	2	10	Fair	TK2, FS, RP	2.4	City of Mississauga	Yes	Yes
422	Cedar - Eastern-White	Thuja occidentalis	5	5				7	2	25	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
423	Cedar - Eastern-White	Thuja occidentalis	4	4	4	3		8	2	10	Good	TK4, LS	2.4	City of Mississauga	Yes	Yes
424	Cedar - Eastern-White	Thuja occidentalis	3	2	1			4	1	25	Fair	TK3, ML, RP	2.4	City of Mississauga	Yes	Yes
425	Cedar - Eastern-White	Thuja occidentalis	5	3	2			6	1	5	Good	LS, TK3	2.4	City of Mississauga	Yes	Yes
426	Cedar - Eastern-White	Thuja occidentalis	3	2				4	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
427	Cedar - Eastern-White	Thuja occidentalis	5					5	2	30	Fair	SF, LS	2.4	City of Mississauga	Yes	Yes
428	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	1	10	Good	LS, FS, TK5	2.4	City of Mississauga	Yes	Yes
429	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	1	6	2	15	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
430	Cedar - Eastern-White	Thuja occidentalis	3	2	2	1		4	1	15	Fair	TK4, LS, FS, RP	2.4	City of Mississauga	Yes	Yes
431	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2	2	5	1	10	Fair	TK6, FS, LS	2.4	City of Mississauga	Yes	Yes
432	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2		5	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
433	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	2	30	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
434	Cedar - Eastern-White	Thuja occidentalis	3	3	3	2		6	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
435	Cedar - Eastern-White	Thuja occidentalis	4	4				6	3	15	Fair	TK2, DC, RP	2.5	City of Mississauga	Yes	Yes
436	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	2	10	Fair	TK4, DC, RP	2.4	City of Mississauga	Yes	Yes
437	Cedar - Eastern-White	Thuja occidentalis	3	3				4	1	15	Good	LS, TK2, FS, MB	2.4	City of Mississauga	Yes	Yes
438	Cedar - Eastern-White	Thuja occidentalis	4	3	3	3		7	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga	Yes	Yes
439	Cedar - Eastern-White	Thuja occidentalis	4	3	3			6	2	10	Good	TK3, ML, LS, FS	2.4	City of Mississauga	Yes	Yes
440	Maple - Norway	Acer platanoides	34					34	6	25	Fair	PP, 1SD, UC, FK@4M	4	Private	Yes	No
441	Spruce - Colorado	Picea pungens	17					17	2	85	Poor	CD, DW, SL, PP, RM	2	City of Mississauga (Road ROW)	Yes	No
442	Maple - Manitoba	Acer negundo	4	4				6	2	5	Good	LT, TK2	2	Private	Yes	No
443	Walnut - Black	Juglans nigra	11					11	5	15	Good	CS, MB, ML, RP	3.5	Private	Yes	No
444	Spruce - Colorado	Picea pungens	30					30	8	25	Fair	CD, DW, DC, SF	5	Private	Yes	No
445	Alder - European	Alnus glutinosa	7					7	3	25	Good	LNM, DW, BR1, SB	2.5	City of Mississauga	Yes	Yes
446	Alder - European	Alnus glutinosa	8	3				9	2	30	Good	TK2, SL, DW	2.4	City of Mississauga	Yes	Yes
447	Maple - Silver	Acer saccharinum	7	5	3			9	3	10	Fair	TK3, RH, FS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
448	Alder - European	Alnus glutinosa	11	9				14	4	10	Good	TK2, SL, SF, RT	3	City of Mississauga	Yes	Yes
449	Maple - Manitoba	Acer negundo	9					9	2	20	Good	SL, LS, DW	2.4	City of Mississauga	Yes	Yes
450	Maple - Manitoba	Acer negundo	13	10	9	9		21	7	10	Good	TK4, MB, ML, RP, RT	4.5	City of Mississauga	Yes	Yes
451	Maple - Manitoba	Acer negundo	15	10				18	6	25	Fair	MB, RP, DW	4	City of Mississauga	Yes	Yes
452	Maple - Manitoba	Acer negundo	9	7				11	5	20	Good	MB, RT, RP, DW, CT, SB	3.5	City of Mississauga	Yes	Yes
453	Maple - Silver	Acer saccharinum	14	13	12			23	5	5	Good	TK3, SB, FS, SN, CT, ML, RP	3.6	City of Mississauga	Yes	Yes
454	Alder - European	Alnus glutinosa	9					9	2	15	Good	SL, SF, DE (canker)	2.4	City of Mississauga	Yes	Yes
455	Alder - European	Alnus glutinosa	7					7	1	25	Good	DE, SL, LS, DW	2.4	City of Mississauga	Yes	Yes
456	Maple - Manitoba	Acer negundo	9	7				11	4	15	Fair	TK2, SL, CT, DW, RT	3	City of Mississauga	Yes	Yes
457	Maple - Manitoba	Acer negundo	8	8	7	6		15	7	15	Good	TK4, UC, RT, RP, TD, MB	4.5	City of Mississauga	Yes	Yes
458	Maple - Silver	Acer saccharinum	17					17	4	10	Good	FK@2M, SL, RP	3	City of Mississauga	Yes	Yes
459	Alder - European	Alnus glutinosa	10	9	5			14	5	15	Good	TK3, DW, DE, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
460	Maple - Manitoba	Acer negundo	24					24	6	10	Good	LN (L), FK@3M, DW, RP	4	City of Mississauga	Yes	Yes
461	Maple - Manitoba	Acer negundo	5	5	7	5	4	12	8	20	Good	RT, TK8, LS, MB, CT	5	City of Mississauga	Yes	Yes
462	Alder - European	Alnus glutinosa	12					12	2	20	Good	DE, DW	2.4	City of Mississauga	Yes	Yes
463	Maple - Manitoba	Acer negundo	24					24	6	15	Good	LN (L), CT, TT, DW, 1SD, RP	4	City of Mississauga	Yes	Yes
464	Maple - Manitoba	Acer negundo	21					21	6	10	Good	LN (L), FK@4M, DW, FS, RP	4	City of Mississauga	Yes	Yes
465	Alder - European	Alnus glutinosa	10					10	3	30	Good	DW, SL	2.5	City of Mississauga	Yes	Yes
466	Maple - Manitoba	Acer negundo	4	4				6	2	20	Good	LS, RT, TK2, CT	2.4	City of Mississauga	Yes	Yes
467	Maple - Silver	Acer saccharinum	9					9	3	15	Fair	LN (L), CT, 1SD, LD	2.5	City of Mississauga	Yes	Yes
468	Alder - European	Alnus glutinosa	12					12	2	60	Fair	DE (canker), DW, CD, SL	2.4	City of Mississauga	Yes	Yes
469	Alder - European	Alnus glutinosa	8	5				9	3	30	Fair	TK2, DE, LN (L), 1SD, RP	2.5	City of Mississauga	Yes	Yes
470	Alder - European	Alnus glutinosa	7					7	2	30	Fair	SL, SF, DE	2.4	City of Mississauga	Yes	Yes
471	Maple - Freeman	Acer x freemanii	19					19	5	10	Good	SB, FK2@2M, RP, MB	3.5	City of Mississauga	Yes	Yes
472	Alder - European	Alnus glutinosa	11					11	3	15	Good	SF, SL, DE	2.5	City of Mississauga	Yes	Yes
473	Maple - Manitoba	Acer negundo	5					5	2	10	Good	LS, CT, SL	2.4	City of Mississauga	Yes	Yes
474	Maple - Freeman	Acer x freemanii	17					17	4	10	Good	TK2, RH, FS, BR1, SL, RP	3	City of Mississauga	Yes	Yes
475	Alder - European	Alnus glutinosa	5	4	4			8	2	40	Good	TK3, RT, DW	2.4	City of Mississauga	Yes	Yes
476	Alder - European	Alnus glutinosa	9	7				11	3	15	Good	TK2, SF, SL, DE, RT	2.5	City of Mississauga	Yes	Yes
477	Alder - European	Alnus glutinosa	8					8	3	30	Fair	DW, DE, SL	2.5	City of Mississauga	Yes	Yes
478	Alder - European	Alnus glutinosa	6	6	5	5		11	5	25	Good	DE, DW, TD, RT, WNC	3.5	City of Mississauga	Yes	Yes
479	Maple - Freeman	Acer x freemanii	16					16	4	5	Good	FK@2M, FK@5M, 1SD, SL, RP	3	City of Mississauga	Yes	Yes
480	Maple - Manitoba	Acer negundo	5	4	3	3		8	4	20	Good	TK4, RT, LS, DW	3	City of Mississauga	Yes	Yes
481	Maple - Manitoba	Acer negundo	25	21				33	11	10	Good	TK2, IB, DW, ER, FK@4M, 1SD, DC, RP	6.5	City of Mississauga	Yes	Yes
482	Alder - European	Alnus glutinosa	13	7	6	3		16	5	30	Good	DE, TK4, RT, DW	3.5	City of Mississauga	Yes	Yes
483	Maple - Manitoba	Acer negundo	3	3	5			7	3	20	Good	TK3, RT, LS, CT	2.5	City of Mississauga	Yes	Yes
484	Alder - European	Alnus glutinosa	7					7	2	10	Fair	SL, 1SD, DE	2.4	City of Mississauga	Yes	Yes
485	Alder - European	Alnus glutinosa	7	7	3	4		11	5	20	Good	TK4, RT, DE, DW, SL	3.5	City of Mississauga	Yes	Yes
486	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
487	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
488	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
489	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
490	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
421	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	189.34	No
422	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	232.05	No
423	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	333.86	No
424	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
425	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	269.57	No
426	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
427	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	189.34	No
428	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	269.57	No
429	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	208.92	No
430	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
431	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	189.34	No
432	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	244.31	No
433	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	208.92	No
434	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	269.57	No
435	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	208.92	No
436	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	208.92	No
437	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	223.65	No
438	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	232.05	No
439	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	269.57	No
440	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2197.89	No
441	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	470.55	No
442	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	136.34	No
443	Walnut - Black	Juglans nigra	Retain	Outside Alternative 4 Study Area	NA	NA	589.23	No
444	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 4 Study Area	NA	NA	1981.14	No
445	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	290.32	No
446	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	337.26	No
447	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	327.87	No
448	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	505.95	No
449	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	190.87	No
450	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	627.11	No
451	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	376.13	No
452	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	239.34	No
453	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	1280.22	No
454	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	337.26	No
455	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	290.32	No
456	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	185.49	No
457	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	365.37	No
458	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	821.03	No
459	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	505.95	No
460	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	790.70	No
461	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	267.21	No
462	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	429.68	No
463	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	790.70	No
464	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	627.11	No
465	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	365.13	No
466	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	136.34	No
467	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 4 Study Area	NA	NA	327.87	No
468	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	333.00	No
469	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	261.38	No
470	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	225.00	No
471	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	1058.97	No
472	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	395.94	No
473	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	123.01	No
474	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	909.73	No
475	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	312.33	No
476	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	395.94	No
477	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	242.05	No
478	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	395.94	No
479	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	841.33	No
480	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	170.27	No
481	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1412.33	No
482	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	593.97	No
483	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	152.10	No
484	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	225.00	No
485	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	395.94	No
486	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	909.73	No
487	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	365.13	No
488	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	909.73	No
489	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	365.13	No
490	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	365.13	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
491	Alder - European	Alnus glutinosa	7	6	5	5	3	12	6	20	Good	TK7, RT, BSD, DE, DW	4	City of Mississauga	Yes	Yes
492	Maple - Freeman	Acer x freemanii	6	2				6	3	25	Fair	TK2, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
493	Alder - European	Alnus glutinosa	6	4	6			9	5	5	Good	TK3, RT, DE, DW	3.5	City of Mississauga	Yes	Yes
494	Maple - Freeman	Acer x freemanii	8					8	2	5	Fair	SL, SF, ML, RP	2.4	City of Mississauga	Yes	Yes
495	Maple - Manitoba	Acer negundo	9					9	5	10	Fair	BOB, CT, SB, ST, FK@4M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
496	Maple - Manitoba	Acer negundo	21	17				27	9	25	Good	TK2, IB, PF, WNC, PP, SC, MB, RP	5.5	City of Mississauga	Yes	Yes
497	Ash - Green	Fraxinus pennsylvanica	5	4				6	0	100	Dead	TK2, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
498	Ash - Green	Fraxinus pennsylvanica	14					14	4	50	Poor	EAB, AD, SF, CD, RM	3	City of Mississauga	Yes	Yes
499	Apple sp.	Malus sp.	12	9				15	3	25	Fair	TK2, BOB, SC, DW, MB, FS, RP	2.5	City of Mississauga	Yes	Yes
500	Maple - Manitoba	Acer negundo	3					3	2	35	Fair	BOB, LN (M), LS, CT	2.4	City of Mississauga	Yes	Yes
501	Maple - Manitoba	Acer negundo	15					15	5	20	Fair	FS, SB, LNM, UC	3.5	City of Mississauga	Yes	Yes
502	Ash - White	Fraxinus americana	14	12	12			22	5	100	Dead	PB, FS, DW, BSD	0	City of Mississauga	Yes	Yes
503	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
504	Ash - White	Fraxinus americana	14	13				19	6	100	Dead	PB, DW, VC, ER	0	City of Mississauga	Yes	Yes
505	Hawthorn sp.	Crataegus sp.	7					7	3	30	Fair	DW, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
506	Hawthorn sp.	Crataegus sp.	16	8	7	6	6	21	6	20	Fair	TK5, FS, FK@2M, RP, RT	4	City of Mississauga	Yes	Yes
507	Apple sp.	Malus sp.	22	16	16			32	5	40	Fair	TK3, LNM, 1SD, UC, ER, DW	4.8	City of Mississauga	Yes	Yes
508	Maple - Manitoba	Acer negundo	30					30	8	15	Fair	LN (H), MOB, FS, ST, RP	5	City of Mississauga	Yes	Yes
509	Ash - White	Fraxinus americana	26					26	5	100	Dead	ER, BSD, CT, DW, PB	0	City of Mississauga	Yes	Yes
510	Apple sp.	Malus sp.	14					14	5	25	Fair	BOB, LN (M), SB, CT, SC, DW, RP	3.5	City of Mississauga	Yes	Yes
511	Ash - Green	Fraxinus pennsylvanica	23					23	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
512	Hawthorn sp.	Crataegus sp.	15	11	10	7	7	23	4	25	Fair	TK5, FS, CT, DW, RP, RT	3.6	City of Mississauga	Yes	Yes
513	Hawthorn sp.	Crataegus sp.	18	7	8	13	6	25	7	30	Fair	CT, TK4, UC, MB, DW, LS	4.5	City of Mississauga	Yes	Yes
514	Ash - White	Fraxinus americana	14	8				16	6	80	Poor	CD, PB, DW, LNM, TK2, LS	4	City of Mississauga	Yes	Yes
515	Serviceberry sp.	Amelanchier sp.	11	9	5	4		16	4	10	Good	TK4, FS, 1SD, UC, LS, RP	3	City of Mississauga	Yes	Yes
516	Ash - Black	Fraxinus nigra	13					13	0	100	Dead	BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
517	Ash - Green	Fraxinus pennsylvanica	20					20	8	75	Poor	BSD, TD, PB, DW, ER	5	City of Mississauga	Yes	Yes
518	Maple - Manitoba	Acer negundo	6	5				8	3	15	Fair	TK2, BOB, SL, RT	2.5	City of Mississauga	Yes	Yes
519	Ash - Black	Fraxinus nigra	6					6	1	100	Dead	SB, DW, PB, ER	0	City of Mississauga	Yes	Yes
520	Hawthorn sp.	Crataegus sp.	13	12	9	8	6	22	5	20	Fair	TK5, FS, CT, LS, RP	3.6	City of Mississauga	Yes	Yes
521	Hawthorn sp.	Crataegus sp.	5	3				6	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
522	Cherry - Sweet	Prunus avium	6					6	3	25	Fair	LN (L), 1SD, CT, LS	2.5	City of Mississauga	Yes	Yes
523	Hawthorn sp.	Crataegus sp.	22	21	21	14	6	40	9	35	Fair	TK8, MB, FS, IB, RP, DW, ER	5.5	City of Mississauga	Yes	Yes
524	Maple - Norway	Acer platanoides	9					9	4	15	Fair	SL, FS, RT, LS, UC	3	City of Mississauga	Yes	Yes
525	Maple - Norway	Acer platanoides	14	13	12	9	7	25	6	5	Good	TK5, MOB, FS, 1SD, RP	4	City of Mississauga	Yes	Yes
526	Maple - Norway	Acer platanoides	12	9	8	7	4	19	5	15	Good	TK5, BOB, ER, FS, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
527	Hawthorn sp.	Crataegus sp.	16	7				17	5	40	Fair	TK2, DW, ER, FK2@2M, PB, RP	3.5	City of Mississauga	Yes	Yes
528	Maple - Norway	Acer platanoides	11					11	4	10	Good	TOB, 1SD, FK@3M, UC, RP	3	City of Mississauga	Yes	Yes
529	Maple - Norway	Acer platanoides	14					14	5	30	Fair	DW, ER, FS, SL,	3.5	City of Mississauga	Yes	Yes
530	Maple - Norway	Acer platanoides	11	11	9	8	6	21	7	10	Good	TK6, BOB, FS, DW, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
531	Maple - Norway	Acer platanoides	22					22	6	10	Good	LN (L), 1SD, FK@3M, SN2	4	City of Mississauga	Yes	Yes
532	Maple - Manitoba	Acer negundo	26					26	0	100	Dead	LN (H), CT, PB, DW, RM	0	City of Mississauga	Yes	Yes
533	Hawthorn sp.	Crataegus sp.	8	7				11	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
534	Hawthorn sp.	Crataegus sp.	17	13	10			24	5	15	Good	TK3, PP, ST, SC, RP	3.6	City of Mississauga	Yes	Yes
535	Hawthorn sp.	Crataegus sp.	19	17	16	16	9	35	7	10	Good	TK5, FS, ML, ST, RP	4.8	City of Mississauga	Yes	Yes
536	Hawthorn sp.	Crataegus sp.	14	13	11	10	9	26	4	35	Fair	TK6, CT, 1SD, UC, LS, RP	3.6	City of Mississauga (Park)	Yes	Yes
537	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, ML, RP	2.4	City of Mississauga	Yes	Yes
538	Maple - Manitoba	Acer negundo	33					33	11	10	Good	SB, TW, WNC, LN (L), FK@3M, DC, RP	6.5	City of Mississauga (Park)	Yes	Yes
539	Maple - Norway	Acer platanoides	5					5	2	15	Fair	SP, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
540	Hawthorn sp.	Crataegus sp.	10					10	2	40	Poor	MB, LS, CD	2.4	City of Mississauga	Yes	Yes
541	Apple sp.	Malus sp.	34	31	31	28	14	64	8	20	Fair	TK7, FS, SB, ST, SC, PF, DW, RP	8.4	City of Mississauga	Yes	Yes
542	Hawthorn sp.	Crataegus sp.	19	12				22	5	15	Good	TK2, FS, SN, 1SD, RP	3.6	City of Mississauga	Yes	Yes
543	Ash - White	Fraxinus americana	44	35				56	0	100	Dead	TK2, SB, PF, BC, DW, RM	0	City of Mississauga	Yes	Yes
544	Hawthorn sp.	Crataegus sp.	13	12	10	8		22	0	100	Dead	TK4, PF, BC, RM	0	City of Mississauga	Yes	Yes
545	Maple - Manitoba	Acer negundo	3					3	1	15	Fair	LN(M), LS, 1SD, SP	2.4	City of Mississauga	Yes	Yes
546	Apple sp.	Malus sp.	29	18				34	4	50	Poor	TK2, FS, ST, SC, 1SD, PF, CT, VC, RP	4.8	City of Mississauga	Yes	Yes
547	Maple - Manitoba	Acer negundo	27	24				36	6	10	Good	TK2, BOB, LN (L), PF, FS, RP	4.8	City of Mississauga	Yes	Yes
548	Maple - Manitoba	Acer negundo	24	23				33	8	30	Fair	TK2, LN (M), BSD, WNC, VC, 1SD, CT, UC, RP	5	City of Mississauga	Yes	Yes
549	Maple - Manitoba	Acer negundo	31	16				35	11	30	Fair	LN (H), PF, LG, FK@2M, SB, CT, VC, FS, SC, RP	6.5	City of Mississauga	Yes	Yes
550	Hawthorn sp.	Crataegus sp.	20	15	14			29	5	25	Fair	TK2, MOB, FS, CT, DW, 1SD, RP	3.6	City of Mississauga	Yes	Yes
551	Hawthorn sp.	Crataegus sp.	12	7				14	5	10	Fair	TK2, LN (L), LS, FK@2M	3.5	City of Mississauga	Yes	Yes
552	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN (L), EAB, PB, DW, SB, BOB, RM	0	City of Mississauga	Yes	Yes
553	Hawthorn sp.	Crataegus sp.	8	6	4	4		11	4	30	Fair	TK4, LN (L), BOB, ST, RT	3	City of Mississauga	Yes	Yes
554	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN(L), EAB, SB, DW, RM	0	City of Mississauga	Yes	Yes
555	Maple - Manitoba	Acer negundo	7	6	4	4		11	5	15	Fair	TK4, BOB, LS, SL, RT	3.5	City of Mississauga	Yes	Yes
556	Ash - Green	Fraxinus pennsylvanica	30					30	0	100	Dead	RPM, LG, EAB, DW, RM	0	City of Mississauga	Yes	Yes
557	Hawthorn sp.	Crataegus sp.	20	19				28	4	35	Fair	TK2, MOB, PF, DW, SL, RP	3.6	City of Mississauga	Yes	Yes
558	Hawthorn sp.	Crataegus sp.	18	8	7			21	4	20	Fair	TK3, DW, CT, RP	3.6	City of Mississauga	Yes	Yes
559	Maple - Norway	Acer platanoides	6					6	3	10	Fair	FS, SP, LS	2.5	City of Mississauga	Yes	Yes
560	Maple - Norway	Acer platanoides	5	3				6	2	10	Fair	TK2, TOB, SL, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
491	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	429.68	No
492	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	298.62	No
493	Alder - European	Alnus glutinosa	Retain	Outside Alternative 4 Study Area	NA	NA	337.26	No
494	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 4 Study Area	NA	NA	343.60	No
495	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	147.93	No
496	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	976.10	No
497	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	32.88	No
498	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	266.89	No
499	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	492.27	No
500	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	80.31	No
501	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	283.16	No
502	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	164.52	No
503	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	131.55	No
504	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	129.22	No
505	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	237.30	No
506	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	837.94	No
507	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1617.81	No
508	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	917.07	No
509	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	219.62	No
510	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	451.42	No
511	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	166.51	No
512	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	972.78	No
513	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1119.87	No
514	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	346.79	No
515	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 4 Study Area	NA	NA	790.51	No
516	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	56.89	No
517	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	460.42	No
518	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	131.96	No
519	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	26.68	No
520	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	903.82	No
521	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	217.38	No
522	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 4 Study Area	NA	NA	213.99	No
523	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2613.81	No
524	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	391.32	No
525	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1684.55	No
526	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1112.08	No
527	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	605.04	No
528	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	591.66	No
529	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	584.58	No
530	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1285.56	No
531	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1378.80	No
532	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	113.98	No
533	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	56.07	No
534	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1348.12	No
535	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2631.25	No
536	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1198.02	No
537	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	270.32	No
538	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1412.33	No
539	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	297.21	No
540	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	178.07	No
541	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	5945.27	No
542	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1166.23	No
543	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	925.63	No
544	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	145.78	No
545	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	80.31	No
546	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	1018.25	No
547	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1663.17	No
548	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	1094.56	No
549	Maple - Manitoba	Acer negundo	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1222.28	No
550	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1450.84	No
551	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	462.54	No
552	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	131.55	No
553	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	347.62	No
554	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	131.55	No
555	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	185.49	No
556	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	267.07	No
557	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1363.50	No
558	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	837.94	No
559	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	315.69	No
560	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	315.69	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
561	Hawthorn sp.	Crataegus sp.	21	16	13	11	6	32	6	20	Fair	TK5, FS, CT, 1SD, LN (L), RP, RT	4.8	City of Mississauga	Yes	Yes
562	Maple - Norway	Acer platanoides	28					28	7	5	Good	DC, SF, SN	4.5	City of Mississauga	Yes	Yes
563	Hawthorn sp.	Crataegus sp.	17	12	9			23	6	15	Fair	TK3, CT, SN, DW, RP	4	City of Mississauga	Yes	Yes
564	Apple sp.	Malus sp.	28	13				31	6	30	Fair	TK2, PF, DW, LN (M), RP	4.8	City of Mississauga	Yes	Yes
565	Maple - Norway	Acer platanoides	5					5	1	10	Fair	MOB, SP, LS	2.4	City of Mississauga	Yes	Yes
566	Hawthorn sp.	Crataegus sp.	19	17	16			30	5	25	Fair	TK3, TW, WNC, DE, FS, CT, RP	3.6	City of Mississauga	Yes	Yes
567	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
568	Maple - Norway	Acer platanoides	7					7	3	10	Fair	CT, SL, LS	2.5	City of Mississauga	Yes	Yes
569	Hawthorn sp.	Crataegus sp.	20	8				22	2	30	Poor	TK2, CT, LN (H), ST, SC	3.6	City of Mississauga	Yes	Yes
570	Maple - Manitoba	Acer negundo	9					9	2	10	Fair	ER, SL, SF	2.4	City of Mississauga	Yes	Yes
571	Hawthorn sp.	Crataegus sp.	20	19	19	18	13	40	9	35	Fair	TK7, FK@2M, TOB, DW, FS, CD, RP	5.5	City of Mississauga	Yes	Yes
572	Hawthorn sp.	Crataegus sp.	24	20	19	19	14	44	7	20	Fair	TK5, MOB, LN (L), 1SD, RP	6	City of Mississauga	Yes	Yes
573	Maple - Norway	Acer platanoides	7	3				8	4	10	Fair	TK2, MOB, SL, LS, RT	3	City of Mississauga	Yes	Yes
574	Maple - Norway	Acer platanoides	8	5				9	3	10	Fair	TK2, SL, SN, RT	2.5	City of Mississauga	Yes	Yes
575	Maple - Norway	Acer platanoides	5	5	4			8	3	10	Fair	TK3, TOB, SL, RT	2.5	City of Mississauga	Yes	Yes
576	Hawthorn sp.	Crataegus sp.	16	14				21	9	10	Good	TK2, GTF, FS, SC, RP	5.5	City of Mississauga (Park)	Yes	Yes
577	Hawthorn sp.	Crataegus sp.	16	15	10	8		25	8	15	Good	TK4, TOB, FS, RP	5	City of Mississauga (Park)	Yes	Yes
578	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
579	Hawthorn sp.	Crataegus sp.	21	13	10	10	8	30	10	35	Fair	TK, MOB, VC, FS, CD, DW, RP	6	City of Mississauga	Yes	Yes
580	Hawthorn sp.	Crataegus sp.	13	12	11	10		23	5	30	Fair	TK4, LN (H), DW, FS, RP	3.6	City of Mississauga	Yes	Yes
581	Maple - Manitoba	Acer negundo	5	5	5	5	4	11	5	10	Fair	TK6, SP, SL, RT	3.5	City of Mississauga	Yes	Yes
582	Maple - Manitoba	Acer negundo	8	6	5	4		12	5	10	Fair	TK4, LN (L), BOB, RT	3.5	City of Mississauga	Yes	Yes
583	Ash - Green	Fraxinus pennsylvanica	12					12	0	100	Dead	RPM, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
584	Maple - Norway	Acer platanoides	4					4	1	10	Good	SP, SL	2.4	City of Mississauga	Yes	Yes
585	Hawthorn sp.	Crataegus sp.	22	17				28	7	10	Fair	TK2, LN (L), FK@3M, FS, 1SD, RP	4.5	City of Mississauga	Yes	Yes
586	Ash - Green	Fraxinus pennsylvanica	3					3	1	10	Fair	SP, BOB	2.4	City of Mississauga	Yes	Yes
587	Maple - Manitoba	Acer negundo	3	3				4	2	5	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
588	Ash - Green	Fraxinus pennsylvanica	14	10				17	0	100	Dead	TK2, LN (H), RPM, EAB, DW, RM	0	City of Mississauga	Yes	Yes
589	Maple - Manitoba	Acer negundo	4					4	2	10	Fair	SL, SML, RP	2.4	City of Mississauga	Yes	Yes
590	Hawthorn sp.	Crataegus sp.	22					22	6	15	Good	FK@3M, LN (L), CT, SC, RP	4	City of Mississauga	Yes	Yes
591	Maple - Manitoba	Acer negundo	3					3	1	10	Fair	SP	2.4	City of Mississauga	Yes	Yes
592	Maple - Norway	Acer platanoides	3	3				4	2	0	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
593	Hawthorn sp.	Crataegus sp.	27	25	23	21	20	52	10	30	Fair	TK6, TT, CT, DW, SC, FS, RP	7.2	City of Mississauga	Yes	Yes
594	Hawthorn sp.	Crataegus sp.	31	28				42	10	15	Good	TK2, TOB, CV, CT, SN, DW, RP	6	City of Mississauga (Park)	Yes	Yes
595	Maple - Norway	Acer platanoides	3	3	3	3		6	4	10	Fair	TK4, SP, SL, RT	3	City of Mississauga	Yes	Yes
596	Maple - Norway	Acer platanoides	4					4	2	10	Fair	TOB, SL, SP, LS	2.4	City of Mississauga	Yes	Yes
597	Hawthorn sp.	Crataegus sp.	38	32	24	23	23	64	14	15	Fair	TK6, LN (H), PF, LG, FK@3M, CT, TT, CV, GTF, ETB, SC, SN, DW, RP	8.4	City of Mississauga	Yes	Yes
598	Maple - Norway	Acer platanoides	21	14				25	7	15	Good	TK2, ER, MOB, FK@3M, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
599	Maple - Norway	Acer platanoides	9					9	5	10	Fair	LN (L), LS, 1SD, ML, RP	3.5	City of Mississauga	Yes	Yes
600	Hawthorn sp.	Crataegus sp.	10					10	3	15	Fair	LN (M), CT, SL	2.5	City of Mississauga	Yes	Yes
601	Apple sp.	Malus sp.	28	27				39	7	25	Fair	TK2, FS, SB, ST, SC, LN (M), 1SD, PF, RP	4.8	City of Mississauga	Yes	Yes
602	Hawthorn sp.	Crataegus sp.	12	11	9			19	3	50	Poor	TK3, LN (L), DW, RP	2.5	City of Mississauga	Yes	Yes
603	Maple - Norway	Acer platanoides	4					4	2	10	Fair	CT, SP, LS	2.4	City of Mississauga	Yes	Yes
604	Hawthorn sp.	Crataegus sp.	11	6				13	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
605	Hawthorn sp.	Crataegus sp.	17	16	9			25	5	15	Good	TK3, BOB, TT, DW, RP	3.6	City of Mississauga	Yes	Yes
606	Hawthorn sp.	Crataegus sp.	15	9				17	4	10	Fair	TK2, VC, LN (M), SC, RP	3	City of Mississauga	Yes	Yes
607	Hawthorn sp.	Crataegus sp.	10					10	1	70	Poor	CT, BOB, DW, RM	2.4	City of Mississauga	Yes	Yes
608	Hawthorn sp.	Crataegus sp.	22	16	15			31	11	15	Good	TK3, FS, RH, FK@2M, LN (L), DW,,RP	6.5	City of Mississauga	Yes	Yes
609	Apple sp.	Malus sp.	10					10	0	100	Dead	BOB, DW, RM	0	City of Mississauga	Yes	Yes
610	Apple sp.	Malus sp.	17	13	10	8	6	26	0	100	Dead	TK8, DW, BOB, RM	0	City of Mississauga	Yes	Yes
611	Maple - Norway	Acer platanoides	5					5	2	15	Fair	BOB, CT, ML, LS	2.4	City of Mississauga	Yes	Yes
612	Maple - Norway	Acer platanoides	3					3	2	10	Fair	SP, BOB, LS	2.4	City of Mississauga	Yes	Yes
613	Maple - Norway	Acer platanoides	3	2				4	1	0	Fair	TK2, CT, LS, RP	2.4	City of Mississauga	Yes	Yes
614	Ash - Green	Fraxinus pennsylvanica	14					14	0	100	Dead	RPM, LN (M), EAB, DW, RM	0	City of Mississauga	Yes	Yes
615	Ash - Green	Fraxinus pennsylvanica	3					3	1	15	Fair	BOB, SP, SL	2.4	City of Mississauga	Yes	Yes
616	Hawthorn sp.	Crataegus sp.	21	20	20	9	8	37	9	20	Fair	TK7, BOB, GTF, ER, SN, RP	5.5	City of Mississauga	Yes	Yes
617	Hawthorn sp.	Crataegus sp.	16	14	14	12	9	30	5	45	Poor	TK5, BOB, GTF, PB, DW, PF, RP	3.6	City of Mississauga	Yes	Yes
618	Apple sp.	Malus sp.	51					51	6	20	Fair	TOB, GTF, PP, PC, SC, RP	7.2	City of Mississauga	Yes	Yes
619	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
620	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
621	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
622	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
623	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
624	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
625	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
626	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
627	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
628	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
629	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
630	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
561	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1731.24	No
562	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	2029.33	No
563	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	972.78	No
564	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1529.06	No
565	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	297.21	No
566	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1541.24	No
567	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
568	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	337.54	No
569	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	510.22	No
570	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	147.93	No
571	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2613.81	No
572	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	3128.65	No
573	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	362.75	No
574	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	391.32	No
575	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	362.75	No
576	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1081.21	No
577	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1445.00	No
578	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	270.32	No
579	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1541.24	No
580	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	972.78	No
581	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	185.49	No
582	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	207.09	No
583	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	62.16	No
584	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	363.98	No
585	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1363.50	No
586	Ash - Green	Fraxinus pennsylvanica	Retain	Outside Alternative 4 Study Area	NA	NA	158.51	No
587	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
588	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	101.46	No
589	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	86.88	No
590	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1166.23	No
591	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 4 Study Area	NA	NA	80.31	No
592	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	282.08	No
593	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	4305.41	No
594	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	3696.90	No
595	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	315.69	No
596	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	282.08	No
597	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	6438.30	No
598	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	1684.55	No
599	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	391.32	No
600	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	315.44	No
601	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2317.92	No
602	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	403.83	No
603	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	282.08	No
604	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	67.93	No
605	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	1445.00	No
606	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	605.04	No
607	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	178.07	No
608	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2109.30	No
609	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	51.00	No
610	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	181.87	No
611	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	297.21	No
612	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	270.32	No
613	Maple - Norway	Acer platanoides	Retain	Outside Alternative 4 Study Area	NA	NA	282.08	No
614	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	76.25	No
615	Ash - Green	Fraxinus pennsylvanica	Retain	Outside Alternative 4 Study Area	NA	NA	158.51	No
616	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	2259.86	No
617	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 4 Study Area	NA	NA	870.05	No
618	Apple sp.	Malus sp.	Retain	Outside Alternative 4 Study Area	NA	NA	3839.29	No
619	Cherry - Sweet	Prunus avium	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	5694.63	No
620	Cherry - Sweet	Prunus avium	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	5694.63	No
621	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
622	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
623	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
624	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
625	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
626	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
627	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
628	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	929.57	No
629	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
630	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
631	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
632	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
633	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
634	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
635	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
636	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
637	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
638	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
639	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
640	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
641	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
642	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
643	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
644	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
645	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
646	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
647	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
648	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
649	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 4	Location Category - Alternative 4	Mississauga Compensation - Alternative 4	TRCA Compensation - Alternative 4	Tree Valuation (Trunk Formula) - $	Alternative 4 - Tree Value Needed (Y/N)
631	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
632	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
633	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
634	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
635	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
636	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
637	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
638	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
639	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
640	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
641	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
642	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
643	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
644	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
645	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
646	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
647	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 4 Study Area	NA	NA	173.33	No
648	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
649	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No

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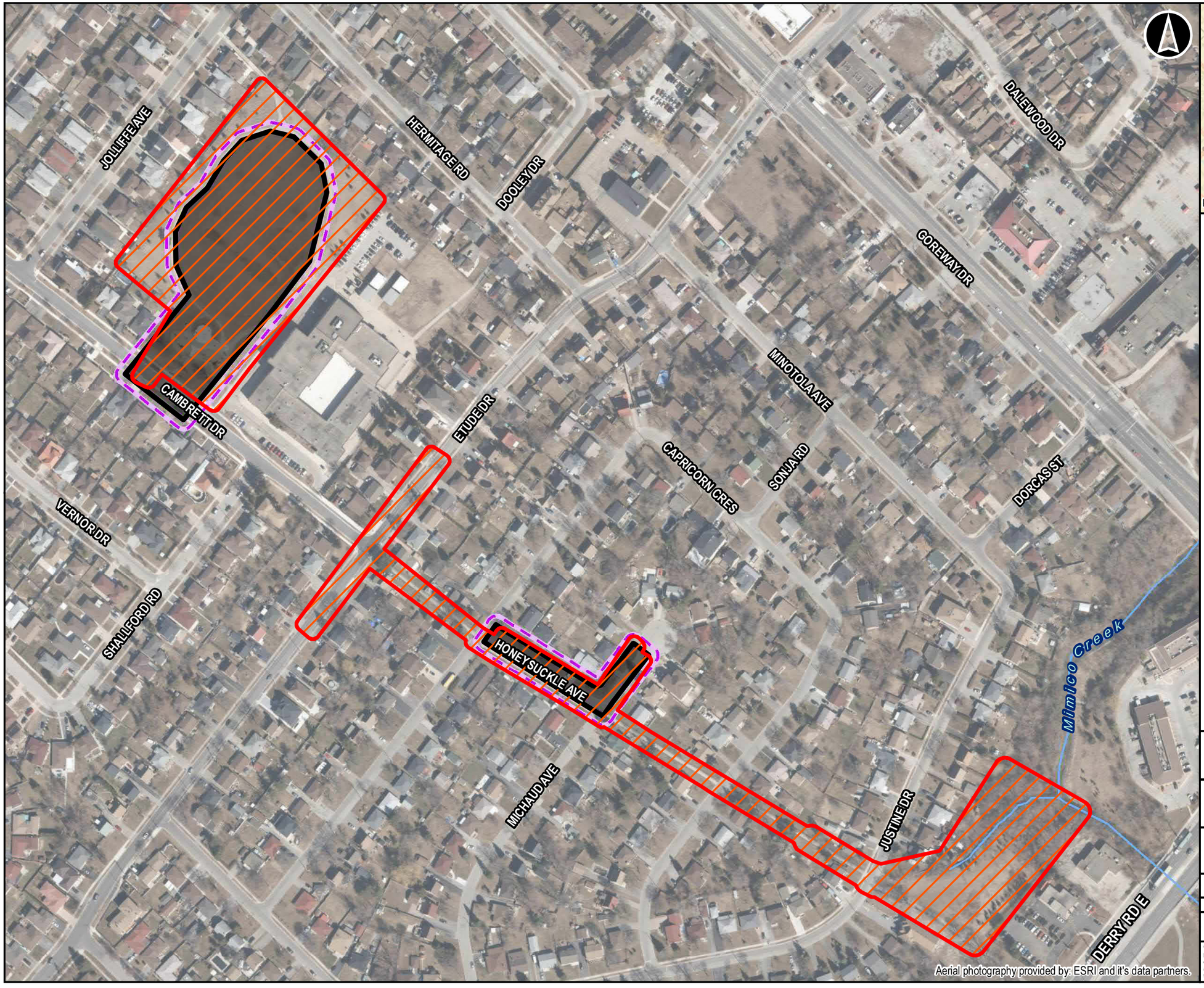
Appendix E2-E6

Alternative 4 Tree Inventory and Preservation Plan



Legend

- Preliminary Tree Inventory Study Area
- Alternative 4 Impact Area
- Alternative 4 Study Area
- Watercourse

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 4

Tree Protection and Preservation Plan

0 20 40 80 120 160
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:2,500 * when printed 11"x17"	Data Sources: MECP, MMAH
P#:60620089	Rev:00	

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Appendix E2

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Map location: E:\PR\60620\26\26_Malton Flood\Design\01_Reports\ArboristReport_2021\01\MXD_60620089_TreeProtectionPlan_HighLevel_Alt4_R00.mxd
Date Saved: 1/15/2021 3:18:10 AM User Name: cnilles

Legend

- Alternative 4 Study Area
- Alternative 4 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

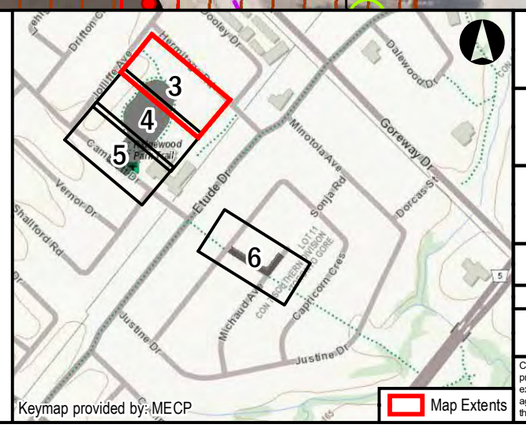
Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 4

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix E3

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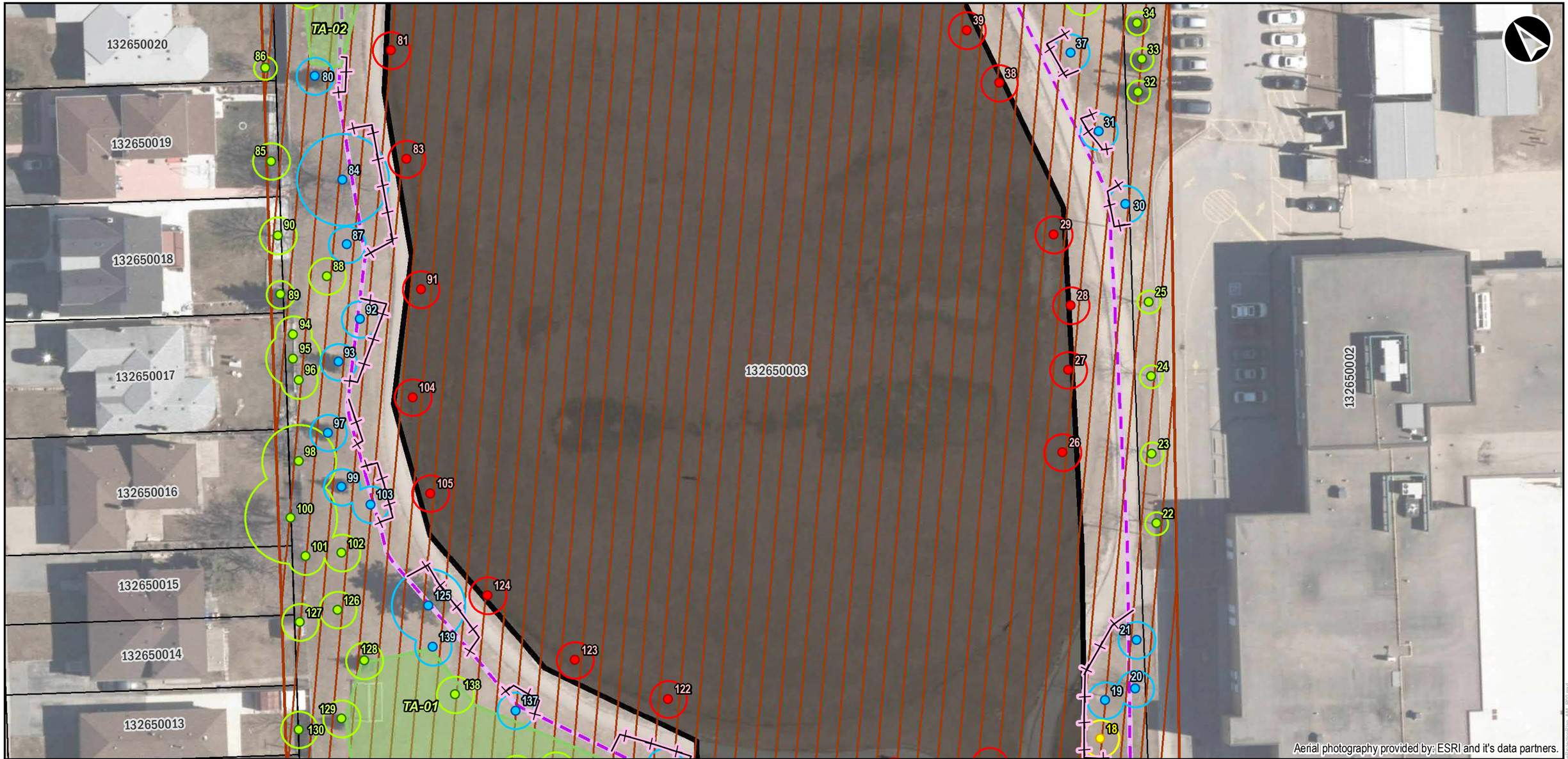


Legend

- Alternative 4 Study Area
- Alternative 4 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

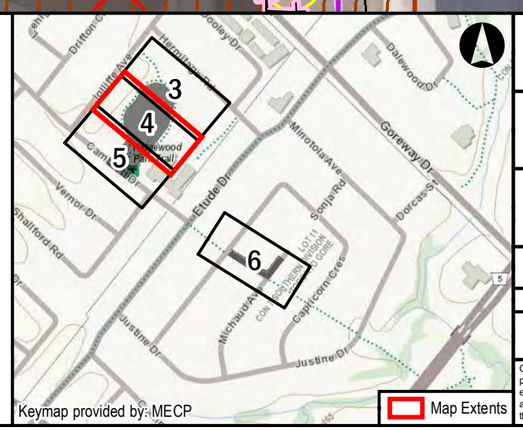
Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 4

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix E4

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File path: ...\60620089\Malton Flood Design\03_Reports\Report_Appendices\Report_Appendix_E4_TPPP.mxd
Date Saved: 1/15/2021 2:53:19 AM User Name: onavs

Aerial photography provided by: ESRI and it's data partners.

Legend

- Alternative 4 Study Area
- Alternative 4 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

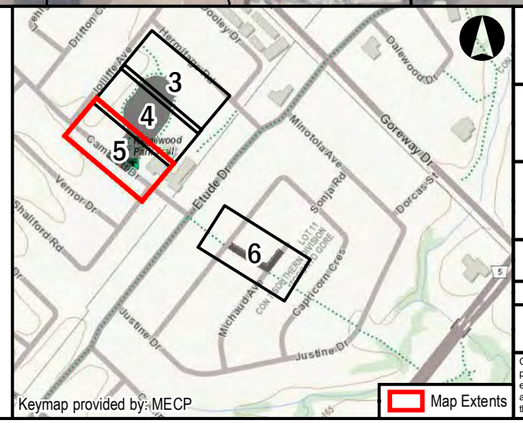
Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Keymap provided by: MECP

Map Extents

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 4

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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Appendix E5

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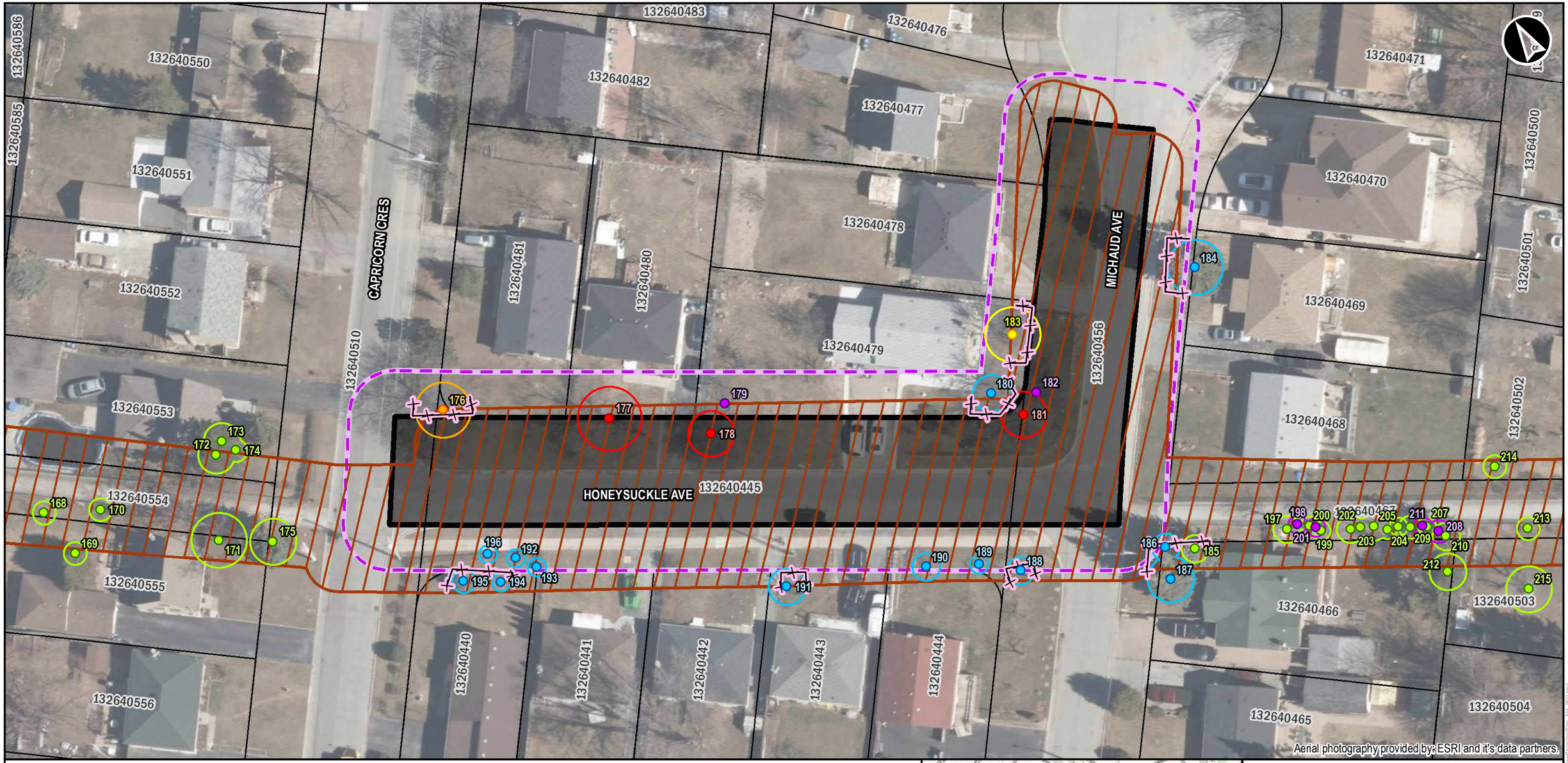
File Location: E:\Projects\60620089 Malton Flood Design\01_Projects\ArcGIS\Report_Q01\TEMPO_Etude\Etude_Justine_Alt4_R01.mxd
Date Saved: 1/15/2021 2:53:18 AM User Name: crivera



Legend

- Alternative 4 Study Area
- Alternative 4 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

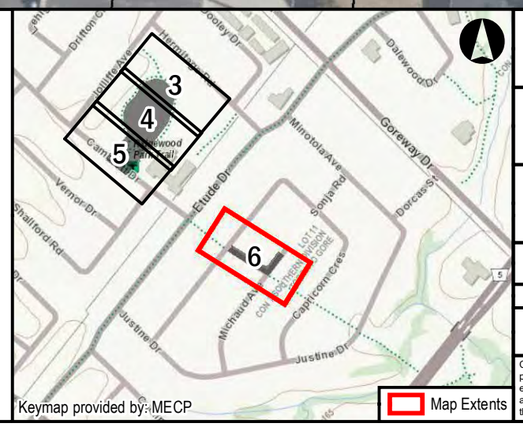
Recommended Action - Alternative 4

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 4

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix E6

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Map Location: E:\Projects\60620089 Malton Flood Design\01_Reports\Arcmap\Report_Figs\Appendix E\Etude\Etude_TreeProtectionPlan_Alt4_R00.mxd
Date Saved: 1/15/2021 2:53:18 AM User Name: oraws

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Appendix F1

Alternative 5 Tree Management Table

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
1	Honey-Locust	Gleditsia triacanthos	31					31	9	10	Good	ST, DW, FS, FC, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
2	Maple - Norway	Acer platanoides	13					13	4	0	Good	LT, DC, SF, RP	2.4	City of Mississauga (Park)	No	Yes
3	Maple - Norway	Acer platanoides	16					16	4	10	Good	LT, NST, ER, BSD, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
4	Maple - Norway	Acer platanoides	18					18	4	5	Good	ER, GR, PP, WC, DW, RP	2.4	City of Mississauga (Park)	No	Yes
5	Honey-Locust	Gleditsia triacanthos	17					17	5	5	Good	LT, ER, FS, RP	2.4	City of Mississauga (Park)	No	Yes
6	Maple - Silver	Acer saccharinum	25					25	9	0	Good	PTH, TW, WC, PF, FK@2M, RP	3.6	City of Mississauga (Park)	No	Yes
7	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	FK@2M, MB, FS, UW, RP	1.5	City of Mississauga (Road ROW)	No	No
8	Honey-Locust	Gleditsia triacanthos	15					15	7	5	Good	MB, PF, WNC, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
9	Maple - Silver	Acer saccharinum	62					62	11	15	Good	FK@2M, PP, WNC, MB, PB, ST, RP	8.4	City of Mississauga (Park)	No	Yes
10	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	MB, DW, FS, RP	2.4	City of Mississauga (Park)	No	Yes
11	Apple sp.	Malus sp.	25					25	6	20	Fair	LN (M), BSD, TW, WNC, ST, SC, 1SD, UC, PP, RP	3.6	City of Mississauga (Park)	No	Yes
12	Maple - Norway	Acer platanoides	10					10	2	15	Good	ER, DC, RP	2.4	City of Mississauga (Park)	No	Yes
13	Maple - Norway	Acer platanoides	10					10	3	20	Fair	BSD, MB, RP	2.4	City of Mississauga (Park)	No	Yes
14	Maple - Norway	Acer platanoides	14					14	4	10	Good	PTL, LN (L), TW, PF, WNC, ER, RP	2.4	City of Mississauga (Park)	No	Yes
15	Oak - Red	Quercus rubra	13					13	4	0	Good	ER, DC, SF, PF, RP	2.4	City of Mississauga (Park)	No	Yes
16	Serviceberry sp.	Amelanchier sp.	4	3	2	2	2	6	1	10	Fair	TK7, RP	2.4	City of Mississauga (Park)	No	Yes
17	Zelkova - Japanese	Zelkova serrata	4					4	1	10	Fair	FS, SL, ML, RP	2.4	City of Mississauga (Park)	No	Yes
18	Serviceberry sp.	Amelanchier sp.	2					2	1	20	Fair	PTL, RH	2.4	City of Mississauga (Park)	No	Yes
19	Oak - English	Quercus robur	12					12	4	0	Good	BSD, WNC, ER, PF, RH, RP, DC, SF	2.4	City of Mississauga (Park)	No	Yes
20	Maple - Norway	Acer platanoides	17					17	5	5	Good	ER, GR, NST, DC	2.4	City of Mississauga (Park)	No	Yes
21	Maple - Norway	Acer platanoides	15					15	4	10	Good	ER, GR, DW, RP	2.4	City of Mississauga (Park)	No	Yes
22	Honey-Locust	Gleditsia triacanthos	18					18	6	5	Good	PP, WC, FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
23	Honey-Locust	Gleditsia triacanthos	17					17	7	5	Good	ER, ETB, PP, WC, FS, DW, RP	1.5	Peel District School Board	No	No
24	Honey-Locust	Gleditsia triacanthos	17					17	6	10	Good	ETB, SB, MB, FS, DW, RP	1.5	Peel District School Board	No	No
25	Honey-Locust	Gleditsia triacanthos	20					20	7	10	Good	ER, MB, TW, WNC, PP, FS, RP	1.5	Peel District School Board	No	No
26	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, SF, RP	2.4	City of Mississauga (Park)	No	Yes
27	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
28	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	ML, RP	2.4	City of Mississauga (Park)	No	Yes
29	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
30	Yellow-Wood	Cladrastis kentukea	5					5	1	0	Fair	LT, PTL, PP, SL	2.4	City of Mississauga (Park)	No	Yes
31	Yellow-Wood	Cladrastis kentukea	6					6	1	10	Fair	LT, SB, RH, MB, FS, TW, WNC, RP	2.4	City of Mississauga (Park)	No	Yes
32	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, VC, DC, SF	1.5	Peel District School Board	No	No
33	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
34	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, NST, DC, SF	1.5	Peel District School Board	No	No
35	Honey-Locust	Gleditsia triacanthos	18					18	7	10	Good	FK@3M, DW, FS, RP	1.5	Peel District School Board	No	No
36	Yellow-Wood	Cladrastis kentukea	3	2	2	1		4	1	0	Fair	PTL, ML, FS, RP	2.4	City of Mississauga (Park)	No	Yes
37	Yellow-Wood	Cladrastis kentukea	4	3	2	2		6	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga (Park)	No	Yes
38	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
39	Gingko	Gingko biloba	3					3	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
40	Gingko	Gingko biloba	3					3	1	5	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
41	Yellow-Wood	Cladrastis kentukea	3					3	2	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes
42	Yellow-Wood	Cladrastis kentukea	6					6	1	5	Fair	ML, FS,,RP	2.4	City of Mississauga (Park)	No	Yes
43	Honey-Locust	Gleditsia triacanthos	11					11	5	10	Good	LT, MB, DC	1.5	Peel District School Board	No	No
44	Spruce - Colorado	Picea pungens	12					12	3	0	Good	LT, DC, SF	1.5	Peel District School Board	No	No
45	Spruce - Colorado	Picea pungens	10					10	2	30	Fair	VC, LT, SL, CD	1.5	Peel District School Board	No	No
46	Honey-Locust	Gleditsia triacanthos	19					19	7	5	Good	ER, ST, DW, FS, RP	1.5	Peel District School Board	No	No
47	Maple - Norway	Acer platanoides	5					5	2	10	Fair	1SD, LS, GTF	1.2	Peel District School Board	No	No
48	Elm - Siberian	Ulmus pumila	20	7				21	7	15	Good	TK2, GTF, FS, DW, SF, RP	1.8	Peel District School Board	No	No
49	Maple - Manitoba	Acer negundo	12	9	6			16	5	25	Fair	TK3, GTF, LN (L), FS, CT, 1SD, UC, PP, RP	1.5	Peel District School Board	No	No
50	Maple - Manitoba	Acer negundo	17	10	10			22	9	15	Good	TK3, GTF, RH, CT, RP	1.8	Peel District School Board	No	No
51	Sweetgum	Liquidambar styraciflua	6					6	1	40	Poor	SL, PP, RH, SB	2.4	City of Mississauga (Park)	No	Yes
52	Sweetgum	Liquidambar styraciflua	5					5	1	30	Fair	RH, SL	2.4	City of Mississauga (Park)	No	Yes
53	Sweetgum	Liquidambar styraciflua	4					4	1	25	Fair	LT, SL, RH	2.4	City of Mississauga (Park)	No	Yes
54	Yellow-Wood	Cladrastis kentukea	4					4	1	5	Fair	LT, CT, MB, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
55	Sweetgum	Liquidambar styraciflua	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
56	Spruce - Colorado	Picea pungens	11					11	3	5	Good	LT, DC, ML, RP	2.4	City of Mississauga (Park)	No	Yes
57	Sweetgum	Liquidambar styraciflua	4					4	0	100	Dead	SB, DW, RM	0	City of Mississauga (Park)	No	Yes
58	Spruce - Colorado	Picea pungens	9					9	2	5	Good	LT, SF, SL	2.4	City of Mississauga (Park)	No	Yes
59	Spruce - Colorado	Picea pungens	8					8	2	15	Fair	PTL, GC, SF, RF	2.4	City of Mississauga (Park)	No	Yes
60	Sweetgum	Liquidambar styraciflua	5					5	1	15	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
61	Sweetgum	Liquidambar styraciflua	5					5	1	35	Fair	LT, PTL, 1SD, RP	2.4	City of Mississauga (Park)	No	Yes
62	Spruce - Colorado	Picea pungens	8					8	2	25	Fair	GC, 1SD, PL, SL, DW	2.4	City of Mississauga (Park)	No	Yes
63	Maple - Manitoba	Acer negundo	27					27	10	20	Fair	GTF, DE, PP, 1SD, UC, RP	3.6	City of Mississauga (Park)	No	Yes
64	Apple sp.	Malus sp.	13					13	5	20	Fair	LN (M), SB, ST, SC, 1SD, UC	2.4	City of Mississauga (Park)	No	Yes
65	Honey-Locust	Gleditsia triacanthos	51					51	13	15	Good	LT, BSD, WNC, FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
66	Oak - Red	Quercus rubra	8					8	3	10	Fair	TW, WNC, DC	2.4	City of Mississauga (Park)	No	Yes
67	Oak - Red	Quercus rubra	7					7	3	10	Fair	ML, LT, RP	2.4	City of Mississauga (Park)	No	Yes
68	Spruce - Colorado	Picea pungens	9					9	3	0	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
69	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	4	3				5	1	10	Fair	LT, DC	2.4	City of Mississauga (Park)	No	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
1	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 5 Impact Area	3	NA	2354.52	Yes
2	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	1	NA	695.75	Yes
3	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	NA	884.40	Yes
4	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	NA	1031.85	Yes
5	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 5 Impact Area	2	NA	940.20	Yes
6	Maple - Silver	Acer saccharinum	Remove	Alternative 5 Impact Area	2	NA	1463.90	Yes
7	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 5 Impact Area	2	NA	1173.81	Yes
8	Honey-Locust	Gleditsia triacanthos	Protect	Alternative 5 Study Area	NA	NA	805.50	No
9	Maple - Silver	Acer saccharinum	Remove	Alternative 5 Impact Area	5	NA	7622.86	Yes
10	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 5 Impact Area	1	NA	805.50	Yes
11	Apple sp.	Malus sp.	Protect	Outside Alternative 5 Study Area	NA	NA	1055.75	No
12	Maple - Norway	Acer platanoides	Protect	Outside Alternative 5 Study Area	NA	NA	546.13	No
13	Maple - Norway	Acer platanoides	Protect	Alternative 5 Study Area	NA	NA	423.25	No
14	Maple - Norway	Acer platanoides	Protect	Outside Alternative 5 Study Area	NA	NA	754.29	No
15	Oak - Red	Quercus rubra	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	843.92	No
16	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	226.61	No
17	Zelkova - Japanese	Zelkova serrata	Remove	Alternative 5 Impact Area	NA	NA	278.53	Yes
18	Serviceberry sp.	Amelanchier sp.	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	170.47	No
19	Oak - English	Quercus robur	Protect	Alternative 5 Study Area	NA	NA	762.24	No
20	Maple - Norway	Acer platanoides	Protect	Outside Alternative 5 Study Area	NA	NA	955.96	No
21	Maple - Norway	Acer platanoides	Protect	Outside Alternative 5 Study Area	NA	NA	817.18	No
22	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	1013.86	No
23	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	940.20	No
24	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	940.20	No
25	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	1173.81	No
26	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Impact Area	NA	NA	247.92	Yes
27	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Impact Area	NA	NA	247.92	Yes
28	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Study Area	NA	NA	247.92	Yes
29	Gingko	Gingko biloba	Remove	Alternative 5 Impact Area	NA	NA	264.68	Yes
30	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 5 Study Area	NA	NA	241.00	No
31	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 5 Study Area	NA	NA	259.21	No
32	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
33	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
34	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
35	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	1013.86	No
36	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 5 Study Area	NA	NA	226.09	No
37	Yellow-Wood	Cladrastis kentukea	Protect	Outside Alternative 5 Study Area	NA	NA	259.21	No
38	Gingko	Gingko biloba	Remove	Alternative 5 Impact Area	NA	NA	264.68	Yes
39	Gingko	Gingko biloba	Remove	Alternative 5 Impact Area	NA	NA	264.68	Yes
40	Gingko	Gingko biloba	Remove	Alternative 5 Impact Area	NA	NA	264.68	Yes
41	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 5 Study Area	NA	NA	214.50	No
42	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 5 Study Area	NA	NA	259.21	No
43	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	586.62	No
44	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
45	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
46	Honey-Locust	Gleditsia triacanthos	Retain	Outside Alternative 5 Study Area	NA	NA	1091.73	No
47	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	297.21	No
48	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 5 Study Area	NA	NA	716.62	No
49	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	312.27	No
50	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	679.22	No
51	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	162.16	No
52	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 5 Study Area	NA	NA	270.95	No
53	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 5 Study Area	NA	NA	257.60	No
54	Yellow-Wood	Cladrastis kentukea	Retain	Outside Alternative 5 Study Area	NA	NA	226.09	No
55	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 5 Study Area	NA	NA	270.95	No
56	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
57	Sweetgum	Liquidambar styraciflua	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	41.55	No
58	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
59	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
60	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 5 Study Area	NA	NA	270.95	No
61	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 5 Study Area	NA	NA	270.95	No
62	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	0.00	No
63	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	756.48	No
64	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	413.39	No
65	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 5 Study Area	NA	NA	5806.14	No
66	Oak - Red	Quercus rubra	Protect	Outside Alternative 5 Study Area	NA	NA	443.85	No
67	Oak - Red	Quercus rubra	Retain	Outside Alternative 5 Study Area	NA	NA	413.82	No
68	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	442.87	No
69	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	327.80	Yes
70	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	327.80	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
71	Oak - Red	Quercus rubra	3					3	1	20	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
72	Oak - Red	Quercus rubra	4					4	1	5	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
73	Oak - Red	Quercus rubra	3					3	1	25	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
74	Spruce - Colorado	Picea pungens	5					5	2	45	Poor	LT, CD, DW, RM	2.4	City of Mississauga (Park)	No	Yes
75	Maple - Freeman	Acer x freemanii	3	3	2			5	3	25	Poor	TK3, PP, GTF, RM	2.4	City of Mississauga (Park)	No	Yes
76	Spruce - Colorado	Picea pungens	5					5	2	15	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
77	Maple - Freeman	Acer x freemanii	43					43	12	10	Good	PP, TW, WNC, FK@5M, DW, SB, RP	6	City of Mississauga (Park)	No	Yes
78	Spruce - White	Picea glauca	5					5	3	25	Fair	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
79	Spruce - White	Picea glauca	9					9	4	15	Fair	LT, ML, PL, RP	2.4	City of Mississauga (Park)	No	Yes
80	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, DC, SF	2.4	City of Mississauga (Park)	No	Yes
81	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	10	Fair	FK@2M, RP, LT	2.4	City of Mississauga (Park)	No	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, ML	2.4	City of Mississauga (Park)	No	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	5	2				5	2	10	Fair	TK2, LT, RP	2.4	City of Mississauga (Park)	No	Yes
84	Honey-Locust	Gleditsia triacanthos	44					44	13	10	Good	FK@2M, CT, DW, FS, RP	6	City of Mississauga (Park)	No	Yes
85	Cherry - Sweet	Prunus avium	24	23	14	11		38	6	25	Fair	TK4, PP, WNC, FS, SC, RP	2.4	Private	No	No
86	Apple sp.	Malus sp.	12					12	4	10	Good	PP, LN (L), CT, SC, DC, RP	1.5	Private	No	No
87	Oak - Swamp White	Quercus bicolor	5					5	1	10	Fair	LT, SL, SG	2.4	City of Mississauga (Park)	No	Yes
88	Oak - Swamp White	Quercus bicolor	6					6	1	15	Fair	LT, SB, SF	2.4	City of Mississauga (Park)	No	Yes
89	Spruce - Colorado	Picea pungens	28					28	5	10	Good	LT, PP, DC, SF	1.8	Private	No	No
90	Horsechestnut - European	Aesculus hippocastanum	32					32	9	5	Good	LT, MB, DC, SF	2.4	Private	No	No
91	Kentucky Coffeetree	Gymnocladus dioicus	5					5	1	15	Fair	LT, SL	2.4	City of Mississauga (Park)	No	Yes
92	Oak - Swamp White	Quercus bicolor	4					4	1	10	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
93	Spruce - Colorado	Picea pungens	12					12	3	15	Good	LT, 1SD, NST	2.4	City of Mississauga (Park)	No	Yes
94	Maple - Norway	Acer platanoides	7					7	1	0	Fair	GTF, BR2, DW, SL	2.4	City of Mississauga (Park)	No	Yes
95	Maple - Manitoba	Acer negundo	12	12	11	9		22	6	10	Good	TK4, FS, GTF, FS, RP	3.6	City of Mississauga (Park)	No	Yes
96	Maple - Norway	Acer platanoides	7	5				9	1	15	Fair	TK2, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
97	Spruce - Colorado	Picea pungens	11					11	3	10	Good	LT, ER, SL, SF	2.4	City of Mississauga (Park)	No	Yes
98	Mulberry - White	Morus alba	19	15	14	13	8	32	7	15	Fair	TK5, GTF, PP, WNC, TW, FS, RP	4.8	City of Mississauga (Park)	No	Yes
99	Spruce - Colorado	Picea pungens	10					10	2	0	Good	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
100	Apple sp.	Malus sp.	27	24	19	17		44	9	25	Fair	TK4, PP, ST, SC, FS, SN, RH, RP	6	City of Mississauga (Park)	No	Yes
101	Apple sp.	Malus sp.	4	3	3	3		7	2	10	Fair	TK4, FS, GTF, RP	2.4	City of Mississauga (Park)	No	Yes
102	Sweetgum	Liquidambar styraciflua	4					4	1	30	Fair	LT, PP, SL	2.4	City of Mississauga (Park)	No	Yes
103	Sweetgum	Liquidambar styraciflua	6					6	1	15	Fair	LT, SL, PP	2.4	City of Mississauga (Park)	No	Yes
104	Kentucky Coffeetree	Gymnocladus dioicus	5					5	2	10	Good	LT, ML	2.4	City of Mississauga (Park)	No	Yes
105	Linden - Little-Leaf	Tilia cordata	3					3	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
106	Honey-Locust	Gleditsia triacanthos	15					15	5	5	Good	DC, SF, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
107	Honey-Locust	Gleditsia triacanthos	59					59	13	10	Good	FK@3M, FS, DW, RP	7.2	City of Mississauga (Park)	No	Yes
108	Spruce - Colorado	Picea pungens	9					9	3	5	Good	LT, ER, SF	2.4	City of Mississauga (Park)	No	Yes
109	Spruce - White	Picea glauca	9					9	3	0	Good	ER, LT, SF	2.4	City of Mississauga (Park)	No	Yes
110	Mulberry - White	Morus alba	7	4				8	3	25	Fair	TK2, GTF, LN (L), ML, RP	2.4	City of Mississauga (Park)	No	Yes
111	Spruce - Colorado	Picea pungens	10					10	3	0	Good	LT, SF	2.4	City of Mississauga (Park)	No	Yes
112	Oak - Red	Quercus rubra	7					7	2	15	Fair	LT, ER, FK@3M, ML, RP	2.4	City of Mississauga (Park)	No	Yes
113	Oak - Red	Quercus rubra	6					6	2	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
114	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	PP, TK4, RP	2.4	City of Mississauga (Park)	No	Yes
115	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	15	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
116	Oak - Red	Quercus rubra	8					8	2	0	Fair	ER, LT, PL, DC, 1SD	2.4	City of Mississauga (Park)	No	Yes
117	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, DW, RP	2.4	City of Mississauga (Park)	No	Yes
118	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	15	Fair	TK3, SB, RP	2.4	City of Mississauga (Park)	No	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	3	3	3	3		6	1	5	Fair	LT, TW, WNC, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	10	Fair	BSD, LN (L), WNC, LT, SF	2.4	City of Mississauga (Park)	No	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	6					6	1	15	Fair	LT, SF	2.4	City of Mississauga (Park)	No	Yes
122	Linden - Little-Leaf	Tilia cordata	3					3	1	15	Fair	LT, BR1, ML, RP	2.4	City of Mississauga (Park)	No	Yes
123	Linden - Little-Leaf	Tilia cordata	3					3	1	0	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
124	Linden - Little-Leaf	Tilia cordata	4					4	1	5	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
125	Pine - Austrian	Pinus nigra	37					37	7	15	Good	TW, WNC, CT, AD (sapsucker), LN (L), FS, RP	4.8	City of Mississauga (Park)	No	Yes
126	Sweetgum	Liquidambar styraciflua	4					4	4	5	Fair	LT, SL, SF	2.4	City of Mississauga (Park)	No	Yes
127	Cherry - Sweet	Prunus avium	5	4				6	2	10	Fair	TK2, 1SD, FS, RP	2.4	City of Mississauga (Park)	No	Yes
128	Spruce - Colorado	Picea pungens	7					7	2	10	Fair	LT, FS, SF, RP	2.4	City of Mississauga (Park)	No	Yes
129	Spruce - Colorado	Picea pungens	6					6	2	0	Fair	LT, PL, RP	2.4	City of Mississauga (Park)	No	Yes
130	Pear sp.	Pyrus sp.	12	10				16	5	25	Fair	TK2, 1SD, UC, DW, LN (L), RP	2.4	City of Mississauga (Park)	No	Yes
131	Maple - Manitoba	Acer negundo	10	5	5	4	4	13	5	30	Fair	TK5, ST, SC, FS, PP, RP	2.4	City of Mississauga (Park)	No	Yes
132	Linden - Little-Leaf	Tilia cordata	4	4				6	1	20	Fair	TK2, GTF, LN (L), PP, SC, 1SD, LS	2.4	City of Mississauga (Park)	No	Yes
133	Spruce - White	Picea glauca	7					7	3	25	Fair	LT, CD, CN, SF	2.4	City of Mississauga (Park)	No	Yes
134	Spruce - White	Picea glauca	9					9	2	20	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
135	Spruce - White	Picea glauca	6					6	2	30	Fair	LT, CD, SL	2.4	City of Mississauga (Park)	No	Yes
136	Cottonwood - Eastern	Populus deltoides	24	18				30	7	20	Fair	TK2, DW, CD, PB, RP	3.6	City of Mississauga (Park)	No	Yes
137	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
138	Catalpa - Northern	Catalpa speciosa	4					4	1	10	Fair	LT, ML, RP	2.4	City of Mississauga (Park)	No	Yes
139	Catalpa - Northern	Catalpa speciosa	5					5	1	5	Fair	LT, ML, PP, RP	2.4	City of Mississauga (Park)	No	Yes
140	Oak - English	Quercus robur	55					55	6	10	Good	DC, SL	3.6	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
71	Oak - Red	Quercus rubra	Protect	Alternative 5 Study Area	NA	NA	333.75	No
72	Oak - Red	Quercus rubra	Retain	Outside Alternative 5 Study Area	NA	NA	347.76	No
73	Oak - Red	Quercus rubra	Retain	Outside Alternative 5 Study Area	NA	NA	333.75	No
74	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	190.63	No
75	Maple - Freeman	Acer x freemanii	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	158.60	No
76	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	337.69	No
77	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	4143.23	No
78	Spruce - White	Picea glauca	Protect	Outside Alternative 5 Study Area	NA	NA	320.55	No
79	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	424.35	No
80	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 5 Study Area	NA	NA	617.49	No
81	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	327.80	Yes
82	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	327.80	Yes
83	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	327.80	Yes
84	Honey-Locust	Gleditsia triacanthos	Protect	Outside Alternative 5 Study Area	NA	NA	4406.55	No
85	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 5 Study Area	NA	NA	2267.01	No
86	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	487.96	No
87	Oak - Swamp White	Quercus bicolor	Protect	Outside Alternative 5 Study Area	NA	NA	327.80	No
88	Oak - Swamp White	Quercus bicolor	Retain	Outside Alternative 5 Study Area	NA	NA	348.19	No
89	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	2275.19	No
90	Horsechestnut - European	Aesculus hippocastanum	Retain	Outside Alternative 5 Study Area	NA	NA	2395.77	No
91	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	327.80	Yes
92	Oak - Swamp White	Quercus bicolor	Protect	Alternative 5 Study Area	NA	NA	311.12	No
93	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 5 Study Area	NA	NA	724.13	No
94	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	337.54	No
95	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	679.22	No
96	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	391.32	No
97	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 5 Study Area	NA	NA	668.38	No
98	Mulberry - White	Morus alba	Retain	Outside Alternative 5 Study Area	NA	NA	1818.03	No
99	Spruce - Colorado	Picea pungens	Protect	Outside Alternative 5 Study Area	NA	NA	617.49	No
100	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2902.52	No
101	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	244.35	No
102	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 5 Study Area	NA	NA	257.60	No
103	Sweetgum	Liquidambar styraciflua	Protect	Outside Alternative 5 Study Area	NA	NA	287.26	No
104	Kentucky Coffeetree	Gymnocladus dioicus	Remove	Alternative 5 Impact Area	NA	NA	422.97	Yes
105	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Impact Area	NA	NA	247.92	Yes
106	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 5 Impact Area	1	NA	805.50	Yes
107	Honey-Locust	Gleditsia triacanthos	Remove	Alternative 5 Impact Area	4	NA	7658.23	Yes
108	Spruce - Colorado	Picea pungens	Remove	Alternative 5 Study Area	1	NA	571.44	Yes
109	Spruce - White	Picea glauca	Remove	Alternative 5 Study Area	1	NA	547.54	Yes
110	Mulberry - White	Morus alba	Protect	Alternative 5 Study Area	NA	NA	299.63	No
111	Spruce - Colorado	Picea pungens	Protect - Injury	Alternative 5 Study Area	NA	NA	617.49	No
112	Oak - Red	Quercus rubra	Remove	Alternative 5 Impact Area	1	NA	413.82	Yes
113	Oak - Red	Quercus rubra	Remove	Alternative 5 Impact Area	1	NA	387.80	Yes
114	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
115	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
116	Oak - Red	Quercus rubra	Remove	Alternative 5 Impact Area	1	NA	443.85	Yes
117	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
118	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
119	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 5 Impact Area	1	NA	305.64	Yes
120	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Remove	Alternative 5 Impact Area	1	NA	305.64	Yes
121	Lilac - Ivory Silk	Syringa reticulata 'Ivory Silk'	Protect	Alternative 5 Study Area	NA	NA	305.64	No
122	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Impact Area	NA	NA	247.92	Yes
123	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Impact Area	NA	NA	247.92	Yes
124	Linden - Little-Leaf	Tilia cordata	Remove	Alternative 5 Impact Area	NA	NA	260.38	Yes
125	Pine - Austrian	Pinus nigra	Protect	Outside Alternative 5 Study Area	NA	NA	3041.61	No
126	Sweetgum	Liquidambar styraciflua	Retain	Outside Alternative 5 Study Area	NA	NA	257.60	No
127	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 5 Study Area	NA	NA	213.99	No
128	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	382.76	No
129	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	358.35	No
130	Pear sp.	Pyrus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	414.41	No
131	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	230.57	No
132	Linden - Little-Leaf	Tilia cordata	Retain	Outside Alternative 5 Study Area	NA	NA	295.96	No
133	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	365.03	No
134	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	424.35	No
135	Spruce - White	Picea glauca	Protect	Outside Alternative 5 Study Area	NA	NA	340.94	No
136	Cottonwood - Eastern	Populus deltoides	Protect	Outside Alternative 5 Study Area	NA	NA	1657.43	No
137	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 5 Study Area	NA	NA	240.06	No
138	Catalpa - Northern	Catalpa speciosa	Retain	Outside Alternative 5 Study Area	NA	NA	226.50	No
139	Catalpa - Northern	Catalpa speciosa	Protect	Outside Alternative 5 Study Area	NA	NA	240.06	No
140	Oak - English	Quercus robur	Protect	Alternative 5 Study Area	NA	NA	8111.92	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
141	Maple - Norway	Acer platanoides	47					47	11	20	Fair	ER, GR, MB, PP, WNC, UW, SC	3	City of Mississauga (Road ROW)	No	No
142	Spruce - White	Picea glauca	30					30	6	35	Fair	LT, CD, CN, PP, UW, RP	1.8	Private	No	No
143	Maple - Silver	Acer saccharinum	61					61	13	15	Good	GC, FK@2M, FK@4M, BR3, PF, 1SD, SC, RP	4.2	City of Mississauga (Road ROW)	No	No
144	Maple - Norway	Acer platanoides	62					62	16	15	Good	FK@2M, UW, PP, WC, 1SD	4.2	Private	No	No
145	Honey-Locust	Gleditsia triacanthos	6					6	1	15	Fair	LT, SL	1.2	City of Mississauga (Road ROW)	No	No
146	Pine - Scots	Pinus sylvestris	26					26	5	25	Fair	LT, PTL, DW, AD (sapsucker), RP	1.8	City of Mississauga (Road ROW)	No	No
147	Maple - Norway	Acer platanoides	32					32	12	35	Fair	BSD, TW, DE, PB, CD, MB, RP	2.4	City of Mississauga (Road ROW)	No	No
148	Spruce - Colorado	Picea pungens	14					14	3	0	Good	LT, SF	1.5	Private	No	No
149	Apple sp.	Malus sp.	27					27	5	35	Fair	CT, TW, DE, CD, PP, RP	1.8	Private	No	No
150	Mulberry - White	Morus alba	5	5	3			8	3	0	Fair	TK3, PP, SC	1.2	City of Mississauga (Road ROW)	No	No
151	Spruce - White	Picea glauca	35					35	8	20	Fair	LT, 1SD, UW, PL	2.4	Private	No	No
152	Honey-Locust	Gleditsia triacanthos	48					48	8	20	Fair	GC, RH, SC, PP, UW, DW, RP	3	Private	No	No
153	Serviceberry sp.	Amelanchier sp.	1	1	1	1	1	2	1	15	Fair	TK6, SB, RP	2.4	City of Mississauga (Park)	No	Yes
154	Serviceberry sp.	Amelanchier sp.	1	1	1	1		2	1	20	Fair	TK4, FS, RP	2.4	City of Mississauga (Park)	No	Yes
155	Birch - White	Betula papyrifera	25					25	0	100	Dead	DW, RM	0	Private	No	No
156	Pine - Austrian	Pinus nigra	45					45	10	15	Good	PP, FK@2M, FS, RP	3	City of Mississauga (Road ROW)	No	No
157	Juniper - Eastern	Juniperus virginiana	10	7	5			13	3	25	Fair	LS, TK3, DW, 1SD, UC	1.5	City of Mississauga (Road ROW)	No	No
158	Douglas-Fir	Pseudotsuga menziesii	30					30	6	10	Good	DC, SF	1.8	City of Mississauga (Road ROW)	No	No
159	Juniper - Eastern	Juniperus virginiana	12	8	8	5		17	4	45	Poor	TK4, SN, LS, 1SD	1.5	City of Mississauga (Road ROW)	No	No
160	Douglas-Fir	Pseudotsuga menziesii	19					19	4	25	Fair	1SD, DW, RP	1.5	City of Mississauga (Road ROW)	No	No
161	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
162	Maple - Manitoba	Acer negundo	6					6	1	25	Fair	MB, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
163	Maple - Manitoba	Acer negundo	2					2	1	10	Fair	SP, GTF	1.2	City of Mississauga (Road ROW)	No	No
164	Maple - Freeman	Acer x freemanii	4	3				5	1	15	Fair	TK2, SP, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
165	Ash - White	Fraxinus americana	4					4	1	10	Fair	SL, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
166	Maple - Manitoba	Acer negundo	7	6	5			10	2	10	Fair	TK3, GTF, SL, ML, RP	1.5	City of Mississauga (Road ROW)	No	No
167	Maple - Manitoba	Acer negundo	10	7				12	4	15	Fair	TK2, MB, ML, FS, ST, RP	1.5	City of Mississauga (Road ROW)	No	No
168	Ash - White	Fraxinus americana	11	10				15	6	15	Fair	TK2, EAB, PP, SC, RP	1.5	City of Mississauga (Road ROW)	No	No
169	Cedar - Eastern-White	Thuja occidentalis	15					15	4	0	Good	DC, SF	1.5	Private	No	No
170	Maple - Manitoba	Acer negundo	10	4				11	4	15	Fair	TK2, GTF, PP, ST, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
171	Maple - Silver	Acer saccharinum	53					53	14	15	Good	FK@3M, BR2, SN, MB, FS, RP	3.6	Private	No	No
172	Juniper - Eastern	Juniperus virginiana	31					31	7	25	Fair	PTL, GC, PL, RP	2.4	Private	No	No
173	Juniper - Eastern	Juniperus virginiana	33					33	6	25	Fair	PL, SL, CS, RP	2.4	Private	No	No
174	Mountain-Ash - European	Sorbus aucuparia	12	11				16	4	5	Good	TK2, LS, CT	1.5	Private	No	No
175	Spruce - Colorado	Picea pungens	41					41	5	20	Good	SF, SL, LT	3	City of Mississauga (Road ROW)	No	No
176	Maple - Norway	Acer platanoides	58					58	17	15	Good	MB, RH, DW, FS, UW, SN, RP	3.6	City of Mississauga (Road ROW)	No	No
177	Maple - Silver	Acer saccharinum	61					61	13	15	Good	FK@4M, SN, PF, NST, UW, RP	4.2	City of Mississauga (Road ROW)	No	No
178	Apple sp.	Malus sp.	45					45	9	15	Good	MB, TT, SC, PP, DW, FS, SB, RP	3	City of Mississauga (Road ROW)	No	No
179	Apple sp.	Malus sp.	14					14	0	100	Dead	PB, LN (M), DW, RM	0	Private	No	No
180	Cherry - Sweet	Prunus avium	36					36	9	15	Good	MB, FC, WC, DW, RP	2.4	Private	No	No
181	Mulberry - White	Morus alba	25	24	19	17		43	9	15	Good	TK4, ER, PP, DW, FS, RP	3	City of Mississauga (Road ROW)	No	No
182	Apple sp.	Malus sp.	20	19				28	0	100	Dead	TK2, DW, DE, PF, RM	0	City of Mississauga (Road ROW)	No	No
183	Cherry - Sweet	Prunus avium	57					57	9	30	Fair	MB, PP, PF, ST, FS, RP	3.6	Private	No	No
184	Spruce - Colorado	Picea pungens	55					55	7	10	Good	SF, LT	3.6	Private	No	No
185	Spruce - Colorado	Picea pungens	28					28	5	15	Good	LT, PL, DW, RP	1.8	Private	No	No
186	Spruce - Colorado	Picea pungens	29					29	5	10	Good	LT, DC, SF	1.8	Private	No	No
187	Spruce - Colorado	Picea pungens	41					41	6	10	Good	LT, SF, DC	3	Private	No	No
188	Apple sp.	Malus sp.	17	14	12			25	8	5	Good	TK3, PTL, PP, PC	1.8	City of Mississauga (Road ROW)	No	No
189	Apple sp.	Malus sp.	9					9	4	15	Fair	SC, PC	1.2	City of Mississauga (Road ROW)	No	No
190	Apple sp.	Malus sp.	16	14				21	8	15	Good	TK2, FS, SC, PP, PC, RP	1.8	City of Mississauga (Road ROW)	No	No
191	Cherry - Sweet	Prunus avium	23	21				31	7	15	Good	TK2, PB, PP, SC, PC, IB	2.4	Private	No	No
192	Serviceberry sp.	Amelanchier sp.	1	1	1			2	1	10	Fair	TK3, FS, RP	1.2	City of Mississauga (Road ROW)	No	No
193	Cedar - Eastern-White	Thuja occidentalis	3	3	2	2		5	1	0	Fair	TK4, PP, VC	1.2	City of Mississauga (Road ROW)	No	No
194	Mountain-Ash - European	Sorbus aucuparia	7					7	2	5	Fair	DC, SF	1.2	Private	No	No
195	Spruce - Colorado	Picea pungens	15					15	3	0	Good	LT, DC, PP	1.5	Private	No	No
196	Serviceberry sp.	Amelanchier sp.	1					1	1	25	Fair	SP	1.2	City of Mississauga (Road ROW)	No	No
197	Maple - Manitoba	Acer negundo	23	9	5			25	5	10	Good	TK3, GTF, FK@3M, ETB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
198	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP	1.2	City of Mississauga (Road ROW)	No	No
199	Maple - Norway	Acer platanoides	4	2				4	1	15	Fair	TK2, LS, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
200	Maple - Norway	Acer platanoides	7					7	2	10	Fair	FS, GTF, TD, FK2@2M, SF,	1.2	City of Mississauga (Road ROW)	No	No
201	Maple - Norway	Acer platanoides	8	4				9	3	10	Poor	GTF, FK2@2M, TD, WNC, SF, PP, TK2	1.2	City of Mississauga (Road ROW)	No	No
202	Maple - Manitoba	Acer negundo	18	17	14			28	8	10	Fair	TK3, GTF, ETB, SB, SC, RP	1.8	City of Mississauga (Road ROW)	No	No
203	Maple - Norway	Acer platanoides	2	1				2	1	25	Fair	TK2, PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
204	Maple - Norway	Acer platanoides	8					8	1	30	Fair	PP, ML, GTF, RP	1.2	City of Mississauga (Road ROW)	No	No
205	Maple - Manitoba	Acer negundo	14	14	9			22	7	10	Good	TK3, GTF, RH, ST, PP, TD, WNC	1.8	City of Mississauga (Road ROW)	No	No
206	Cherry - Sweet	Prunus avium	6					6	1	15	Fair	PP, GTF, ML, RP	1.2	City of Mississauga (Road ROW)	No	No
207	Maple - Manitoba	Acer negundo	4					4	1	20	Fair	GTF, PP, LS, RP	1.2	City of Mississauga (Road ROW)	No	No
208	Maple - Manitoba	Acer negundo	10	5	4			12	3	25	Poor	TK3, LN(M), GTF, SB, ST, PP, ML, RP	1.5	Private	No	No
209	Maple - Norway	Acer platanoides	13	12				18	6	20	Fair	GTF, TK2, PP, TD, WNC, ML PB	1.5	City of Mississauga (Road ROW)	No	No
210	Spruce - Norway	Picea abies	29					29	5	15	Good	PP, 1SD, RP	1.8	City of Mississauga (Road ROW)	No	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
141	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	4	NA	3967.48	Yes
142	Spruce - White	Picea glauca	Protect - Injury	Alternative 5 Study Area	NA	NA	1942.38	No
143	Maple - Silver	Acer saccharinum	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	7387.53	No
144	Maple - Norway	Acer platanoides	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	8664.70	No
145	Honey-Locust	Gleditsia triacanthos	Protect	Alternative 5 Study Area	NA	NA	315.98	No
146	Pine - Scots	Pinus sylvestris	Protect	Alternative 5 Study Area	NA	NA	1043.33	No
147	Maple - Norway	Acer platanoides	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	1976.06	No
148	Spruce - Colorado	Picea pungens	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	850.15	No
149	Apple sp.	Malus sp.	Protect	Alternative 5 Study Area	NA	NA	1202.25	No
150	Mulberry - White	Morus alba	Protect	Alternative 5 Study Area	NA	NA	299.63	No
151	Spruce - White	Picea glauca	Protect - Injury	Alternative 5 Study Area	NA	NA	2544.78	No
152	Honey-Locust	Gleditsia triacanthos	Protect - Injury	Alternative 5 Study Area	NA	NA	4015.32	No
153	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
154	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
155	Birch - White	Betula papyrifera	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	NA	NA	175.97	No
156	Pine - Austrian	Pinus nigra	Remove	Alternative 5 Impact Area	3	NA	4359.50	Yes
157	Juniper - Eastern	Juniperus virginiana	Remove	Alternative 5 Impact Area	1	NA	407.67	Yes
158	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 5 Impact Area	2	NA	2321.74	Yes
159	Juniper - Eastern	Juniperus virginiana	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Impact Area	2	NA	333.94	Yes
160	Douglas-Fir	Pseudotsuga menziesii	Remove	Alternative 5 Impact Area	2	NA	866.90	Yes
161	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	1	NA	117.88	Yes
162	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	1	NA	105.67	Yes
163	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	NA	NA	75.61	Yes
164	Maple - Freeman	Acer x freemanii	Remove	Alternative 5 Impact Area	NA	NA	280.95	Yes
165	Ash - White	Fraxinus americana	Remove	Alternative 5 Impact Area	NA	NA	187.26	Yes
166	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	1	NA	165.77	Yes
167	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	1	NA	207.09	Yes
168	Ash - White	Fraxinus americana	Remove	Alternative 5 Impact Area	1	NA	559.15	Yes
169	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 5 Study Area	NA	NA	703.51	No
170	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	1	NA	185.49	Yes
171	Maple - Silver	Acer saccharinum	Protect - Injury	Alternative 5 Study Area	NA	NA	5642.58	No
172	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 5 Study Area	NA	NA	1621.21	No
173	Juniper - Eastern	Juniperus virginiana	Protect	Alternative 5 Study Area	NA	NA	1817.34	No
174	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 5 Study Area	NA	NA	735.43	No
175	Spruce - Colorado	Picea pungens	Remove	Alternative 5 Impact Area	3	NA	4449.09	Yes
176	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 5 Study Area	NA	NA	7623.86	No
177	Maple - Silver	Acer saccharinum	Remove	Alternative 5 Impact Area	5	NA	7387.53	Yes
178	Apple sp.	Malus sp.	Remove	Alternative 5 Impact Area	3	NA	3906.96	Yes
179	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	NA	NA	72.81	No
180	Cherry - Sweet	Prunus avium	Protect	Alternative 5 Study Area	NA	NA	2646.72	No
181	Mulberry - White	Morus alba	Protect - Injury	Alternative 5 Study Area	NA	NA	4029.57	No
182	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	NA	NA	206.41	Yes
183	Cherry - Sweet	Prunus avium	Protect	Outside Alternative 5 Study Area	NA	NA	4898.89	No
184	Spruce - Colorado	Picea pungens	Remove	Alternative 5 Study Area	NA	NA	7706.32	No
185	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	2275.19	No
186	Spruce - Colorado	Picea pungens	Remove	Alternative 5 Study Area	NA	NA	2413.33	No
187	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	4449.09	No
188	Apple sp.	Malus sp.	Remove	Alternative 5 Impact Area	2	NA	1362.25	Yes
189	Apple sp.	Malus sp.	Remove	Alternative 5 Impact Area	1	NA	289.43	Yes
190	Apple sp.	Malus sp.	Remove	Alternative 5 Impact Area	2	NA	1027.81	Yes
191	Cherry - Sweet	Prunus avium	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	2016.44	No
192	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	170.47	Yes
193	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 5 Impact Area	NA	NA	189.34	Yes
194	Mountain-Ash - European	Sorbus aucuparia	Protect	Alternative 5 Study Area	NA	NA	263.01	No
195	Spruce - Colorado	Picea pungens	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	920.43	No
196	Serviceberry sp.	Amelanchier sp.	Remove	Alternative 5 Impact Area	NA	NA	165.20	Yes
197	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	2	NA	850.07	Yes
198	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Impact Area	1	NA	220.91	Yes
199	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	NA	NA	282.08	Yes
200	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	1	NA	337.54	Yes
201	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Impact Area	1	NA	220.91	Yes
202	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	2	NA	808.13	Yes
203	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	NA	NA	261.92	Yes
204	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	1	NA	362.75	Yes
205	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	2	NA	679.22	Yes
206	Cherry - Sweet	Prunus avium	Remove	Alternative 5 Impact Area	1	NA	213.99	Yes
207	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	NA	NA	86.88	Yes
208	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Impact Area	NA	NA	116.91	No
209	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	NA	799.69	Yes
210	Spruce - Norway	Picea abies	Remove	Alternative 5 Impact Area	2	NA	2232.40	Yes

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
211	Maple - Manitoba	Acer negundo	5					5	2	30	Poor	GTF, PP, MB, TD, SB, LS	1.2	City of Mississauga (Road ROW)	No	No
212	Spruce - Norway	Picea abies	31					31	5	15	Good	SL, SF	2.4	Private	No	No
213	Apple sp.	Malus sp.	6	6	6	5		12	2	5	Fair	TK4, FS, RP	1.5	City of Mississauga (Road ROW)	No	No
214	Apple sp.	Malus sp.	12					12	3	20	Fair	LT, PP, MB, WNC, SC,	1.5	Private	No	No
215	Cherry - Sweet	Prunus avium	48					48	5	35	Fair	PP, RH, FK@3M, CD, PC, RP	3	Private	No	No
216	Spruce - Colorado	Picea pungens	47					47	6	25	Fair	LT, PL, CD, CN	3	Private	No	No
217	Mulberry - White	Morus alba	8	7	7	5		14	8	10	Good	TK4, PP, TW, WNC, MB, FS, RP, LT	1.5	City of Mississauga (Road ROW)	No	No
218	Spruce - White	Picea glauca	27					27	5	15	Good	ER, LT, PP, DC	1.8	Private	No	No
219	Cedar - Eastern-White	Thuja occidentalis	8	7	5			12	2	0	Fair	LS, PP, CS	1.5	Private	No	No
220	Spruce - White	Picea glauca	35					35	9	5	Good	LT, SF, DC, PP, TW, WC, RP	2.4	City of Mississauga (Road ROW)	No	No
221	Mulberry - White	Morus alba	7	5				9	4	5	Fair	TK2, LN (L), ST, RP	1.2	City of Mississauga (Road ROW)	No	No
222	Cherry - Sweet	Prunus avium	20					20	6	10	Good	PB, TW, WNC, MB, RP	1.5	Private	No	No
223	Maple - Silver	Acer saccharinum	42					42	15	10	Good	LT, FK4@3M, MB, DC, SN, PP, WNC	3	Private	No	No
224	Cherry sp.	Prunus sp.	4	3	3			6	2	15	Fair	TK3, ML, RP	1.2	Private	No	No
225	Cherry sp.	Prunus sp.	7					7	2	10	Fair	1SD, ML, DC	1.2	Private	No	No
226	Pine - Austrian	Pinus nigra	32					32	9	10	Good	LT, PP, TW, WNC, 1SD, DW, BR3	2.4	City of Mississauga (Road ROW)	No	No
227	Pine - Austrian	Pinus nigra	30					30	8	10	Good	LT, LNM, PP, WNC, DW,	1.8	City of Mississauga (Road ROW)	No	No
228	Maple - Silver	Acer saccharinum	12	11	10	9	8	23	5	5	Good	TK8, SB, FS, ML, RP	1.8	Private	No	No
229	Pine - Austrian	Pinus nigra	27					27	8	10	Good	LT, PP, TW, WNC, 1SD, DW	1.8	Private	No	No
230	Spruce - White	Picea glauca	33					33	6	10	Good	DC, SF, PP	4	Private	Yes	No
231	Spruce - White	Picea glauca	21					21	0	100	Hazard	DW, PB, HP, R,	0	Private	Yes	No
232	Maple - Manitoba	Acer negundo	20	19	16	15		35	10	25	Fair	TK4, SB, FS, GTF, PP, UW, SN, CT, VC, RP	6	City of Mississauga (Road ROW)	Yes	No
233	Cedar - Eastern-White	Thuja occidentalis	14	16	14			25	5	35	Fair	LT, PP, CS, BR1, TW, WC, WNC, SF, PF, BSD,	3.5	City of Mississauga (Road ROW)	Yes	No
234	Maple - Norway	Acer platanoides	12					12	4	10	Good	1SD, UC, LS	3	City of Mississauga (Road ROW)	Yes	No
235	Maple - Norway	Acer platanoides	19					19	8	10	Good	LN (L), FK@2M, UW, RP	5	City of Mississauga (Road ROW)	Yes	No
236	Cedar - Eastern-White	Thuja occidentalis	38					38	6	25	Fair	FK2@2M, SF, PP, SN, DW, ER, IB, LT, CS	4	City of Mississauga (Road ROW)	Yes	No
237	Maple - Norway	Acer platanoides	13	10	9			19	7	10	Good	TK3, DW, FS, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
238	Maple - Norway	Acer platanoides	25					25	6	10	Good	GC, FK@2M, UW, RP	4	City of Mississauga (Road ROW)	Yes	No
239	Cedar - Eastern-White	Thuja occidentalis	14	14				20	4	15	Good	LT, TK2, CS, IB, PP, WC, SF	3	City of Mississauga (Road ROW)	Yes	No
240	Maple - Norway	Acer platanoides	19	14	13			27	7	20	Fair	TK3, FS, 1SD, UW, RP	4.5	City of Mississauga (Road ROW)	Yes	No
241	Maple - Norway	Acer platanoides	18					18	9	10	Good	UW, LT, PP, DW, RP, FK2@2M, BR1	5.5	City of Mississauga (Road ROW)	Yes	No
242	Maple - Norway	Acer platanoides	22					22	6	10	Good	GTF, FK@2M, MB, UW, TW, WNC, DW, RP	4	City of Mississauga (Road ROW)	Yes	No
243	Fir - Balsam	Abies balsamea	25					25	6	10	Good	LT, DC, SF	4	Private	Yes	No
244	Maple - Norway	Acer platanoides	32					32	13	10	Good	GTF, UW, TW, WC, FK2@3M, DW, PP, MB	7.5	City of Mississauga (Road ROW)	Yes	No
245	Maple - Norway	Acer platanoides	43					43	10	70	Poor	LT, GTF, PF, FK3@1.5M, BR3, BSD, WNC, SN, PP, DW, BC, CD, RP, SC	6	City of Mississauga (Park)	Yes	Yes
246	Maple - Norway	Acer platanoides	5	5	5	4	4	10	4	50	Poor	RFS, TK7, DW, GTF, UW, FS, WNC, PB, RP,	3	City of Mississauga (Road ROW)	Yes	No
247	Maple - Norway	Acer platanoides	3					3	2	10	Fair	RFF, GTF, PP	2.4	City of Mississauga (Park)	Yes	Yes
248	Maple - Norway	Acer platanoides	13	15	10			22	6	20	Poor	GTF, LT, UW, PP, MB, PB, DW, RT, RP	4	City of Mississauga (Road ROW)	Yes	No
249	Cherry - Sweet	Prunus avium	5					5	1	5	Fair	GTF, SL, LS	2.4	City of Mississauga (Park)	Yes	Yes
250	Maple - Manitoba	Acer negundo	13	11				17	5	30	Fair	TK2, FS, GTF, LS, RP	3.5	City of Mississauga (Park)	Yes	Yes
251	Maple - Norway	Acer platanoides	18					18	9	10	Good	LT, RH, PP, UW, CS, LNL, RP	5.5	Private	Yes	No
252	Elm - Siberian	Ulmus pumila	61					61	11	10	Good	FK@2M, FK@3M, RH, ST, PF, NST, DC, RP	8.4	City of Mississauga (Park)	Yes	Yes
253	Maple - Manitoba	Acer negundo	7					7	2	15	Fair	FK@2M, GTF, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
254	Maple - Manitoba	Acer negundo	12					12	4	15	Fair	GTF, CT, SL	3	City of Mississauga (Park)	Yes	Yes
255	Maple - Manitoba	Acer negundo	16	17	17	11	19	36	13	20	Fair	PF, GTF, SC, ST, SB, PP, DW, WNC, BR2, IB, TK6	7.5	City of Mississauga (Park)	Yes	Yes
256	Apple sp.	Malus sp.	30	12				32	7	10	Good	TK2, FK@2M, GTF, SB, 1SD, FS, FK@4M, SC, RP	4.8	City of Mississauga (Park)	Yes	Yes
257	Maple - Manitoba	Acer negundo	17	18				25	8	10	Fair	TK2, LNM, ST, SB, RP, MB	5	City of Mississauga	Yes	Yes
258	Maple - Manitoba	Acer negundo	29					29	6	15	Good	GTF, LN (L), CT, SC, RP	4	City of Mississauga (Park)	Yes	Yes
259	Elm - Siberian	Ulmus pumila	45	42				62	8	15	Good	TK2, IB, FS, LN (M), 1SD	8.4	City of Mississauga (Park)	Yes	Yes
260	Maple - Norway	Acer platanoides	4	5	5	4	4	10	3	10	Poor	ML, MB, LNL, LS, 1SD, BSD, RFS, TK5, WC	2.5	City of Mississauga	Yes	Yes
261	Maple - Manitoba	Acer negundo	39	29	20			53	13	25	Fair	TK3, SB, PF, FK@3M, DW, CT, LN (M), RP	7.5	City of Mississauga (Park)	Yes	Yes
262	Maple - Norway	Acer platanoides	16					16	6	10	Good	GTF, SB, ETB, LS, PP, FS	4	City of Mississauga (Park)	Yes	Yes
263	Cottonwood - Eastern	Populus deltoides	78					78	0	100	Hazard	DW, PP, PB, PC, HP, RM	0	City of Mississauga (Park)	Yes	Yes
264	Maple - Manitoba	Acer negundo	4	3	3	3	3	7	5	5	Fair	TK8, BSD, TD, RT, RP, MB, CT, LNL	3.5	City of Mississauga	Yes	Yes
265	Spruce - Colorado	Picea pungens	17					17	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
266	Spruce - Colorado	Picea pungens	16					16	3	0	Good	LT, DC, SF	2.5	Private	Yes	No
267	Maple - Manitoba	Acer negundo	6	4	3	3	3	9	5	10	Fair	TK5, MB, RT, CT, 1SD, LNL, BSD	3.5	City of Mississauga	Yes	Yes
268	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
269	Spruce - Colorado	Picea pungens	5	5				7	2	0	Fair	LT, RH, TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
270	Spruce - White	Picea glauca	12					12	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
271	Maple - Manitoba	Acer negundo	10	7	3	3		13	5	10	Fair	TK4, RT, LNL, LS, 1SD, TW, WC	3.5	City of Mississauga	Yes	Yes
272	Spruce - White	Picea glauca	10					10	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
273	Spruce - White	Picea glauca	10					10	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
274	Spruce - White	Picea glauca	12					12	3	5	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
275	Maple - Manitoba	Acer negundo	9	5	5	5	4	13	5	10	Fair	TK7, MB, RT, LS, CT, ST,	3.5	City of Mississauga	Yes	Yes
276	Spruce - White	Picea glauca	13					13	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
277	Spruce - White	Picea glauca	9					9	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
278	Maple - Manitoba	Acer negundo	8	5	3			10	4	15	Fair	TK3, SB, ST, MB, RT, LS, CT	3	City of Mississauga	Yes	Yes
279	Maple - Manitoba	Acer negundo	5	3	3	3		7	3	15	Fair	TK3, RT, MB, SB, CT, LS, SC	2.5	City of Mississauga	Yes	Yes
280	Pine - Eastern White	Pinus strobus	24					24	5	5	Good	LY, DC, SF	3.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
211	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Impact Area	NA	NA	53.82	Yes
212	Spruce - Norway	Picea abies	Protect	Alternative 5 Study Area	NA	NA	2504.09	No
213	Apple sp.	Malus sp.	Remove	Alternative 5 Impact Area	1	NA	378.17	Yes
214	Apple sp.	Malus sp.	Protect	Alternative 5 Study Area	NA	NA	378.17	No
215	Cherry - Sweet	Prunus avium	Protect	Outside Preliminary Tree Inventory Study Area	NA	NA	3520.98	No
216	Spruce - Colorado	Picea pungens	Protect	Alternative 5 Study Area	NA	NA	4439.76	No
217	Mulberry - White	Morus alba	Remove	Alternative 5 Impact Area	1	NA	656.01	Yes
218	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	2097.33	No
219	Cedar - Eastern-White	Thuja occidentalis	Protect	Alternative 5 Study Area	NA	NA	401.09	No
220	Spruce - White	Picea glauca	Remove	Alternative 5 Impact Area	3	NA	3283.58	Yes
221	Mulberry - White	Morus alba	Remove	Alternative 5 Impact Area	1	NA	326.52	Yes
222	Cherry - Sweet	Prunus avium	Protect	Alternative 5 Study Area	NA	NA	960.96	No
223	Maple - Silver	Acer saccharinum	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	3643.17	No
224	Cherry sp.	Prunus sp.	Protect	Alternative 5 Study Area	NA	NA	182.32	No
225	Cherry sp.	Prunus sp.	Protect	Alternative 5 Study Area	NA	NA	199.02	No
226	Pine - Austrian	Pinus nigra	Remove	Alternative 5 Impact Area	3	NA	2348.51	Yes
227	Pine - Austrian	Pinus nigra	Remove	Alternative 5 Impact Area	2	NA	2099.40	Yes
228	Maple - Silver	Acer saccharinum	Remove	Alternative 5 Study Area	NA	NA	1280.22	No
229	Pine - Austrian	Pinus nigra	Protect	Alternative 5 Study Area	NA	NA	1755.86	No
230	Spruce - White	Picea glauca	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	2958.32	No
231	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	NA	NA	176.07	No
232	Maple - Manitoba	Acer negundo	Remove	Alternative 5 Impact Area	3	15	1222.28	Yes
233	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 5 Impact Area	2	10	1256.97	Yes
234	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	1	3	641.54	Yes
235	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	3	1112.08	Yes
236	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 5 Impact Area	3	15	2714.29	Yes
237	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	3	1112.08	Yes
238	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	10	1684.55	Yes
239	Cedar - Eastern-White	Thuja occidentalis	Remove	Alternative 5 Impact Area	2	3	1105.30	Yes
240	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	10	1480.30	Yes
241	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	3	1031.85	Yes
242	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	2	10	1378.80	Yes
243	Fir - Balsam	Abies balsamea	Protect	Alternative 5 Study Area	NA	NA	1165.13	No
244	Maple - Norway	Acer platanoides	Remove	Alternative 5 Impact Area	3	15	2549.75	Yes
245	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	3	20	1898.18	Yes
246	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	1	1	238.93	Yes
247	Maple - Norway	Acer platanoides	Protect	Alternative 5 Study Area	NA	NA	270.32	No
248	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Alternative 5 Study Area	2	10	603.23	Yes
249	Cherry - Sweet	Prunus avium	Protect	Outside Alternative 5 Study Area	NA	NA	197.95	No
250	Maple - Manitoba	Acer negundo	Protect	Outside Alternative 5 Study Area	NA	NA	343.26	No
251	Maple - Norway	Acer platanoides	Protect - Injury	Alternative 5 Study Area	NA	NA	1031.85	No
252	Elm - Siberian	Ulmus pumila	Protect	Outside Alternative 5 Study Area	NA	NA	4795.81	No
253	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	117.88	No
254	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	207.09	No
255	Maple - Manitoba	Acer negundo	Protect - Minor Injury	Alternative 5 Study Area	NA	NA	1288.96	No
256	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2087.50	No
257	Maple - Manitoba	Acer negundo	Protect	Alternative 5 Study Area	NA	NA	658.81	No
258	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1111.82	No
259	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 5 Study Area	NA	NA	4948.78	No
260	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	238.93	No
261	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	2709.84	No
262	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	884.40	No
263	Cottonwood - Eastern	Populus deltoides	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	1651.80	No
264	Maple - Manitoba	Acer negundo	Protect	Outside Alternative 5 Study Area	NA	NA	117.88	No
265	Spruce - Colorado	Picea pungens	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1075.54	No
266	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	995.56	No
267	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	147.93	No
268	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	758.01	No
269	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	382.76	No
270	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	698.22	No
271	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	230.57	No
272	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	592.99	No
273	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	592.99	No
274	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	698.22	No
275	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	230.57	No
276	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	758.01	No
277	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	547.54	No
278	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	165.77	No
279	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	117.88	No
280	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	1689.29	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
281	Pine - Eastern White	Pinus strobus	22					22	4	15	Good	LT, DC, DW, RP	3	Private	Yes	No
282	Pine - Eastern White	Pinus strobus	21					21	3	10	Good	LT, SL, SF	2.5	Private	Yes	No
283	Walnut - Black	Juglans nigra	5	4				6	3	20	Fair	TK2, RT, FS, CR, SF, LS	2.5	City of Mississauga	Yes	Yes
284	Pine - Eastern White	Pinus strobus	23					23	5	0	Good	LT, DC, SF	3.5	Private	Yes	No
285	Spruce - White	Picea glauca	8					8	3	0	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
286	Spruce - White	Picea glauca	5	4				6	1	10	Fair	LT, TK2, ML, RP, RH	2.4	City of Mississauga	Yes	Yes
287	Maple - Manitoba	Acer negundo	9					9	5	10	Good	LNL, FK2@2.5M, UC, RP	3.5	City of Mississauga	Yes	Yes
288	Spruce - White	Picea glauca	8					8	2	0	Good	LT, SF, DC, RH	2.4	City of Mississauga	Yes	Yes
289	Maple - Manitoba	Acer negundo	4					4	2	15	Fair	LS, SF, LNL, CT, RP	2.4	City of Mississauga	Yes	Yes
290	Spruce - White	Picea glauca	9					9	2	10	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
291	Spruce - White	Picea glauca	7					7	2	0	Good	LT, DC, SF, RH	2.4	City of Mississauga	Yes	Yes
292	Maple - Manitoba	Acer negundo	4					4	1	30	Fair	LS, FS, RP, CT, SF	2.4	City of Mississauga	Yes	Yes
293	Spruce - White	Picea glauca	8					8	3	10	Good	LT, DC, SF, RH	2.5	City of Mississauga	Yes	Yes
294	Pine - Eastern White	Pinus strobus	7					7	0	100	Dead	DW, RM	0	Private	Yes	No
295	Pine - Eastern White	Pinus strobus	21					21	5	15	Good	LT, SF	3.5	Private	Yes	No
296	Maple - Manitoba	Acer negundo	4	3	4			6	3	5	Fair	LS, TK2, CT, RT	2.5	City of Mississauga	Yes	Yes
297	Pine - Eastern White	Pinus strobus	19					19	4	5	Good	LT, DC, SF	3	Private	Yes	No
298	Pine - Eastern White	Pinus strobus	18					18	3	25	Fair	LT, DC, SF, CD	2.5	Private	Yes	No
299	Pine - Eastern White	Pinus strobus	20					20	4	10	Fair	FK@2M, LT, ML, RP	3	Private	Yes	No
300	Pine - Eastern White	Pinus strobus	19					19	3	15	Fair	FK@3M, LT, ML, RP	2.5	Private	Yes	No
301	Maple - Norway	Acer platanoides	46					46	10	10	Good	LT, FK@4M, MB, DC, RP	6	Private	Yes	No
302	Elm - Siberian	Ulmus pumila	6					6	2	15	Fair	GTF, 1SD, UC	2.4	City of Mississauga	Yes	Yes
303	Olive - Russian	Elaeagnus angustifolia	69					69	18	30	Good	ER, BSD, DC, FK2@2M, BR3, DW, SC, SN, PP, WNC, RP, PB	10	City of Mississauga	Yes	Yes
304	Ash - White	Fraxinus americana	7					7	2	35	Fair	ML, EAB, PB, RM	2.4	City of Mississauga	Yes	Yes
305	Ash - White	Fraxinus americana	5					5	2	65	Poor	EAB, DW, RM	2.4	City of Mississauga	Yes	Yes
306	Maple - Manitoba	Acer negundo	7	4				8	4	15	Fair	TK2, LS, SF, TD, WC, CT	3	City of Mississauga	Yes	Yes
307	Maple - Manitoba	Acer negundo	11	8				14	5	10	Good	TK2, MB, SC, RP	3.5	City of Mississauga	Yes	Yes
308	Maple - Manitoba	Acer negundo	5	3	3			7	4	20	Fair	LS, TK3, SF, CT, PP, WNC, RT	3	City of Mississauga	Yes	Yes
309	Maple - Manitoba	Acer negundo	17					17	5	5	Good	FK@2M, DC, RP	3.5	City of Mississauga	Yes	Yes
310	Walnut - Black	Juglans nigra	3					3	1	5	Fair	SL, SF	2.4	City of Mississauga	Yes	Yes
311	Maple - Manitoba	Acer negundo	7					7	3	20	Poor	LS, SF, LNM, RH, UC, BSD	2.5	City of Mississauga	Yes	Yes
312	Maple - Sugar	Acer saccharum	14					14	5	5	Good	DC, SF, NST	3.5	City of Mississauga	Yes	Yes
313	Maple - Manitoba	Acer negundo	13					13	8	10	Good	LT, CT, SB, RP	5	City of Mississauga	Yes	Yes
314	Maple - Sugar	Acer saccharum	12					12	4	10	Good	DC, SF	3	City of Mississauga	Yes	Yes
315	Maple - Manitoba	Acer negundo	6	3	2			7	3	20	Fair	TK3, SB, 1SD, LS	2.5	City of Mississauga	Yes	Yes
316	Maple - Manitoba	Acer negundo	25					25	10	10	Good	GTF, FK2@4M, UC, LNL, MB, RP	6	City of Mississauga	Yes	Yes
317	Maple - Sugar	Acer saccharum	14					14	5	5	Good	MB, DC	3.5	City of Mississauga	Yes	Yes
318	Maple - Sugar	Acer saccharum	14					14	5	0	Good	MB, FS, DC, RP	3.5	City of Mississauga	Yes	Yes
319	Spruce - Colorado	Picea pungens	33					33	6	5	Good	LT, PP, SF	4.8	City of Mississauga	Yes	Yes
320	Maple - Sugar	Acer saccharum	13					13	5	5	Good	MB, DC, BR1, FS, RP	3.5	City of Mississauga	Yes	Yes
321	Maple - Sugar	Acer saccharum	15					15	5	5	Good	DC, MB, FS, RP	3.5	City of Mississauga	Yes	Yes
322	Maple - Manitoba	Acer negundo	5	3	2	2		6	4	15	Fair	TK4, LS, 1SD, RP, RT	3	City of Mississauga	Yes	Yes
323	Maple - Norway	Acer platanoides	28					28	10	15	Good	FK2@4M, 1SD, UC, LNL,	6	City of Mississauga	Yes	Yes
324	Maple - Manitoba	Acer negundo	3	3	3			5	3	5	Fair	TK3, RT, SB, RFS	2.5	City of Mississauga	Yes	Yes
325	Maple - Manitoba	Acer negundo	6					6	3	5	Good	RT, SB, RP	2.5	City of Mississauga	Yes	Yes
326	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	Fair	2.4	City of Mississauga	Yes	Yes
327	Spruce - White	Picea glauca	13					13	3	0	Good	LT, SF, DC	2.5	City of Mississauga	Yes	Yes
328	Spruce - White	Picea glauca	13					13	3	5	Good	SF, DC	2.5	City of Mississauga	Yes	Yes
329	Spruce - White	Picea glauca	14					14	4	0	Good	DC, SF	3	City of Mississauga	Yes	Yes
330	Maple - Manitoba	Acer negundo	6	5				8	2	10	Fair	TK2, SB, ML, FK@3M, RP, RT	2.4	City of Mississauga	Yes	Yes
331	Spruce - White	Picea glauca	12					12	3	15	Good	SL, PP, WNC, LS	2.5	City of Mississauga	Yes	Yes
332	Spruce - White	Picea glauca	10					10	3	10	Good	DC, SF	2.5	City of Mississauga	Yes	Yes
333	Spruce - White	Picea glauca	9					9	3	15	Good	LS, 1SD, SF	2.5	City of Mississauga	Yes	Yes
334	Spruce - White	Picea glauca	3					3	1	25	Fair	LS, PL, DW, RP	2.4	City of Mississauga	Yes	Yes
335	Spruce - White	Picea glauca	5					5	2	10	Fair	DC, SF, LS, PL	2.4	City of Mississauga	Yes	Yes
336	Spruce - White	Picea glauca	6					6	2	25	Fair	LS, PL, CD	2.4	City of Mississauga	Yes	Yes
337	Maple - Manitoba	Acer negundo	13					13	4	10	Good	ER, FK@3M, ML, RP	3	City of Mississauga	Yes	Yes
338	Spruce - White	Picea glauca	6					6	2	15	Fair	LS, DC, FS, SF	2.4	City of Mississauga	Yes	Yes
339	Maple - Norway	Acer platanoides	25					25	9	10	Good	CS, 1SD, UC, PP	5.5	City of Mississauga	Yes	Yes
340	Cedar - Eastern-White	Thuja occidentalis	5	4				6	1	10	Fair	TK2, ML, RP	2.4	City of Mississauga	Yes	Yes
341	Apple sp.	Malus sp.	15	15	10			23	4	30	Fair	LS, SC, MB, CT, TK3, DW	3.6	City of Mississauga	Yes	Yes
342	Alder - European	Alnus glutinosa	7					7	2	20	Fair	CT, SL, DE (canker)	2.4	City of Mississauga	Yes	Yes
343	Maple - Norway	Acer platanoides	18					18	8	10	Good	LT, SN, SF	5	City of Mississauga	Yes	Yes
344	Maple - Norway	Acer platanoides	12					12	3	20	Fair	LS, SL, FK2@5M, IB	2.5	City of Mississauga	Yes	Yes
345	Walnut - Black	Juglans nigra	16					16	5	25	Fair	LN (L), CT, FK@6M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
346	Maple - Norway	Acer platanoides	12					12	3	100	Dead	GTF, Dead	0	City of Mississauga	Yes	Yes
347	Maple - Manitoba	Acer negundo	18					18	4	15	Good	TOB, LN (L), CT, 1SD	3	City of Mississauga	Yes	Yes
348	Walnut - Black	Juglans nigra	3					3	2	25	Fair	SP, SL, LS, CT	2.4	City of Mississauga	Yes	Yes
349	Maple - Norway	Acer platanoides	23	4				23	7	10	Good	1SS, UC, ER, TK2, RT	4.5	City of Mississauga	Yes	Yes
350	Maple - Norway	Acer platanoides	12	11	8			18	4	20	Good	TK3, TOB, SL, RP, RT	3	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
281	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	1469.26	No
282	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	1366.42	No
283	Walnut - Black	Juglans nigra	Retain	Outside Alternative 5 Study Area	NA	NA	315.91	No
284	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	1576.88	No
285	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	506.89	No
286	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	340.94	No
287	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	190.87	No
288	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	506.89	No
289	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	86.88	No
290	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	547.54	No
291	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	471.01	No
292	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	86.88	No
293	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	506.89	No
294	Pine - Eastern White	Pinus strobus	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	53.61	No
295	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	1366.42	No
296	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	105.67	No
297	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	1175.08	No
298	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	842.11	No
299	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	982.98	No
300	Pine - Eastern White	Pinus strobus	Retain	Outside Alternative 5 Study Area	NA	NA	910.69	No
301	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	4917.67	No
302	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 5 Study Area	NA	NA	165.03	No
303	Olive - Russian	Elaeagnus angustifolia	Retain	Outside Alternative 5 Study Area	NA	NA	8717.27	No
304	Ash - White	Fraxinus americana	Retain	Outside Alternative 5 Study Area	NA	NA	245.97	No
305	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	114.75	No
306	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	131.96	No
307	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	330.23	No
308	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	117.88	No
309	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	442.92	No
310	Walnut - Black	Juglans nigra	Retain	Outside Alternative 5 Study Area	NA	NA	271.20	No
311	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	66.54	No
312	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	849.32	No
313	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	297.51	No
314	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	721.64	No
315	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	117.88	No
316	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	850.07	No
317	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	849.32	No
318	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	849.32	No
319	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	3014.36	No
320	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	783.03	No
321	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	920.53	No
322	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	105.67	No
323	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	2029.33	No
324	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	95.34	No
325	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	136.34	No
326	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	86.88	No
327	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	758.01	No
328	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	758.01	No
329	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	822.58	No
330	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	131.96	No
331	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	698.22	No
332	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	592.99	No
333	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	547.54	No
334	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	290.89	No
335	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	320.55	No
336	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	340.94	No
337	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	297.51	No
338	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	340.94	No
339	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1684.55	No
340	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	208.92	No
341	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	920.51	No
342	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	225.00	No
343	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1031.85	No
344	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	497.19	No
345	Walnut - Black	Juglans nigra	Retain	Outside Alternative 5 Study Area	NA	NA	680.19	No
346	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	80.19	No
347	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	485.33	No
348	Walnut - Black	Juglans nigra	Retain	Outside Alternative 5 Study Area	NA	NA	271.20	No
349	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1476.38	No
350	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1031.85	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
351	Maple - Manitoba	Acer negundo	17	14				22	0	100	Dead	TK2, BOB, CT, DW, PB, RM	0	City of Mississauga	Yes	Yes
352	Maple - Silver	Acer saccharinum	6	4				7	4	20	Poor	TK2, ER, RH, SL, LNL, growing out of rip rap	3	City of Mississauga	Yes	Yes
353	Maple - Norway	Acer platanoides	32					32	10	15	Good	BOB, GTF, MB, SN, RP	6	City of Mississauga	Yes	Yes
354	Maple - Norway	Acer platanoides	34					34	11	10	Good	ER, TOB, MB, FS, SN, RP	6.5	Private	Yes	No
355	Maple - Norway	Acer platanoides	23	22				32	11	10	Good	TK2, IB, ER, SN, FS	6.5	City of Mississauga	Yes	Yes
356	Maple - Sugar	Acer saccharum	27					27	6	35	Fair	FK@4M, TOB, SL, RH, CD, DW, RP	4	Private	Yes	No
357	Spruce - White	Picea glauca	5					5	1	60	Poor	LS, 1SD, CD, UC	2.4	City of Mississauga	Yes	Yes
358	Maple - Norway	Acer platanoides	16					16	4	10	Good	GTF, BOB, FK@6M, ML, RP	3	City of Mississauga	Yes	Yes
359	Maple - Norway	Acer platanoides	14	12				18	5	15	Good	TK2, BOB, GTF, SN	3.5	City of Mississauga	Yes	Yes
360	Maple - Manitoba	Acer negundo	16					16	6	100	Dead	BSD, DW, Dead	0	City of Mississauga	Yes	Yes
361	Cherry - Sweet	Prunus avium	21	18	11	10		31	3	45	Poor	TK4, CD, CS, DW, RP	2.5	Private	Yes	No
362	Maple - Norway	Acer platanoides	6	5				8	4	15	Poor	PF, GTF, TK2, SL, LS, BSD, WNC	3	City of Mississauga	Yes	Yes
363	Maple - Manitoba	Acer negundo	40					40	9	25	Fair	ER, SB, TOB, FK@2M, LN (M), 1SD, UC, DW, RP	5.5	City of Mississauga	Yes	Yes
364	Elm - Siberian	Ulmus pumila	8					8	4	10	Fair	RB, CT, 1SD, ML, RP	3	Private	Yes	No
365	Ash - White	Fraxinus americana	3					3	2	35	Fair	SL, LS	2.4	City of Mississauga	Yes	Yes
366	Ash - White	Fraxinus americana	18					18	0	100	Dead	EAB, DW, SN, RM	0	City of Mississauga	Yes	Yes
367	Maple - Silver	Acer saccharinum	53	44				69	18	20	Good	TK2, IB, SC, SN, DW, DC, RP, RT	10	City of Mississauga	Yes	Yes
368	Elm - Siberian	Ulmus pumila	31					31	6	25	Fair	1SD, NST, SN, CD	4	Private	Yes	No
369	Maple - Manitoba	Acer negundo	3	2	2	2	2	5	2	20	Poor	RFS, TK5, DW, RT	2.4	City of Mississauga	Yes	Yes
370	Elm - Siberian	Ulmus pumila	8					8	2	50	Poor	TOB, LN(L), 1SD	2	Private	Yes	No
371	Maple - Norway	Acer platanoides	4					4	1	20	Fair	SL, LS, CT	1.5	Private	Yes	No
372	Ash - White	Fraxinus americana	4					4	0	100	Dead	DW, RM	0	Private	Yes	No
373	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
374	Spruce - White	Picea glauca	20					20	3	50	Fair	LS, SL, DW, 1SD,	2.5	City of Mississauga	Yes	Yes
375	Elm - Siberian	Ulmus pumila	23					23	6	20	Fair	LN (M), CT, DW, SL, RP	4	Private	Yes	No
376	Maple - Norway	Acer platanoides	15	16				22	10	10	Good	TK2, TD, WNC, SN, PP, UC, 1SD	6	City of Mississauga	Yes	Yes
377	Spruce - White	Picea glauca	19					19	6	15	Good	LS, PP, WC,	4	City of Mississauga	Yes	Yes
378	Maple - Manitoba	Acer negundo	31					31	8	10	Good	MOB, LN(L), DE, CT, PF, RP	5	Private	Yes	No
379	Maple - Silver	Acer saccharinum	27	38	24			52	16	15	Good	TK3, DC, BR1, PP, WNC, DW	9	City of Mississauga	Yes	Yes
380	Ash - White	Fraxinus americana	4	3				5	1	25	Fair	TK2, SL, RT	1.5	Private	Yes	No
381	Maple - Manitoba	Acer negundo	30	11	10	10		35	11	40	Fair	TK4, GC, LN (M), CT, DW, 1SD, UC, RP	6.5	Private	Yes	No
382	Maple - Silver	Acer saccharinum	27	48				55	17	10	Good	TK2, FK2@1.5M, DC, CT	9.5	City of Mississauga	Yes	Yes
383	Ash - White	Fraxinus americana	18					18	0	100	Dead	LN (L), EAB, PB, DW, RM	0	Private	Yes	No
384	Apple sp.	Malus sp.	12	7				14	5	15	Good	TK2, LN (L), 1SD, UC, LS, RP	3.5	Private	Yes	No
385	Maple - Silver	Acer saccharinum	73					73	20	10	Good	FK2@1.4M, IB, SC, MB, FS, RP, PP, WNC, SN	11	City of Mississauga	Yes	Yes
386	Ash - White	Fraxinus americana	3	2				4	0	100	Dead	TK2, DW, RM	0	Private	Yes	No
387	Maple - Manitoba	Acer negundo	44					44	13	15	Fair	TT, CV, LN (L), CT, 1SD, UC, SB, SC, FS, PF, RP	7.5	Private	Yes	No
388	Maple - Silver	Acer saccharinum	49					49	16	15	Good	TW, WNC, SC, LNL, UC, RP	9	City of Mississauga	Yes	Yes
389	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, PB, DW, RM	0	Private	Yes	No
390	Ash - White	Fraxinus americana	9					9	0	100	Dead	EAB, TK2, DW, Topped	0	Private	Yes	No
391	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
392	Spruce - White	Picea glauca	21					21	3	20	Fair	TD, PP, LS, SL, WC, WNC, PP, RT	3.6	City of Mississauga	Yes	Yes
393	Maple - Manitoba	Acer negundo	16					16	4	40	Poor	CT, LN (L), DW, LS, SL	3	Private	Yes	No
394	Ash - White	Fraxinus americana	3					3	1	15	Fair	SP, SL, LS	1.5	Private	Yes	No
395	Spruce - White	Picea glauca	19					19	3	100	Dead	LS, DW, PB	0	Private	Yes	No
396	Ash - White	Fraxinus americana	5	4	3			7	3	30	Fair	TK3, EAB, SL, RM	2.5	Private	Yes	No
397	Spruce - White	Picea glauca	33					33	5	15	Good	ER, CT, UC, DW	4.8	City of Mississauga	Yes	Yes
398	Maple - Manitoba	Acer negundo	30	29				42	13	35	Poor	TK2, LN (H), DW, MB, CT, FS, RP	7.5	Private	Yes	No
399	Maple - Norway	Acer platanoides	9	4				10	6	10	Fair	TK2, TOB, ER, LS, SF, RT	4	Private	Yes	No
400	Ash - Green	Fraxinus pennsylvanica	3	2				4	1	10	Good	TK2, LS	2.4	City of Mississauga	Yes	Yes
401	Ash - White	Fraxinus americana	20					20	0	100	Dead	EAB, DW, MB, RM	0	Private	Yes	No
402	Maple - Norway	Acer platanoides	11					11	5	10	Good	BOB, LS, UC, DW	3.5	Private	Yes	No
403	Maple - Manitoba	Acer negundo	41					41	14	25	Fair	LN (L), FK@2M, DE, 1SD	8	Private	Yes	No
404	Maple - Norway	Acer platanoides	9	3				9	3	15	Good	BOB, SL, UC, TK2	2.5	Private	Yes	No
405	Maple - Norway	Acer platanoides	7					7	3	15	Fair	MOB, LS, SF	2.5	Private	Yes	No
406	Maple - Manitoba	Acer negundo	15					15	3	60	Poor	LN (H), DW, CD, RM	2.5	Private	Yes	No
407	Maple - Norway	Acer platanoides	3	2	2			4	3	10	Fair	TK3, LS, RT	2.5	Private	Yes	No
408	Maple - Norway	Acer platanoides	7	5				9	4	15	Fair	TK2, RT, UC, FS, RP, LS, TW, WC	3	City of Mississauga	Yes	Yes
409	Ash - White	Fraxinus americana	27					27	0	100	Fair	EAB, DW, BOB, DW, RM	3.6	City of Mississauga	Yes	Yes
410	Ash - White	Fraxinus americana	7					7	0	100	Dead	LN (M), BOB, ER, DW, RM	0	City of Mississauga	Yes	Yes
411	Ash - White	Fraxinus americana	12	12				17	4	100	Dead	RPM, TK2, PB, DW, fallen into creek	0	City of Mississauga	Yes	Yes
412	Cedar - Eastern-White	Thuja occidentalis	4	4				6	1	15	Fair	TK2, LS, DC	2.4	City of Mississauga	Yes	Yes
413	Cedar - Eastern-White	Thuja occidentalis	4	3				5	1	10	Good	LS, TK2, RT	2.4	City of Mississauga	Yes	Yes
414	Cedar - Eastern-White	Thuja occidentalis	5					5	1	10	Fair	DC, SF, PP	2.4	City of Mississauga	Yes	Yes
415	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	1	10	Good	TK4, LS, DC	2.4	City of Mississauga	Yes	Yes
416	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	15	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
417	Cedar - Eastern-White	Thuja occidentalis	3	2	2			4	1	10	Fair	TK3, LS, RP	2.4	City of Mississauga	Yes	Yes
418	Cedar - Eastern-White	Thuja occidentalis	4	4	3	3	2	7	2	10	Good	TK6, LS	2.4	City of Mississauga	Yes	Yes
419	Cedar - Eastern-White	Thuja occidentalis	3	1				3	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
420	Cedar - Eastern-White	Thuja occidentalis	4	3				5	2	5	Good	TK2, DC, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
351	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	84.90	No
352	Maple - Silver	Acer saccharinum	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	158.30	No
353	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	2549.75	No
354	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	2835.98	No
355	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	2549.75	No
356	Maple - Sugar	Acer saccharum	Retain	Outside Alternative 5 Study Area	NA	NA	1672.50	No
357	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	180.96	No
358	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	884.40	No
359	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1031.85	No
360	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	50.37	No
361	Cherry - Sweet	Prunus avium	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	882.19	No
362	Maple - Norway	Acer platanoides	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	204.78	No
363	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1574.45	No
364	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 5 Study Area	NA	NA	192.02	No
365	Ash - White	Fraxinus americana	Retain	Outside Alternative 5 Study Area	NA	NA	174.80	No
366	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	118.60	No
367	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	9377.37	No
368	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 5 Study Area	NA	NA	1056.57	No
369	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	53.82	No
370	Elm - Siberian	Ulmus pumila	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	108.40	No
371	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	282.08	No
372	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	30.20	No
373	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	1015.62	No
374	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	1015.62	No
375	Elm - Siberian	Ulmus pumila	Retain	Outside Alternative 5 Study Area	NA	NA	640.20	No
376	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1378.80	No
377	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	1217.20	No
378	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1257.23	No
379	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	5441.68	No
380	Ash - White	Fraxinus americana	Retain	Outside Alternative 5 Study Area	NA	NA	203.27	No
381	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1222.28	No
382	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	6055.86	No
383	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	118.60	No
384	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	582.48	No
385	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	10464.14	No
386	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	30.20	No
387	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1889.99	No
388	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	4861.95	No
389	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	48.86	No
390	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	48.86	No
391	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	1091.62	No
392	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	1091.62	No
393	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	176.28	No
394	Ash - White	Fraxinus americana	Retain	Outside Alternative 5 Study Area	NA	NA	174.80	No
395	Spruce - White	Picea glauca	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	152.15	No
396	Ash - White	Fraxinus americana	Retain	Outside Alternative 5 Study Area	NA	NA	245.97	No
397	Spruce - White	Picea glauca	Retain	Outside Alternative 5 Study Area	NA	NA	2958.32	No
398	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	975.75	No
399	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	423.25	No
400	Ash - Green	Fraxinus pennsylvanica	Retain	Outside Alternative 5 Study Area	NA	NA	219.71	No
401	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	140.41	No
402	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	591.66	No
403	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1650.52	No
404	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	504.93	No
405	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	337.54	No
406	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	159.85	No
407	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	282.08	No
408	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	391.32	No
409	Ash - White	Fraxinus americana	Retain	Outside Alternative 5 Study Area	NA	NA	1455.96	No
410	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	39.67	No
411	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	108.55	No
412	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	208.92	No
413	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	244.31	No
414	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	189.34	No
415	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	269.57	No
416	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
417	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
418	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	299.42	No
419	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	160.87	No
420	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	244.31	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
421	Cedar - Eastern-White	Thuja occidentalis	5					5	2	10	Fair	TK2, FS, RP	2.4	City of Mississauga	Yes	Yes
422	Cedar - Eastern-White	Thuja occidentalis	5	5				7	2	25	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
423	Cedar - Eastern-White	Thuja occidentalis	4	4	4	3		8	2	10	Good	TK4, LS	2.4	City of Mississauga	Yes	Yes
424	Cedar - Eastern-White	Thuja occidentalis	3	2	1			4	1	25	Fair	TK3, ML, RP	2.4	City of Mississauga	Yes	Yes
425	Cedar - Eastern-White	Thuja occidentalis	5	3	2			6	1	5	Good	LS, TK3	2.4	City of Mississauga	Yes	Yes
426	Cedar - Eastern-White	Thuja occidentalis	3	2				4	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
427	Cedar - Eastern-White	Thuja occidentalis	5					5	2	30	Fair	SF, LS	2.4	City of Mississauga	Yes	Yes
428	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	1	10	Good	LS, FS, TK5	2.4	City of Mississauga	Yes	Yes
429	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	1	6	2	15	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
430	Cedar - Eastern-White	Thuja occidentalis	3	2	2	1		4	1	15	Fair	TK4, LS, FS, RP	2.4	City of Mississauga	Yes	Yes
431	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2	2	5	1	10	Fair	TK6, FS, LS	2.4	City of Mississauga	Yes	Yes
432	Cedar - Eastern-White	Thuja occidentalis	3	2	2	2		5	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
433	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2	2	6	2	30	Fair	TK5, LS, RP	2.4	City of Mississauga	Yes	Yes
434	Cedar - Eastern-White	Thuja occidentalis	3	3	3	2		6	1	10	Good	LS, TK4, ML	2.4	City of Mississauga	Yes	Yes
435	Cedar - Eastern-White	Thuja occidentalis	4	4				6	3	15	Fair	TK2, DC, RP	2.5	City of Mississauga	Yes	Yes
436	Cedar - Eastern-White	Thuja occidentalis	4	3	2	2		6	2	10	Fair	TK4, DC, RP	2.4	City of Mississauga	Yes	Yes
437	Cedar - Eastern-White	Thuja occidentalis	3	3				4	1	15	Good	LS, TK2, FS, MB	2.4	City of Mississauga	Yes	Yes
438	Cedar - Eastern-White	Thuja occidentalis	4	3	3	3		7	2	10	Fair	TK4, ML, RP	2.4	City of Mississauga	Yes	Yes
439	Cedar - Eastern-White	Thuja occidentalis	4	3	3			6	2	10	Good	TK3, ML, LS, FS	2.4	City of Mississauga	Yes	Yes
440	Maple - Norway	Acer platanoides	34					34	6	25	Fair	PP, 1SD, UC, FK@4M	4	Private	Yes	No
441	Spruce - Colorado	Picea pungens	17					17	2	85	Poor	CD, DW, SL, PP, RM	2	City of Mississauga (Road ROW)	Yes	No
442	Maple - Manitoba	Acer negundo	4	4				6	2	5	Good	LT, TK2	2	Private	Yes	No
443	Walnut - Black	Juglans nigra	11					11	5	15	Good	CS, MB, ML, RP	3.5	Private	Yes	No
444	Spruce - Colorado	Picea pungens	30					30	8	25	Fair	CD, DW, DC, SF	5	Private	Yes	No
445	Alder - European	Alnus glutinosa	7					7	3	25	Good	LNM, DW, BR1, SB	2.5	City of Mississauga	Yes	Yes
446	Alder - European	Alnus glutinosa	8	3				9	2	30	Good	TK2, SL, DW	2.4	City of Mississauga	Yes	Yes
447	Maple - Silver	Acer saccharinum	7	5	3			9	3	10	Fair	TK3, RH, FS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
448	Alder - European	Alnus glutinosa	11	9				14	4	10	Good	TK2, SL, SF, RT	3	City of Mississauga	Yes	Yes
449	Maple - Manitoba	Acer negundo	9					9	2	20	Good	SL, LS, DW	2.4	City of Mississauga	Yes	Yes
450	Maple - Manitoba	Acer negundo	13	10	9	9		21	7	10	Good	TK4, MB, ML, RP, RT	4.5	City of Mississauga	Yes	Yes
451	Maple - Manitoba	Acer negundo	15	10				18	6	25	Fair	MB, RP, DW	4	City of Mississauga	Yes	Yes
452	Maple - Manitoba	Acer negundo	9	7				11	5	20	Good	MB, RT, RP, DW, CT, SB	3.5	City of Mississauga	Yes	Yes
453	Maple - Silver	Acer saccharinum	14	13	12			23	5	5	Good	TK3, SB, FS, SN, CT, ML, RP	3.6	City of Mississauga	Yes	Yes
454	Alder - European	Alnus glutinosa	9					9	2	15	Good	SL, SF, DE (canker)	2.4	City of Mississauga	Yes	Yes
455	Alder - European	Alnus glutinosa	7					7	1	25	Good	DE, SL, LS, DW	2.4	City of Mississauga	Yes	Yes
456	Maple - Manitoba	Acer negundo	9	7				11	4	15	Fair	TK2, SL, CT, DW, RT	3	City of Mississauga	Yes	Yes
457	Maple - Manitoba	Acer negundo	8	8	7	6		15	7	15	Good	TK4, UC, RT, RP, TD, MB	4.5	City of Mississauga	Yes	Yes
458	Maple - Silver	Acer saccharinum	17					17	4	10	Good	FK@2M, SL, RP	3	City of Mississauga	Yes	Yes
459	Alder - European	Alnus glutinosa	10	9	5			14	5	15	Good	TK3, DW, DE, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
460	Maple - Manitoba	Acer negundo	24					24	6	10	Good	LN (L), FK@3M, DW, RP	4	City of Mississauga	Yes	Yes
461	Maple - Manitoba	Acer negundo	5	5	7	5	4	12	8	20	Good	RT, TK8, LS, MB, CT	5	City of Mississauga	Yes	Yes
462	Alder - European	Alnus glutinosa	12					12	2	20	Good	DE, DW	2.4	City of Mississauga	Yes	Yes
463	Maple - Manitoba	Acer negundo	24					24	6	15	Good	LN (L), CT, TT, DW, 1SD, RP	4	City of Mississauga	Yes	Yes
464	Maple - Manitoba	Acer negundo	21					21	6	10	Good	LN (L), FK@4M, DW, FS, RP	4	City of Mississauga	Yes	Yes
465	Alder - European	Alnus glutinosa	10					10	3	30	Good	DW, SL	2.5	City of Mississauga	Yes	Yes
466	Maple - Manitoba	Acer negundo	4	4				6	2	20	Good	LS, RT, TK2, CT	2.4	City of Mississauga	Yes	Yes
467	Maple - Silver	Acer saccharinum	9					9	3	15	Fair	LN (L), CT, 1SD, LD	2.5	City of Mississauga	Yes	Yes
468	Alder - European	Alnus glutinosa	12					12	2	60	Fair	DE (canker), DW, CD, SL	2.4	City of Mississauga	Yes	Yes
469	Alder - European	Alnus glutinosa	8	5				9	3	30	Fair	TK2, DE, LN (L), 1SD, RP	2.5	City of Mississauga	Yes	Yes
470	Alder - European	Alnus glutinosa	7					7	2	30	Fair	SL, SF, DE	2.4	City of Mississauga	Yes	Yes
471	Maple - Freeman	Acer x freemanii	19					19	5	10	Good	SB, FK2@2M, RP, MB	3.5	City of Mississauga	Yes	Yes
472	Alder - European	Alnus glutinosa	11					11	3	15	Good	SF, SL, DE	2.5	City of Mississauga	Yes	Yes
473	Maple - Manitoba	Acer negundo	5					5	2	10	Good	LS, CT, SL	2.4	City of Mississauga	Yes	Yes
474	Maple - Freeman	Acer x freemanii	17					17	4	10	Good	TK2, RH, FS, BR1, SL, RP	3	City of Mississauga	Yes	Yes
475	Alder - European	Alnus glutinosa	5	4	4			8	2	40	Good	TK3, RT, DW	2.4	City of Mississauga	Yes	Yes
476	Alder - European	Alnus glutinosa	9	7				11	3	15	Good	TK2, SF, SL, DE, RT	2.5	City of Mississauga	Yes	Yes
477	Alder - European	Alnus glutinosa	8					8	3	30	Fair	DW, DE, SL	2.5	City of Mississauga	Yes	Yes
478	Alder - European	Alnus glutinosa	6	6	5	5		11	5	25	Good	DE, DW, TD, RT, WNC	3.5	City of Mississauga	Yes	Yes
479	Maple - Freeman	Acer x freemanii	16					16	4	5	Good	FK@2M, FK@5M, 1SD, SL, RP	3	City of Mississauga	Yes	Yes
480	Maple - Manitoba	Acer negundo	5	4	3	3		8	4	20	Good	TK4, RT, LS, DW	3	City of Mississauga	Yes	Yes
481	Maple - Manitoba	Acer negundo	25	21				33	11	10	Good	TK2, IB, DW, ER, FK@4M, 1SD, DC, RP	6.5	City of Mississauga	Yes	Yes
482	Alder - European	Alnus glutinosa	13	7	6	3		16	5	30	Good	DE, TK4, RT, DW	3.5	City of Mississauga	Yes	Yes
483	Maple - Manitoba	Acer negundo	3	3	5			7	3	20	Good	TK3, RT, LS, CT	2.5	City of Mississauga	Yes	Yes
484	Alder - European	Alnus glutinosa	7					7	2	10	Fair	SL, 1SD, DE	2.4	City of Mississauga	Yes	Yes
485	Alder - European	Alnus glutinosa	7	7	3	4		11	5	20	Good	TK4, RT, DE, DW, SL	3.5	City of Mississauga	Yes	Yes
486	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
487	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
488	Maple - Freeman	Acer x freemanii	17					17	5	10	Good	SB, FK2@2M, RP	3.5	City of Mississauga	Yes	Yes
489	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes
490	Alder - European	Alnus glutinosa	10					10	3	10	Good	SL, SF, DE	2.5	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
421	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	189.34	No
422	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	232.05	No
423	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	333.86	No
424	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
425	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	269.57	No
426	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
427	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	189.34	No
428	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	269.57	No
429	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	208.92	No
430	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
431	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	189.34	No
432	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	244.31	No
433	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	208.92	No
434	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	269.57	No
435	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	208.92	No
436	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	208.92	No
437	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	223.65	No
438	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	232.05	No
439	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	269.57	No
440	Maple - Norway	Acer platanoides	Protect	Alternative 5 Study Area	NA	NA	2197.89	No
441	Spruce - Colorado	Picea pungens	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	470.55	No
442	Maple - Manitoba	Acer negundo	Protect	Outside Alternative 5 Study Area	NA	NA	136.34	No
443	Walnut - Black	Juglans nigra	Retain	Outside Alternative 5 Study Area	NA	NA	589.23	No
444	Spruce - Colorado	Picea pungens	Retain	Outside Alternative 5 Study Area	NA	NA	1981.14	No
445	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	290.32	No
446	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	337.26	No
447	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	327.87	No
448	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	505.95	No
449	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	190.87	No
450	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	627.11	No
451	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	376.13	No
452	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	239.34	No
453	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	1280.22	No
454	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	337.26	No
455	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	290.32	No
456	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	185.49	No
457	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	365.37	No
458	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	821.03	No
459	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	505.95	No
460	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	790.70	No
461	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	267.21	No
462	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	429.68	No
463	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	790.70	No
464	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	627.11	No
465	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	365.13	No
466	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	136.34	No
467	Maple - Silver	Acer saccharinum	Retain	Outside Alternative 5 Study Area	NA	NA	327.87	No
468	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	333.00	No
469	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	261.38	No
470	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	225.00	No
471	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	1058.97	No
472	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	395.94	No
473	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	123.01	No
474	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	909.73	No
475	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	312.33	No
476	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	395.94	No
477	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	242.05	No
478	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	395.94	No
479	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	841.33	No
480	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	170.27	No
481	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1412.33	No
482	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	593.97	No
483	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	152.10	No
484	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	225.00	No
485	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	395.94	No
486	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	909.73	No
487	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	365.13	No
488	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	909.73	No
489	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	365.13	No
490	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	365.13	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
491	Alder - European	Alnus glutinosa	7	6	5	5	3	12	6	20	Good	TK7, RT, BSD, DE, DW	4	City of Mississauga	Yes	Yes
492	Maple - Freeman	Acer x freemanii	6	2				6	3	25	Fair	TK2, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
493	Alder - European	Alnus glutinosa	6	4	6			9	5	5	Good	TK3, RT, DE, DW	3.5	City of Mississauga	Yes	Yes
494	Maple - Freeman	Acer x freemanii	8					8	2	5	Fair	SL, SF, ML, RP	2.4	City of Mississauga	Yes	Yes
495	Maple - Manitoba	Acer negundo	9					9	5	10	Fair	BOB, CT, SB, ST, FK@4M, 1SD, RP	3.5	City of Mississauga	Yes	Yes
496	Maple - Manitoba	Acer negundo	21	17				27	9	25	Good	TK2, IB, PF, WNC, PP, SC, MB, RP	5.5	City of Mississauga	Yes	Yes
497	Ash - Green	Fraxinus pennsylvanica	5	4				6	0	100	Dead	TK2, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
498	Ash - Green	Fraxinus pennsylvanica	14					14	4	50	Poor	EAB, AD, SF, CD, RM	3	City of Mississauga	Yes	Yes
499	Apple sp.	Malus sp.	12	9				15	3	25	Fair	TK2, BOB, SC, DW, MB, FS, RP	2.5	City of Mississauga	Yes	Yes
500	Maple - Manitoba	Acer negundo	3					3	2	35	Fair	BOB, LN (M), LS, CT	2.4	City of Mississauga	Yes	Yes
501	Maple - Manitoba	Acer negundo	15					15	5	20	Fair	FS, SB, LNM, UC	3.5	City of Mississauga	Yes	Yes
502	Ash - White	Fraxinus americana	14	12	12			22	5	100	Dead	PB, FS, DW, BSD	0	City of Mississauga	Yes	Yes
503	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
504	Ash - White	Fraxinus americana	14	13				19	6	100	Dead	PB, DW, VC, ER	0	City of Mississauga	Yes	Yes
505	Hawthorn sp.	Crataegus sp.	7					7	3	30	Fair	DW, LS, 1SD, RP	2.5	City of Mississauga	Yes	Yes
506	Hawthorn sp.	Crataegus sp.	16	8	7	6	6	21	6	20	Fair	TK5, FS, FK@2M, RP, RT	4	City of Mississauga	Yes	Yes
507	Apple sp.	Malus sp.	22	16	16			32	5	40	Fair	TK3, LNM, 1SD, UC, ER, DW	4.8	City of Mississauga	Yes	Yes
508	Maple - Manitoba	Acer negundo	30					30	8	15	Fair	LN (H), MOB, FS, ST, RP	5	City of Mississauga	Yes	Yes
509	Ash - White	Fraxinus americana	26					26	5	100	Dead	ER, BSD, CT, DW, PB	0	City of Mississauga	Yes	Yes
510	Apple sp.	Malus sp.	14					14	5	25	Fair	BOB, LN (M), SB, CT, SC, DW, RP	3.5	City of Mississauga	Yes	Yes
511	Ash - Green	Fraxinus pennsylvanica	23					23	0	100	Dead	EAB, DW, RM	0	City of Mississauga	Yes	Yes
512	Hawthorn sp.	Crataegus sp.	15	11	10	7	7	23	4	25	Fair	TK5, FS, CT, DW, RP, RT	3.6	City of Mississauga	Yes	Yes
513	Hawthorn sp.	Crataegus sp.	18	7	8	13	6	25	7	30	Fair	CT, TK4, UC, MB, DW, LS	4.5	City of Mississauga	Yes	Yes
514	Ash - White	Fraxinus americana	14	8				16	6	80	Poor	CD, PB, DW, LNM, TK2, LS	4	City of Mississauga	Yes	Yes
515	Serviceberry sp.	Amelanchier sp.	11	9	5	4		16	4	10	Good	TK4, FS, 1SD, UC, LS, RP	3	City of Mississauga	Yes	Yes
516	Ash - Black	Fraxinus nigra	13					13	0	100	Dead	BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
517	Ash - Green	Fraxinus pennsylvanica	20					20	8	75	Poor	BSD, TD, PB, DW, ER	5	City of Mississauga	Yes	Yes
518	Maple - Manitoba	Acer negundo	6	5				8	3	15	Fair	TK2, BOB, SL, RT	2.5	City of Mississauga	Yes	Yes
519	Ash - Black	Fraxinus nigra	6					6	1	100	Dead	SB, DW, PB, ER	0	City of Mississauga	Yes	Yes
520	Hawthorn sp.	Crataegus sp.	13	12	9	8	6	22	5	20	Fair	TK5, FS, CT, LS, RP	3.6	City of Mississauga	Yes	Yes
521	Hawthorn sp.	Crataegus sp.	5	3				6	1	15	Fair	TK2, LS, RP	2.4	City of Mississauga	Yes	Yes
522	Cherry - Sweet	Prunus avium	6					6	3	25	Fair	LN (L), 1SD, CT, LS	2.5	City of Mississauga	Yes	Yes
523	Hawthorn sp.	Crataegus sp.	22	21	21	14	6	40	9	35	Fair	TK8, MB, FS, IB, RP, DW, ER	5.5	City of Mississauga	Yes	Yes
524	Maple - Norway	Acer platanoides	9					9	4	15	Fair	SL, FS, RT, LS, UC	3	City of Mississauga	Yes	Yes
525	Maple - Norway	Acer platanoides	14	13	12	9	7	25	6	5	Good	TK5, MOB, FS, 1SD, RP	4	City of Mississauga	Yes	Yes
526	Maple - Norway	Acer platanoides	12	9	8	7	4	19	5	15	Good	TK5, BOB, ER, FS, SL, RP, RT	3.5	City of Mississauga	Yes	Yes
527	Hawthorn sp.	Crataegus sp.	16	7				17	5	40	Fair	TK2, DW, ER, FK2@2M, PB, RP	3.5	City of Mississauga	Yes	Yes
528	Maple - Norway	Acer platanoides	11					11	4	10	Good	TOB, 1SD, FK@3M, UC, RP	3	City of Mississauga	Yes	Yes
529	Maple - Norway	Acer platanoides	14					14	5	30	Fair	DW, ER, FS, SL,	3.5	City of Mississauga	Yes	Yes
530	Maple - Norway	Acer platanoides	11	11	9	8	6	21	7	10	Good	TK6, BOB, FS, DW, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
531	Maple - Norway	Acer platanoides	22					22	6	10	Good	LN (L), 1SD, FK@3M, SN2	4	City of Mississauga	Yes	Yes
532	Maple - Manitoba	Acer negundo	26					26	0	100	Dead	LN (H), CT, PB, DW, RM	0	City of Mississauga	Yes	Yes
533	Hawthorn sp.	Crataegus sp.	8	7				11	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
534	Hawthorn sp.	Crataegus sp.	17	13	10			24	5	15	Good	TK3, PP, ST, SC, RP	3.6	City of Mississauga	Yes	Yes
535	Hawthorn sp.	Crataegus sp.	19	17	16	16	9	35	7	10	Good	TK5, FS, ML, ST, RP	4.8	City of Mississauga	Yes	Yes
536	Hawthorn sp.	Crataegus sp.	14	13	11	10	9	26	4	35	Fair	TK6, CT, 1SD, UC, LS, RP	3.6	City of Mississauga (Park)	Yes	Yes
537	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, ML, RP	2.4	City of Mississauga	Yes	Yes
538	Maple - Manitoba	Acer negundo	33					33	11	10	Good	SB, TW, WNC, LN (L), FK@3M, DC, RP	6.5	City of Mississauga (Park)	Yes	Yes
539	Maple - Norway	Acer platanoides	5					5	2	15	Fair	SP, ML, RP	2.4	City of Mississauga (Park)	Yes	Yes
540	Hawthorn sp.	Crataegus sp.	10					10	2	40	Poor	MB, LS, CD	2.4	City of Mississauga	Yes	Yes
541	Apple sp.	Malus sp.	34	31	31	28	14	64	8	20	Fair	TK7, FS, SB, ST, SC, PF, DW, RP	8.4	City of Mississauga	Yes	Yes
542	Hawthorn sp.	Crataegus sp.	19	12				22	5	15	Good	TK2, FS, SN, 1SD, RP	3.6	City of Mississauga	Yes	Yes
543	Ash - White	Fraxinus americana	44	35				56	0	100	Dead	TK2, SB, PF, BC, DW, RM	0	City of Mississauga	Yes	Yes
544	Hawthorn sp.	Crataegus sp.	13	12	10	8		22	0	100	Dead	TK4, PF, BC, RM	0	City of Mississauga	Yes	Yes
545	Maple - Manitoba	Acer negundo	3					3	1	15	Fair	LN(M), LS, 1SD, SP	2.4	City of Mississauga	Yes	Yes
546	Apple sp.	Malus sp.	29	18				34	4	50	Poor	TK2, FS, ST, SC, 1SD, PF, CT, VC, RP	4.8	City of Mississauga	Yes	Yes
547	Maple - Manitoba	Acer negundo	27	24				36	6	10	Good	TK2, BOB, LN (L), PF, FS, RP	4.8	City of Mississauga	Yes	Yes
548	Maple - Manitoba	Acer negundo	24	23				33	8	30	Fair	TK2, LN (M), BSD, WNC, VC, 1SD, CT, UC, RP	5	City of Mississauga	Yes	Yes
549	Maple - Manitoba	Acer negundo	31	16				35	11	30	Fair	LN (H), PF, LG, FK@2M, SB, CT, VC, FS, SC, RP	6.5	City of Mississauga	Yes	Yes
550	Hawthorn sp.	Crataegus sp.	20	15	14			29	5	25	Fair	TK2, MOB, FS, CT, DW, 1SD, RP	3.6	City of Mississauga	Yes	Yes
551	Hawthorn sp.	Crataegus sp.	12	7				14	5	10	Fair	TK2, LN (L), LS, FK@2M	3.5	City of Mississauga	Yes	Yes
552	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN (L), EAB, PB, DW, SB, BOB, RM	0	City of Mississauga	Yes	Yes
553	Hawthorn sp.	Crataegus sp.	8	6	4	4		11	4	30	Fair	TK4, LN (L), BOB, ST, RT	3	City of Mississauga	Yes	Yes
554	Ash - Green	Fraxinus pennsylvanica	20					20	0	100	Dead	LN(L), EAB, SB, DW, RM	0	City of Mississauga	Yes	Yes
555	Maple - Manitoba	Acer negundo	7	6	4	4		11	5	15	Fair	TK4, BOB, LS, SL, RT	3.5	City of Mississauga	Yes	Yes
556	Ash - Green	Fraxinus pennsylvanica	30					30	0	100	Dead	RPM, LG, EAB, DW, RM	0	City of Mississauga	Yes	Yes
557	Hawthorn sp.	Crataegus sp.	20	19				28	4	35	Fair	TK2, MOB, PF, DW, SL, RP	3.6	City of Mississauga	Yes	Yes
558	Hawthorn sp.	Crataegus sp.	18	8	7			21	4	20	Fair	TK3, DW, CT, RP	3.6	City of Mississauga	Yes	Yes
559	Maple - Norway	Acer platanoides	6					6	3	10	Fair	FS, SP, LS	2.5	City of Mississauga	Yes	Yes
560	Maple - Norway	Acer platanoides	5	3				6	2	10	Fair	TK2, TOB, SL, LS	2.4	City of Mississauga	Yes	Yes

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
491	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	429.68	No
492	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	298.62	No
493	Alder - European	Alnus glutinosa	Retain	Outside Alternative 5 Study Area	NA	NA	337.26	No
494	Maple - Freeman	Acer x freemanii	Retain	Outside Alternative 5 Study Area	NA	NA	343.60	No
495	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	147.93	No
496	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	976.10	No
497	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	32.88	No
498	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	266.89	No
499	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	492.27	No
500	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	80.31	No
501	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	283.16	No
502	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	164.52	No
503	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	131.55	No
504	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	129.22	No
505	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	237.30	No
506	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	837.94	No
507	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1617.81	No
508	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	917.07	No
509	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	219.62	No
510	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	451.42	No
511	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	166.51	No
512	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	972.78	No
513	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1119.87	No
514	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	346.79	No
515	Serviceberry sp.	Amelanchier sp.	Retain	Outside Alternative 5 Study Area	NA	NA	790.51	No
516	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	56.89	No
517	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	460.42	No
518	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	131.96	No
519	Ash - Black	Fraxinus nigra	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	26.68	No
520	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	903.82	No
521	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	217.38	No
522	Cherry - Sweet	Prunus avium	Retain	Outside Alternative 5 Study Area	NA	NA	213.99	No
523	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2613.81	No
524	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	391.32	No
525	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1684.55	No
526	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1112.08	No
527	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	605.04	No
528	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	591.66	No
529	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	584.58	No
530	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1285.56	No
531	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1378.80	No
532	Maple - Manitoba	Acer negundo	Remove - Poor, Hazard, or Dead Tree	Outside Preliminary Tree Inventory Study Area	NA	NA	113.98	No
533	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	56.07	No
534	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1348.12	No
535	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2631.25	No
536	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1198.02	No
537	Maple - Norway	Acer platanoides	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	270.32	No
538	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1412.33	No
539	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	297.21	No
540	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	178.07	No
541	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	5945.27	No
542	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1166.23	No
543	Ash - White	Fraxinus americana	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	925.63	No
544	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	145.78	No
545	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	80.31	No
546	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	1018.25	No
547	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1663.17	No
548	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	1094.56	No
549	Maple - Manitoba	Acer negundo	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	1222.28	No
550	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1450.84	No
551	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	462.54	No
552	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	131.55	No
553	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	347.62	No
554	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	131.55	No
555	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	185.49	No
556	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	267.07	No
557	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1363.50	No
558	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	837.94	No
559	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	315.69	No
560	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	315.69	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
561	Hawthorn sp.	Crataegus sp.	21	16	13	11	6	32	6	20	Fair	TK5, FS, CT, 1SD, LN (L), RP, RT	4.8	City of Mississauga	Yes	Yes
562	Maple - Norway	Acer platanoides	28					28	7	5	Good	DC, SF, SN	4.5	City of Mississauga	Yes	Yes
563	Hawthorn sp.	Crataegus sp.	17	12	9			23	6	15	Fair	TK3, CT, SN, DW, RP	4	City of Mississauga	Yes	Yes
564	Apple sp.	Malus sp.	28	13				31	6	30	Fair	TK2, PF, DW, LN (M), RP	4.8	City of Mississauga	Yes	Yes
565	Maple - Norway	Acer platanoides	5					5	1	10	Fair	MOB, SP, LS	2.4	City of Mississauga	Yes	Yes
566	Hawthorn sp.	Crataegus sp.	19	17	16			30	5	25	Fair	TK3, TW, WNC, DE, FS, CT, RP	3.6	City of Mississauga	Yes	Yes
567	Maple - Manitoba	Acer negundo	4					4	1	15	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
568	Maple - Norway	Acer platanoides	7					7	3	10	Fair	CT, SL, LS	2.5	City of Mississauga	Yes	Yes
569	Hawthorn sp.	Crataegus sp.	20	8				22	2	30	Poor	TK2, CT, LN (H), ST, SC	3.6	City of Mississauga	Yes	Yes
570	Maple - Manitoba	Acer negundo	9					9	2	10	Fair	ER, SL, SF	2.4	City of Mississauga	Yes	Yes
571	Hawthorn sp.	Crataegus sp.	20	19	19	18	13	40	9	35	Fair	TK7, FK@2M, TOB, DW, FS, CD, RP	5.5	City of Mississauga	Yes	Yes
572	Hawthorn sp.	Crataegus sp.	24	20	19	19	14	44	7	20	Fair	TK5, MOB, LN (L), 1SD, RP	6	City of Mississauga	Yes	Yes
573	Maple - Norway	Acer platanoides	7	3				8	4	10	Fair	TK2, MOB, SL, LS, RT	3	City of Mississauga	Yes	Yes
574	Maple - Norway	Acer platanoides	8	5				9	3	10	Fair	TK2, SL, SN, RT	2.5	City of Mississauga	Yes	Yes
575	Maple - Norway	Acer platanoides	5	5	4			8	3	10	Fair	TK3, TOB, SL, RT	2.5	City of Mississauga	Yes	Yes
576	Hawthorn sp.	Crataegus sp.	16	14				21	9	10	Good	TK2, GTF, FS, SC, RP	5.5	City of Mississauga (Park)	Yes	Yes
577	Hawthorn sp.	Crataegus sp.	16	15	10	8		25	8	15	Good	TK4, TOB, FS, RP	5	City of Mississauga (Park)	Yes	Yes
578	Maple - Norway	Acer platanoides	3					3	1	10	Fair	SP, SL	2.4	City of Mississauga	Yes	Yes
579	Hawthorn sp.	Crataegus sp.	21	13	10	10	8	30	10	35	Fair	TK, MOB, VC, FS, CD, DW, RP	6	City of Mississauga	Yes	Yes
580	Hawthorn sp.	Crataegus sp.	13	12	11	10		23	5	30	Fair	TK4, LN (H), DW, FS, RP	3.6	City of Mississauga	Yes	Yes
581	Maple - Manitoba	Acer negundo	5	5	5	5	4	11	5	10	Fair	TK6, SP, SL, RT	3.5	City of Mississauga	Yes	Yes
582	Maple - Manitoba	Acer negundo	8	6	5	4		12	5	10	Fair	TK4, LN (L), BOB, RT	3.5	City of Mississauga	Yes	Yes
583	Ash - Green	Fraxinus pennsylvanica	12					12	0	100	Dead	RPM, BOB, EAB, DW, RM	0	City of Mississauga	Yes	Yes
584	Maple - Norway	Acer platanoides	4					4	1	10	Good	SP, SL	2.4	City of Mississauga	Yes	Yes
585	Hawthorn sp.	Crataegus sp.	22	17				28	7	10	Fair	TK2, LN (L), FK@3M, FS, 1SD, RP	4.5	City of Mississauga	Yes	Yes
586	Ash - Green	Fraxinus pennsylvanica	3					3	1	10	Fair	SP, BOB	2.4	City of Mississauga	Yes	Yes
587	Maple - Manitoba	Acer negundo	3	3				4	2	5	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
588	Ash - Green	Fraxinus pennsylvanica	14	10				17	0	100	Dead	TK2, LN (H), RPM, EAB, DW, RM	0	City of Mississauga	Yes	Yes
589	Maple - Manitoba	Acer negundo	4					4	2	10	Fair	SL, SML, RP	2.4	City of Mississauga	Yes	Yes
590	Hawthorn sp.	Crataegus sp.	22					22	6	15	Good	FK@3M, LN (L), CT, SC, RP	4	City of Mississauga	Yes	Yes
591	Maple - Manitoba	Acer negundo	3					3	1	10	Fair	SP	2.4	City of Mississauga	Yes	Yes
592	Maple - Norway	Acer platanoides	3	3				4	2	0	Fair	TK2, SP, SL, RT	2.4	City of Mississauga	Yes	Yes
593	Hawthorn sp.	Crataegus sp.	27	25	23	21	20	52	10	30	Fair	TK6, TT, CT, DW, SC, FS, RP	7.2	City of Mississauga	Yes	Yes
594	Hawthorn sp.	Crataegus sp.	31	28				42	10	15	Good	TK2, TOB, CV, CT, SN, DW, RP	6	City of Mississauga (Park)	Yes	Yes
595	Maple - Norway	Acer platanoides	3	3	3	3		6	4	10	Fair	TK4, SP, SL, RT	3	City of Mississauga	Yes	Yes
596	Maple - Norway	Acer platanoides	4					4	2	10	Fair	TOB, SL, SP, LS	2.4	City of Mississauga	Yes	Yes
597	Hawthorn sp.	Crataegus sp.	38	32	24	23	23	64	14	15	Fair	TK6, LN (H), PF, LG, FK@3M, CT, TT, CV, GTF, ETB, SC, SN, DW, RP	8.4	City of Mississauga	Yes	Yes
598	Maple - Norway	Acer platanoides	21	14				25	7	15	Good	TK2, ER, MOB, FK@3M, 1SD, UC, RP	4.5	City of Mississauga	Yes	Yes
599	Maple - Norway	Acer platanoides	9					9	5	10	Fair	LN (L), LS, 1SD, ML, RP	3.5	City of Mississauga	Yes	Yes
600	Hawthorn sp.	Crataegus sp.	10					10	3	15	Fair	LN (M), CT, SL	2.5	City of Mississauga	Yes	Yes
601	Apple sp.	Malus sp.	28	27				39	7	25	Fair	TK2, FS, SB, ST, SC, LN (M), 1SD, PF, RP	4.8	City of Mississauga	Yes	Yes
602	Hawthorn sp.	Crataegus sp.	12	11	9			19	3	50	Poor	TK3, LN (L), DW, RP	2.5	City of Mississauga	Yes	Yes
603	Maple - Norway	Acer platanoides	4					4	2	10	Fair	CT, SP, LS	2.4	City of Mississauga	Yes	Yes
604	Hawthorn sp.	Crataegus sp.	11	6				13	0	100	Dead	TK2, DW, RM	0	City of Mississauga	Yes	Yes
605	Hawthorn sp.	Crataegus sp.	17	16	9			25	5	15	Good	TK3, BOB, TT, DW, RP	3.6	City of Mississauga	Yes	Yes
606	Hawthorn sp.	Crataegus sp.	15	9				17	4	10	Fair	TK2, VC, LN (M), SC, RP	3	City of Mississauga	Yes	Yes
607	Hawthorn sp.	Crataegus sp.	10					10	1	70	Poor	CT, BOB, DW, RM	2.4	City of Mississauga	Yes	Yes
608	Hawthorn sp.	Crataegus sp.	22	16	15			31	11	15	Good	TK3, FS, RH, FK@2M, LN (L), DW,,RP	6.5	City of Mississauga	Yes	Yes
609	Apple sp.	Malus sp.	10					10	0	100	Dead	BOB, DW, RM	0	City of Mississauga	Yes	Yes
610	Apple sp.	Malus sp.	17	13	10	8	6	26	0	100	Dead	TK8, DW, BOB, RM	0	City of Mississauga	Yes	Yes
611	Maple - Norway	Acer platanoides	5					5	2	15	Fair	BOB, CT, ML, LS	2.4	City of Mississauga	Yes	Yes
612	Maple - Norway	Acer platanoides	3					3	2	10	Fair	SP, BOB, LS	2.4	City of Mississauga	Yes	Yes
613	Maple - Norway	Acer platanoides	3	2				4	1	0	Fair	TK2, CT, LS, RP	2.4	City of Mississauga	Yes	Yes
614	Ash - Green	Fraxinus pennsylvanica	14					14	0	100	Dead	RPM, LN (M), EAB, DW, RM	0	City of Mississauga	Yes	Yes
615	Ash - Green	Fraxinus pennsylvanica	3					3	1	15	Fair	BOB, SP, SL	2.4	City of Mississauga	Yes	Yes
616	Hawthorn sp.	Crataegus sp.	21	20	20	9	8	37	9	20	Fair	TK7, BOB, GTF, ER, SN, RP	5.5	City of Mississauga	Yes	Yes
617	Hawthorn sp.	Crataegus sp.	16	14	14	12	9	30	5	45	Poor	TK5, BOB, GTF, PB, DW, PF, RP	3.6	City of Mississauga	Yes	Yes
618	Apple sp.	Malus sp.	51					51	6	20	Fair	TOB, GTF, PP, PC, SC, RP	7.2	City of Mississauga	Yes	Yes
619	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
620	Cherry - Sweet	Prunus avium	54					54	10	15	Good	FK@2M, RH, FK@3M, CT, PP, 1SD	6	Private	Yes	No
621	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
622	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
623	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
624	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
625	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
626	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
627	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
628	Cedar - Eastern-White	Thuja occidentalis	10	7	8	14	7	21	5	30	Fair	LS, GTF, PP, SL, CT	3.6	City of Mississauga	Yes	Yes
629	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
630	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
561	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1731.24	No
562	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	2029.33	No
563	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	972.78	No
564	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1529.06	No
565	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	297.21	No
566	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1541.24	No
567	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	86.88	No
568	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	337.54	No
569	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	510.22	No
570	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	147.93	No
571	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2613.81	No
572	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	3128.65	No
573	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	362.75	No
574	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	391.32	No
575	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	362.75	No
576	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1081.21	No
577	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1445.00	No
578	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	270.32	No
579	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1541.24	No
580	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	972.78	No
581	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	185.49	No
582	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	207.09	No
583	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	62.16	No
584	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	363.98	No
585	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1363.50	No
586	Ash - Green	Fraxinus pennsylvanica	Retain	Outside Alternative 5 Study Area	NA	NA	158.51	No
587	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	86.88	No
588	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	101.46	No
589	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	86.88	No
590	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1166.23	No
591	Maple - Manitoba	Acer negundo	Retain	Outside Alternative 5 Study Area	NA	NA	80.31	No
592	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	282.08	No
593	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	4305.41	No
594	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	3696.90	No
595	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	315.69	No
596	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	282.08	No
597	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	6438.30	No
598	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	1684.55	No
599	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	391.32	No
600	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	315.44	No
601	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2317.92	No
602	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	403.83	No
603	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	282.08	No
604	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	67.93	No
605	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	1445.00	No
606	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	605.04	No
607	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	178.07	No
608	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2109.30	No
609	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	51.00	No
610	Apple sp.	Malus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	181.87	No
611	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	297.21	No
612	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	270.32	No
613	Maple - Norway	Acer platanoides	Retain	Outside Alternative 5 Study Area	NA	NA	282.08	No
614	Ash - Green	Fraxinus pennsylvanica	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	76.25	No
615	Ash - Green	Fraxinus pennsylvanica	Retain	Outside Alternative 5 Study Area	NA	NA	158.51	No
616	Hawthorn sp.	Crataegus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	2259.86	No
617	Hawthorn sp.	Crataegus sp.	Remove - Poor, Hazard, or Dead Tree	Outside Alternative 5 Study Area	NA	NA	870.05	No
618	Apple sp.	Malus sp.	Retain	Outside Alternative 5 Study Area	NA	NA	3839.29	No
619	Cherry - Sweet	Prunus avium	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	5694.63	No
620	Cherry - Sweet	Prunus avium	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	5694.63	No
621	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
622	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
623	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
624	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
625	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
626	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
627	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
628	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	929.57	No
629	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
630	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No

Tree Number	Common Name	Scientific Name	First DBH (cm)	Second DBH (cm)	Third DBH (cm)	Fourth DBH (cm)	Fifth DBH (cm)	DBH For Analysis (cm)	Crown Reserve (m)	Crown Dieback (%)	Overall Condition	Observations/Comments	Minimum Tree Protection Zone (m)	Ownership	Within TRCA Regulated Area (Y/N)	Within City Open Space or Woodland (Yes/No)
631	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
632	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
633	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
634	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
635	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
636	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
637	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
638	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
639	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, SF, Hedge	1.5	Private	Yes	No
640	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	2.4	City of Mississauga (Park)	Yes	Yes
641	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
642	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
643	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
644	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
645	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
646	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
647	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
648	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No
649	Cedar - Eastern-White	Thuja occidentalis	4					4	1	0	Fair	DC, Hedge	1.5	Private	Yes	No

Tree Number	Common Name	Scientific Name	Recommended Action - Alternative 5	Location Category - Alternative 5	Mississauga Compensation - Alternative 5	TRCA Compensation - Alternative 5	Tree Valuation (Trunk Formula) - $	Alternative 5 - Tree Value Needed (Y/N)
631	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
632	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
633	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
634	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
635	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
636	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
637	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
638	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
639	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
640	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
641	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
642	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
643	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
644	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
645	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
646	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
647	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Alternative 5 Study Area	NA	NA	173.33	No
648	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No
649	Cedar - Eastern-White	Thuja occidentalis	Retain	Outside Preliminary Tree Inventory Study Area	NA	NA	173.33	No

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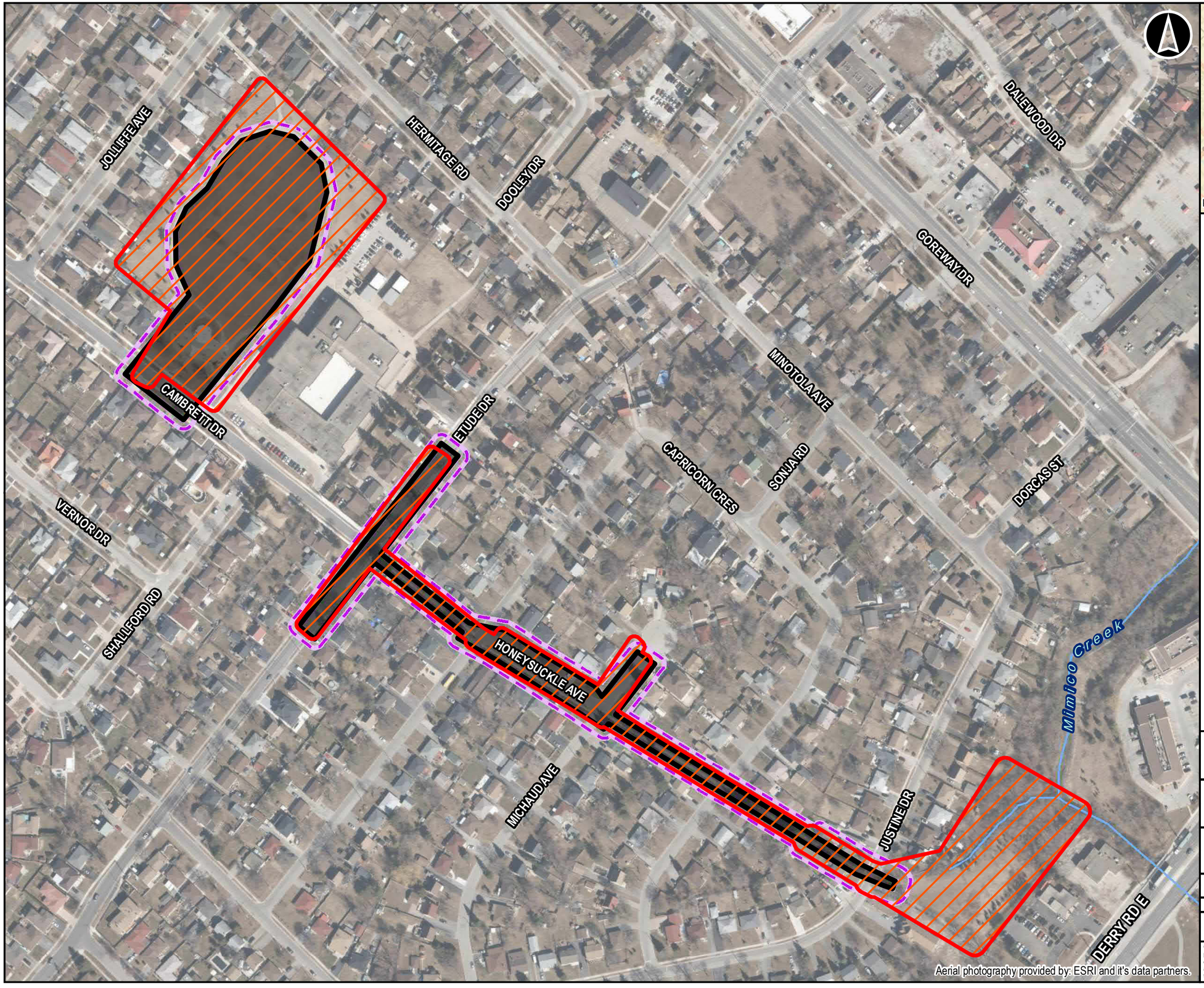
Appendix F2-F9

Alternative 5 Tree Inventory and Preservation Plan



Legend

- Preliminary Tree Inventory Study Area
- Alternative 5 Impact Area
- Alternative 5 Study Area
- Watercourse

Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 20 40 80 120 160
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:2,500 * when printed 11"x17"	Data Sources: MECP, MMAH
P#:60620089	Rev:00	

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Appendix F2

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Map location: E:\PR\60620026 Malton Flood\Design\01_Reports\ArboristReport_2021\01\MXD_60620089_TreeProtectionPlan_HighLevel_Alt5_R00.mxd
Date Saved: 1/15/2021 3:09:39 AM User Name: oriarx

Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

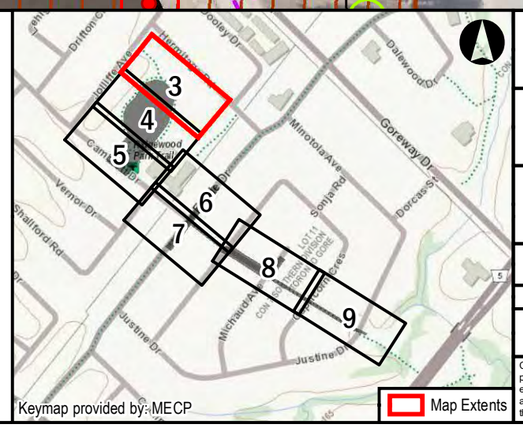
Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix F3

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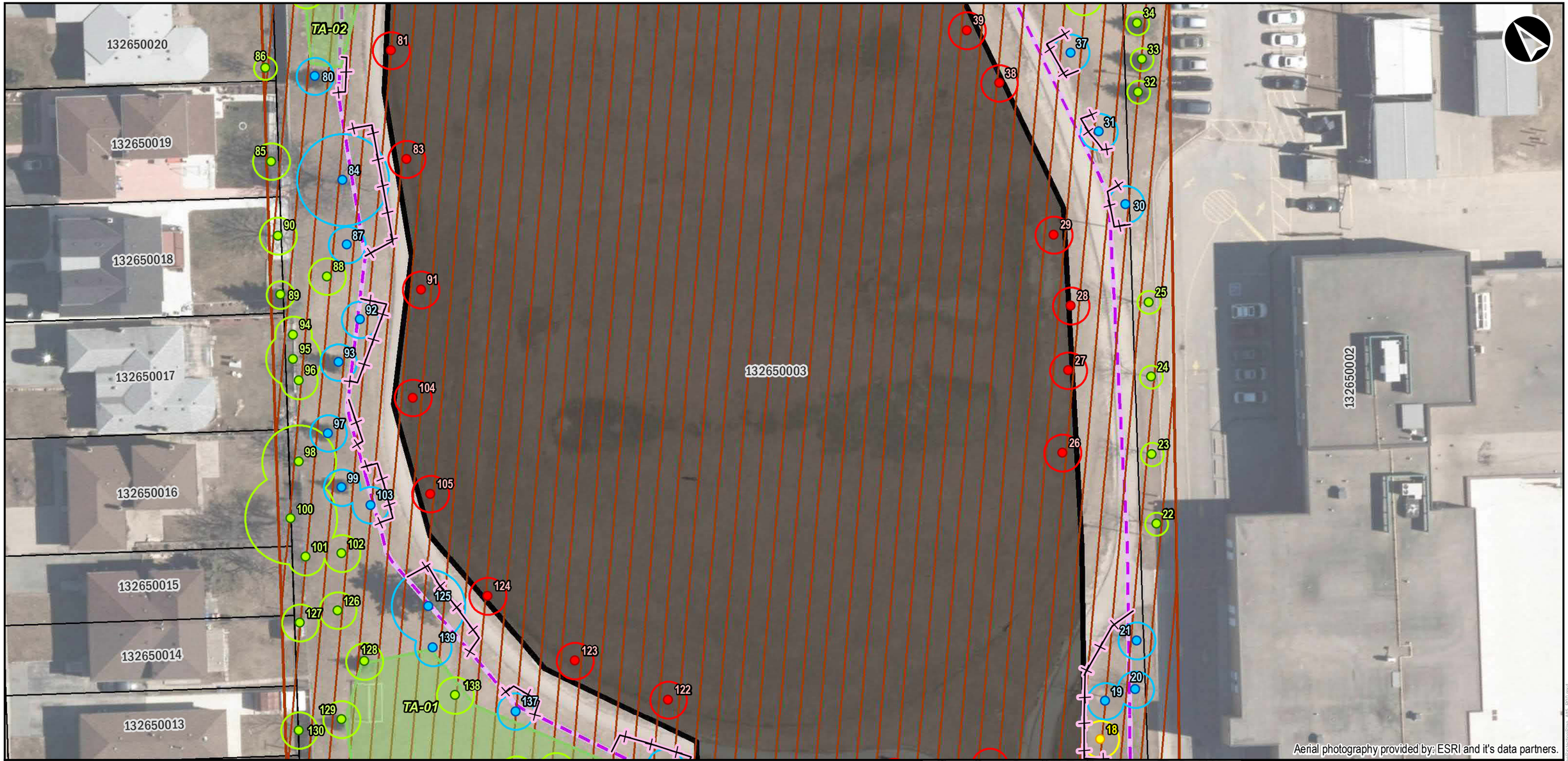
Date Saved: 1/15/2021 2:38:34 AM User Name: cnaves



Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

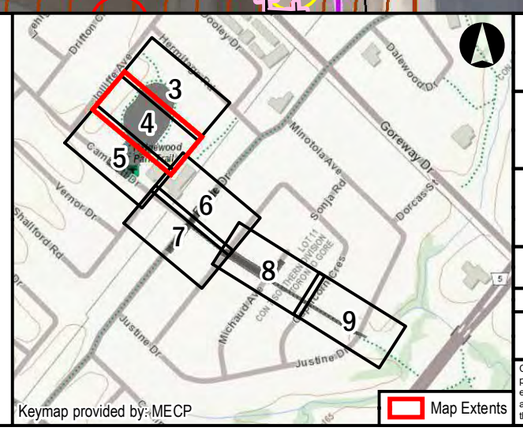
Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Appendix F4

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Date Saved: 1/15/2021 2:58:34 AM User Name: cnavs

Aerial photography provided by: ESRI and it's data partners.

Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

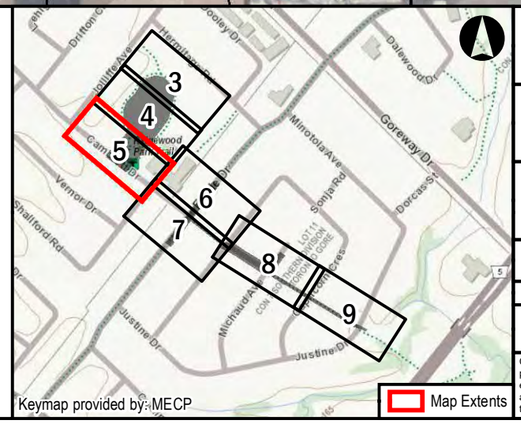
Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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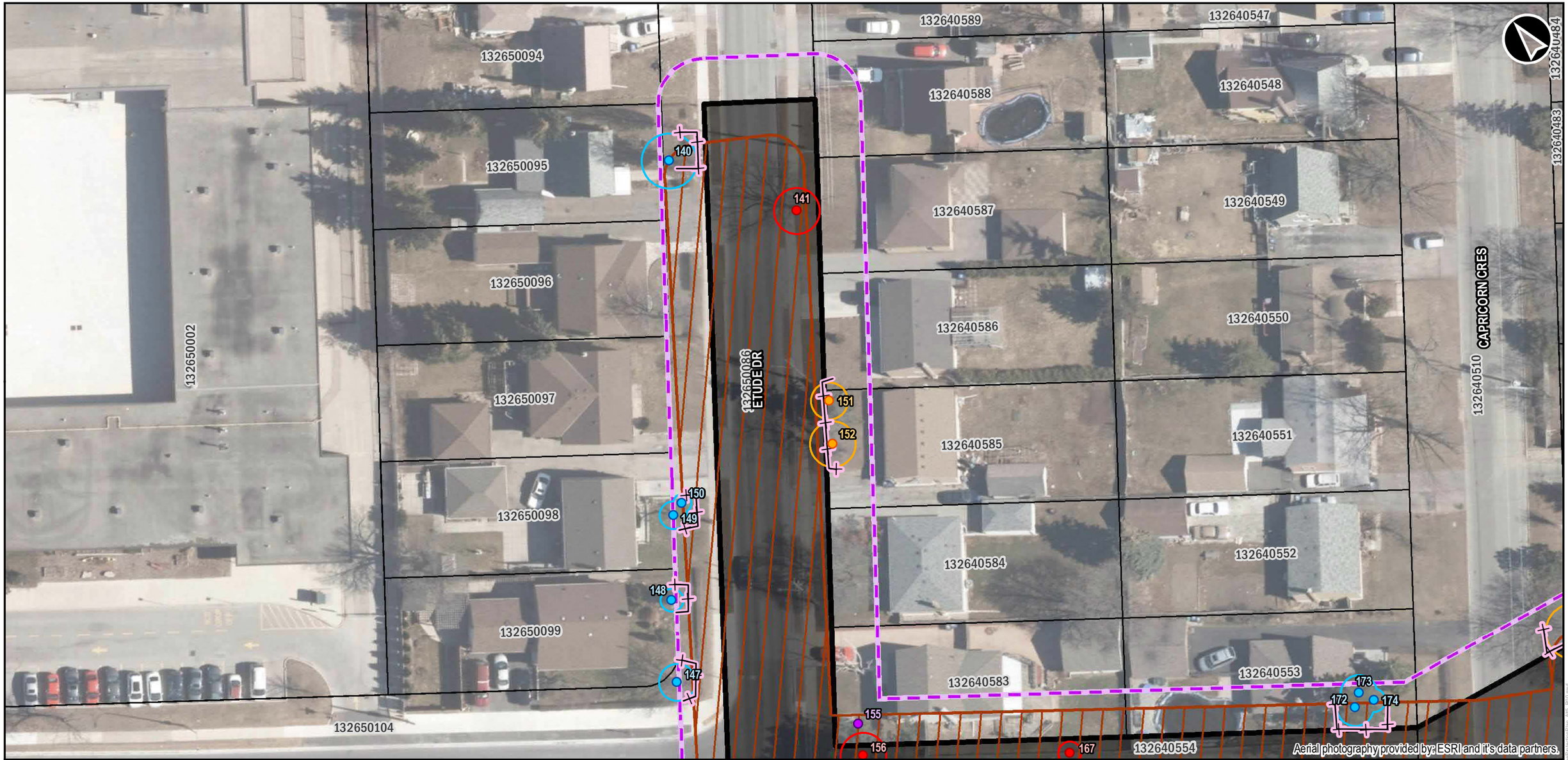
Date Saved: 1/15/2021 2:58:34 AM User Name: crivera



Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

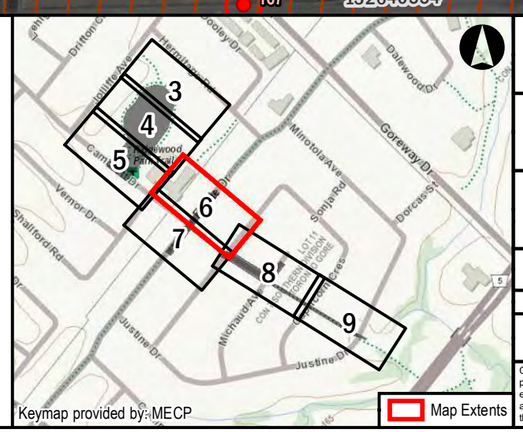
Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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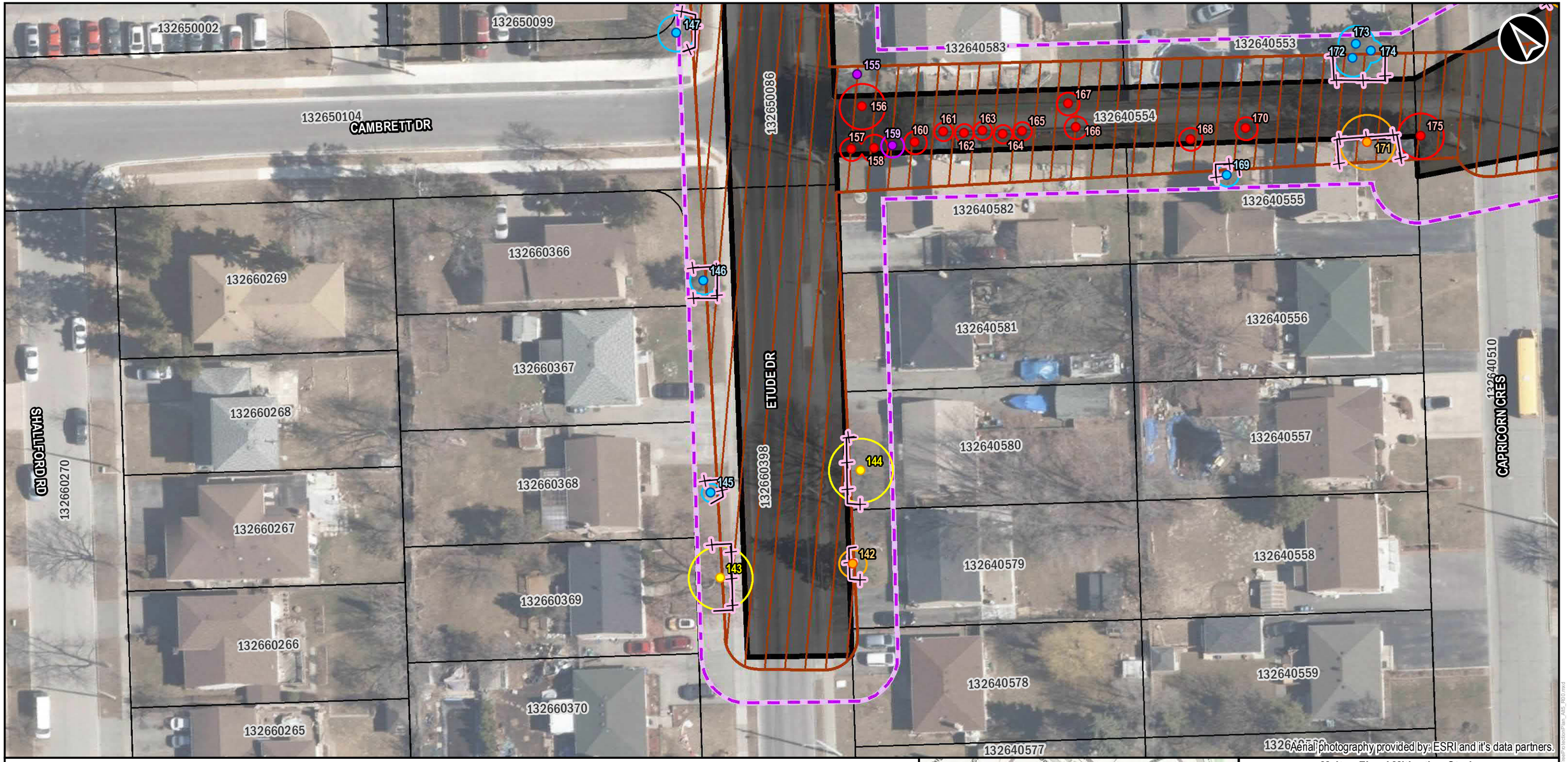
Date Saved: 1/15/2021 2:58:34 AM User Name: cnavs



Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

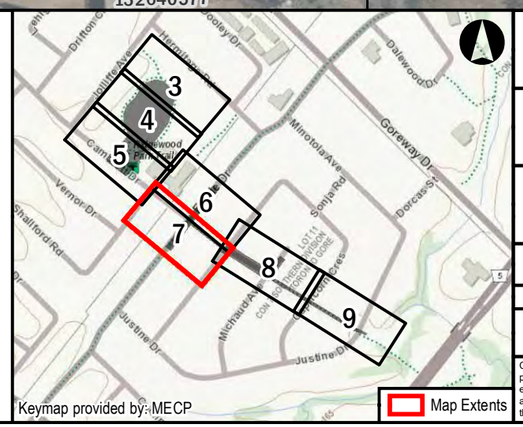
Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
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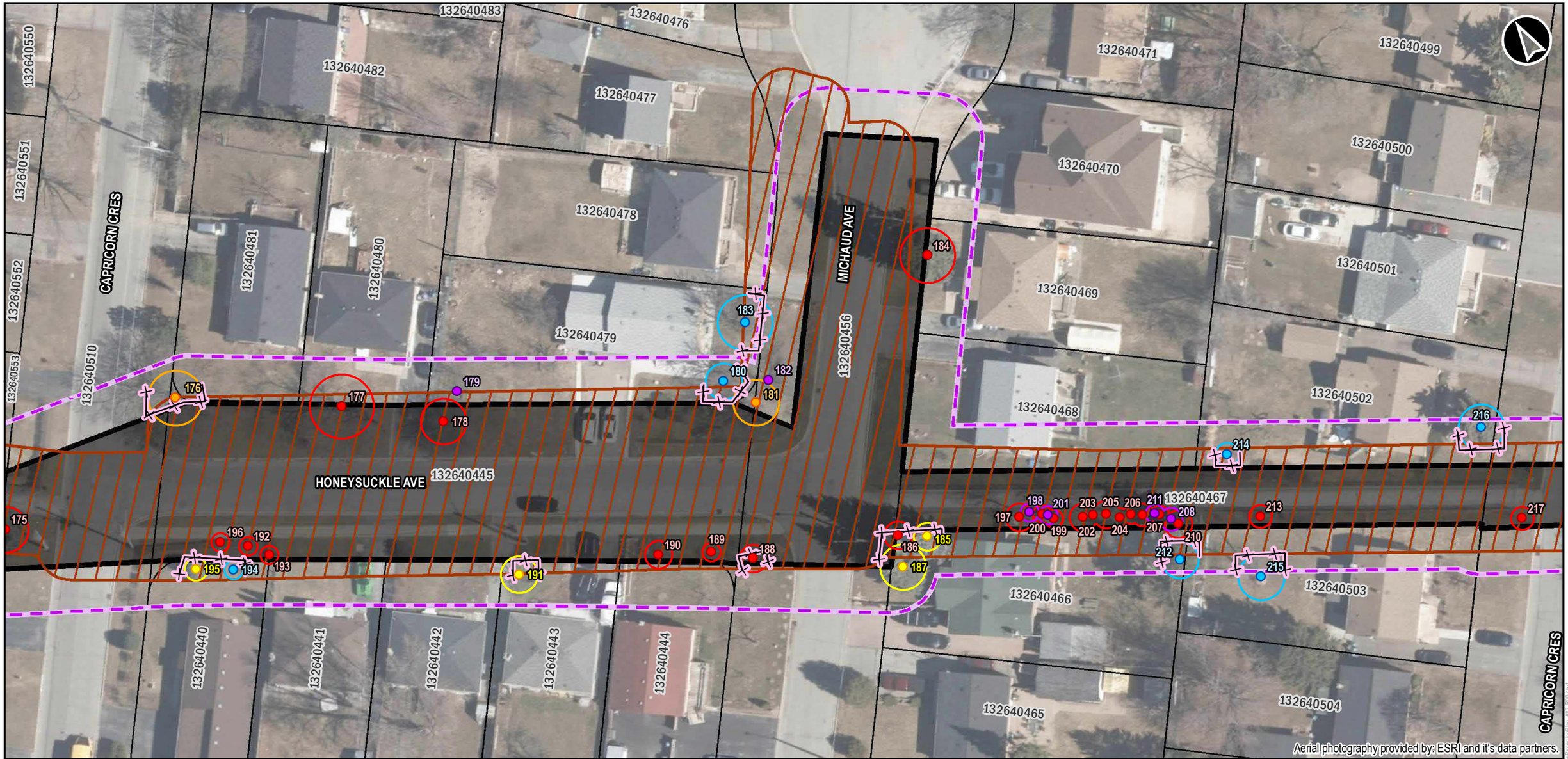
File Location: E:\Projects\60620089_Malton Flood Design\01_Drawings\Report_Drawings\Tree Protection Plan\Appendix_F7_TPP_Etude_Justine.mxd
Date Saved: 1/15/2021 2:58:34 AM User Name: cnaws



Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

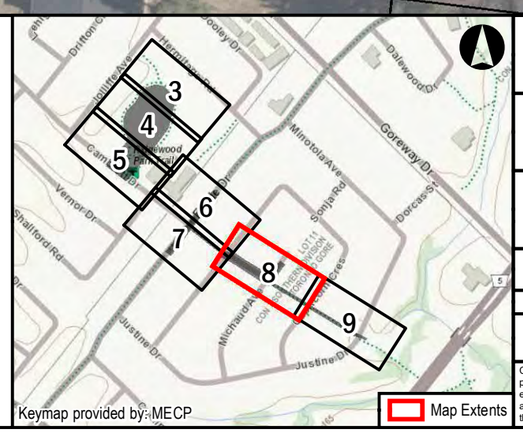
Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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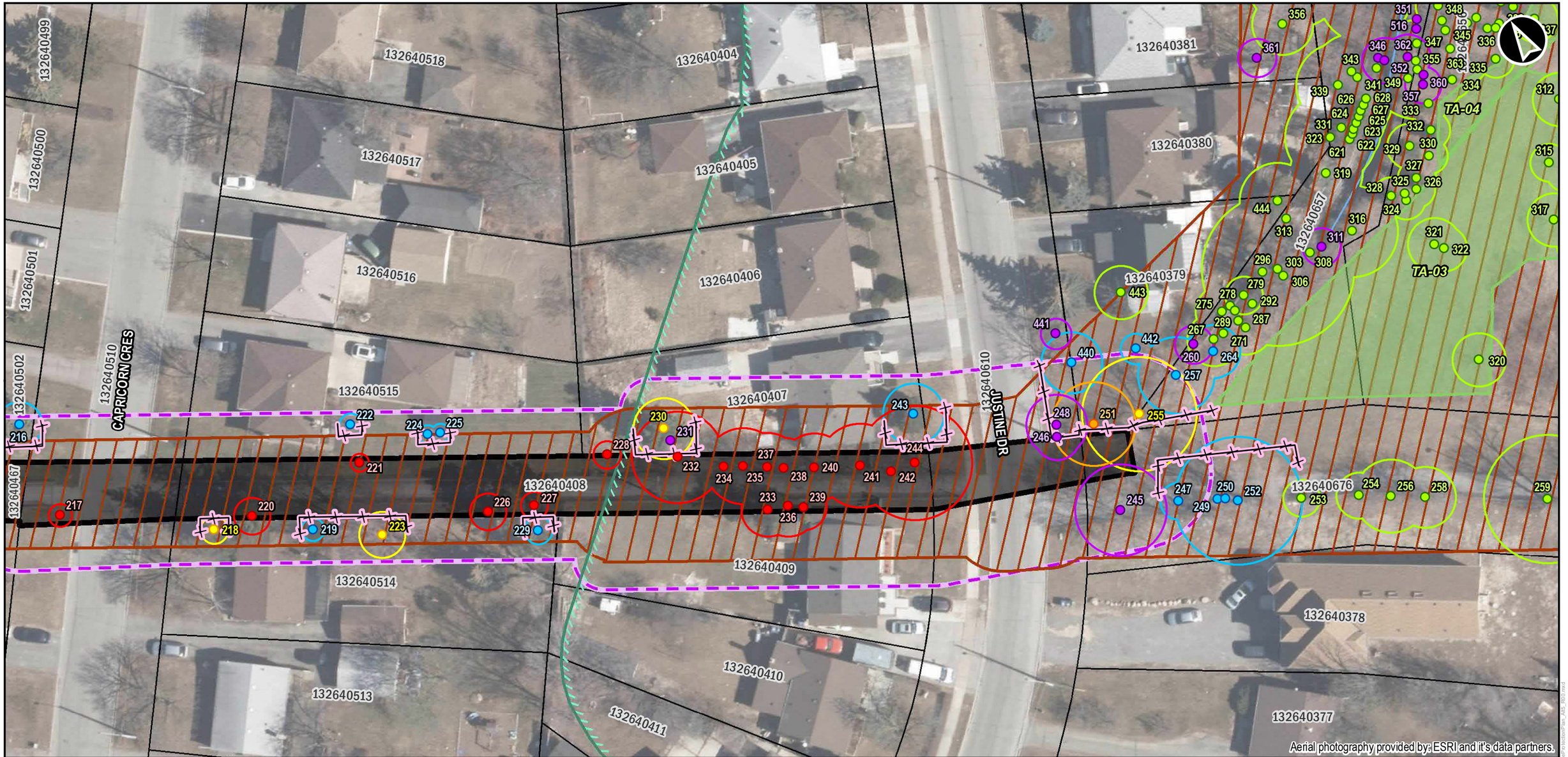
Date Saved: 1/15/2021 2:58:34 AM User Name: crawis
File Name: I:\PROJ\60620089_MaltonFloodMitigation\3_Design\Arcmap\Report_Figures\Appendix_F\Appendix_F8_TPP.mxd



Legend

- Alternative 5 Study Area
- Alternative 5 Impact Area
- Preliminary Tree Inventory Study Area

Recommended Action - Alternative 5

- Retain
- Protect
- Protect - Minor Injury
- Protect - Injury
- Remove
- Remove - Poor, Hazard, or Dead Tree

Recommended Action - Alternative 5

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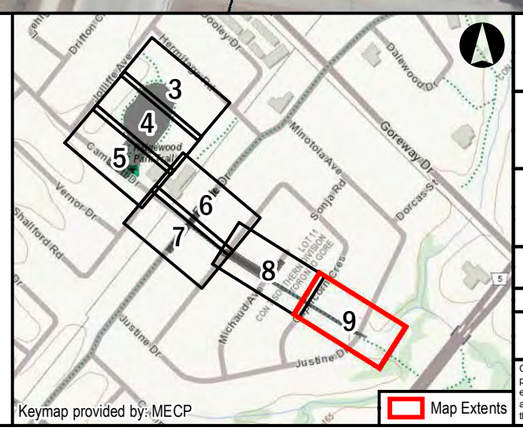
- Remove
- Remove - Poor, Hazard, or Dead Tree

- Tree Protection Fencing
- Tree Sapling/Sumac Area

General Features

- Property Boundary
- TRCA Regulated Area
- Watercourse



Malton Flood Mitigation Study
Etude Drive to Justine Drive
Alternative 5

Tree Protection and Preservation Plan

0 5 10 20 30
Meters
DATUM: NAD 1983 UTM Zone 17N

Jan, 2021	1:500	**Data Sources:** MECP, City of Mississauga (2021), TRCA (2021)
P#:60620089	Rev:00	

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Map Location: L:\P\60620089\3 Data\Flood Design\01_Projects\Malton\MXD\Report_Figs\TRMXD_Etude2Justine_Alt5_F09.mxd
Date Saved: 1/15/2021 2:58:34 AM User Name: crawrs

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Appendix G

Tree Valuation Table

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
1	Honey-Locust	Good	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$990.00	$5,717.07	66.00%	$3,773.27	80.00%	$3,018.61	78.00%	$2,354.52
2	Maple - Norway	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$960.00	$1,639.68	68.00%	$1,114.98	80.00%	$891.98	78.00%	$695.75
3	Maple - Norway	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$960.00	$2,084.28	68.00%	$1,417.31	80.00%	$1,133.85	78.00%	$884.40
4	Maple - Norway	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	80.00%	$1,322.89	78.00%	$1,031.85
5	Honey-Locust	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$990.00	$2,282.92	66.00%	$1,506.73	80.00%	$1,205.38	78.00%	$940.20
6	Maple - Silver	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$900.00	$3,910.00	60.00%	$2,346.00	80.00%	$1,876.80	78.00%	$1,463.90
7	Honey-Locust	Good	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$990.00	$2,850.17	66.00%	$1,881.11	80.00%	$1,504.89	78.00%	$1,173.81
8	Honey-Locust	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$990.00	$1,955.86	66.00%	$1,290.87	80.00%	$1,032.69	78.00%	$805.50
9	Maple - Silver	Good	62	31	**3017.54**	6	3	**28.26**	**2989.28**	**19460.2128**	$900.00	$20,360.21	60.00%	$12,216.13	80.00%	$9,772.90	78.00%	$7,622.86
10	Honey-Locust	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$990.00	$1,955.86	66.00%	$1,290.87	80.00%	$1,032.69	78.00%	$805.50
11	Apple sp.	Fair	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$820.00	$3,830.00	57.00%	$2,183.10	62.00%	$1,353.52	78.00%	$1,055.75
12	Maple - Norway	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$960.00	$1,287.06	68.00%	$875.20	80.00%	$700.16	78.00%	$546.13
13	Maple - Norway	Fair	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$960.00	$1,287.06	68.00%	$875.20	62.00%	$542.63	78.00%	$423.25
14	Maple - Norway	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$960.00	$1,777.66	68.00%	$1,208.81	80.00%	$967.04	78.00%	$754.29
15	Oak - Red	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$990.00	$1,669.68	81.00%	$1,352.44	80.00%	$1,081.95	78.00%	$843.92
16	Serviceberry sp.	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$660.00	$660.00	71.00%	$468.60	62.00%	$290.53	78.00%	$226.61
17	Zelkova - Japanese	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$925.00	$822.79	70.00%	$575.96	62.00%	$357.09	78.00%	$278.53
18	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
19	Oak - English	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$975.00	$1,526.92	80.00%	$1,221.53	80.00%	$977.23	78.00%	$762.24
20	Maple - Norway	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$960.00	$2,252.92	68.00%	$1,531.98	80.00%	$1,225.59	78.00%	$955.96
21	Maple - Norway	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$960.00	$1,925.86	68.00%	$1,309.58	80.00%	$1,047.67	78.00%	$817.18
22	Honey-Locust	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$990.00	$2,461.78	66.00%	$1,624.78	80.00%	$1,299.82	78.00%	$1,013.86
23	Honey-Locust	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$990.00	$2,282.92	66.00%	$1,506.73	80.00%	$1,205.38	78.00%	$940.20
24	Honey-Locust	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$990.00	$2,282.92	66.00%	$1,506.73	80.00%	$1,205.38	78.00%	$940.20
25	Honey-Locust	Good	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$990.00	$2,850.17	66.00%	$1,881.11	80.00%	$1,504.89	78.00%	$1,173.81
26	Linden - Little-Leaf	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$850.00	$712.02	72.00%	$512.65	62.00%	$317.85	78.00%	$247.92
27	Linden - Little-Leaf	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$850.00	$712.02	72.00%	$512.65	62.00%	$317.85	78.00%	$247.92
28	Linden - Little-Leaf	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$850.00	$712.02	72.00%	$512.65	62.00%	$317.85	78.00%	$247.92
29	Gingko	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$980.00	$842.02	65.00%	$547.31	62.00%	$339.33	78.00%	$264.68
30	Yellow-Wood	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$800.00	$743.79	67.00%	$498.34	62.00%	$308.97	78.00%	$241.00
31	Yellow-Wood	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$800.00	$800.00	67.00%	$536.00	62.00%	$332.32	78.00%	$259.21
32	Spruce - Colorado	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$975.00	$1,940.86		$0.00	80.00%	$0.00	78.00%	$0.00
33	Spruce - Colorado	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$975.00	$1,940.86		$0.00	80.00%	$0.00	78.00%	$0.00
34	Spruce - Colorado	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$975.00	$1,792.66		$0.00	80.00%	$0.00	78.00%	$0.00
35	Honey-Locust	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$990.00	$2,461.78	66.00%	$1,624.78	80.00%	$1,299.82	78.00%	$1,013.86
36	Yellow-Wood	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$800.00	$697.79	67.00%	$467.52	62.00%	$289.86	78.00%	$226.09
37	Yellow-Wood	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$800.00	$800.00	67.00%	$536.00	62.00%	$332.32	78.00%	$259.21
38	Gingko	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$980.00	$842.02	65.00%	$547.31	62.00%	$339.33	78.00%	$264.68
39	Gingko	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$980.00	$842.02	65.00%	$547.31	62.00%	$339.33	78.00%	$264.68
40	Gingko	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$980.00	$842.02	65.00%	$547.31	62.00%	$339.33	78.00%	$264.68
41	Yellow-Wood	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$800.00	$662.02	67.00%	$443.55	62.00%	$275.00	78.00%	$214.50
42	Yellow-Wood	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$800.00	$800.00	67.00%	$536.00	62.00%	$332.32	78.00%	$259.21
43	Honey-Locust	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$990.00	$1,424.38	66.00%	$940.09	80.00%	$752.07	78.00%	$586.62
44	Spruce - Colorado	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$975.00	$1,526.92		$0.00	80.00%	$0.00	78.00%	$0.00
45	Spruce - Colorado	Fair	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$975.00	$1,302.06		$0.00	62.00%	$0.00	78.00%	$0.00
46	Honey-Locust	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$990.00	$2,650.86	66.00%	$1,749.57	80.00%	$1,399.66	78.00%	$1,091.73
47	Maple - Norway	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	68.00%	$614.57	62.00%	$381.04	78.00%	$297.21
48	Elm - Siberian	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$875.00	$2,944.69	39.00%	$1,148.43	80.00%	$918.74	78.00%	$716.62
49	Maple - Manitoba	Fair	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$575.00	$1,699.28	38.00%	$645.73	62.00%	$400.35	78.00%	$312.27
50	Maple - Manitoba	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$575.00	$2,864.44	38.00%	$1,088.49	80.00%	$870.79	78.00%	$679.22
51	Sweetgum	Poor	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$990.00	$990.00	60.00%	$594.00	35.00%	$207.90	78.00%	$162.16
52	Sweetgum	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$990.00	$933.79	60.00%	$560.27	62.00%	$347.37	78.00%	$270.95
53	Sweetgum	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$990.00	$887.79	60.00%	$532.68	62.00%	$330.26	78.00%	$257.60
54	Yellow-Wood	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$800.00	$697.79	67.00%	$467.52	62.00%	$289.86	78.00%	$226.09
55	Sweetgum	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$990.00	$933.79	60.00%	$560.27	62.00%	$347.37	78.00%	$270.95
56	Spruce - Colorado	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$975.00	$1,409.38		$0.00	80.00%	$0.00	78.00%	$0.00
57	Sweetgum	Dead	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$990.00	$887.79	60.00%	$532.68	10.00%	$53.27	78.00%	$41.55
58	Spruce - Colorado	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$975.00	$1,204.97		$0.00	80.00%	$0.00	78.00%	$0.00
59	Spruce - Colorado	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$975.00	$1,118.09		$0.00	62.00%	$0.00	78.00%	$0.00
60	Sweetgum	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$990.00	$933.79	60.00%	$560.27	62.00%	$347.37	78.00%	$270.95
61	Sweetgum	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$990.00	$933.79	60.00%	$560.27	62.00%	$347.37	78.00%	$270.95
62	Spruce - Colorado	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$975.00	$1,118.09		$0.00	62.00%	$0.00	78.00%	$0.00
63	Maple - Manitoba	Fair	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$575.00	$4,116.47	38.00%	$1,564.26	62.00%	$969.84	78.00%	$756.48
64	Apple sp.	Fair	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$820.00	$1,499.68	57.00%	$854.82	62.00%	$529.99	78.00%	$413.39
65	Honey-Locust	Good	51	25.5	**2041.79**	6	3	**28.26**	**2013.525**	**13108.04775**	$990.00	$14,098.05	66.00%	$9,304.71	80.00%	$7,443.77	78.00%	$5,806.14

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
66	Oak - Red	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$990.00	$1,133.09	81.00%	$917.80	62.00%	$569.04	78.00%	$443.85
67	Oak - Red	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$990.00	$1,056.43	81.00%	$855.71	62.00%	$530.54	78.00%	$413.82
68	Spruce - Colorado	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$975.00	$1,204.97	76.00%	$915.77	62.00%	$567.78	78.00%	$442.87
69	Kentucky Coffeetree	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
70	Kentucky Coffeetree	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
71	Oak - Red	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$990.00	$852.02	81.00%	$690.14	62.00%	$427.88	78.00%	$333.75
72	Oak - Red	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$990.00	$887.79	81.00%	$719.11	62.00%	$445.85	78.00%	$347.76
73	Oak - Red	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$990.00	$852.02	81.00%	$690.14	62.00%	$427.88	78.00%	$333.75
74	Spruce - Colorado	Poor	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$975.00	$918.79	76.00%	$698.28	35.00%	$244.40	78.00%	$190.63
75	Maple - Freeman	Poor	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$950.00	$893.79	65.00%	$580.96	35.00%	$203.34	78.00%	$158.60
76	Spruce - Colorado	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$975.00	$918.79	76.00%	$698.28	62.00%	$432.93	78.00%	$337.69
77	Maple - Freeman	Good	43	21.5	**1451.47**	6	3	**28.26**	**1423.205**	**9265.06455**	$950.00	$10,215.06	65.00%	$6,639.79	80.00%	$5,311.83	78.00%	$4,143.23
78	Spruce - White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$940.00	$883.79	75.00%	$662.84	62.00%	$410.96	78.00%	$320.55
79	Spruce - White	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$940.00	$1,169.97	75.00%	$877.47	62.00%	$544.03	78.00%	$424.35
80	Spruce - Colorado	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$975.00	$1,302.06	76.00%	$989.57	80.00%	$791.65	78.00%	$617.49
81	Kentucky Coffeetree	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
82	Kentucky Coffeetree	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
83	Kentucky Coffeetree	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
84	Honey-Locust	Good	44	22	**1519.76**	6	3	**28.26**	**1491.5**	**9709.665**	$990.00	$10,699.67	66.00%	$7,061.78	80.00%	$5,649.42	78.00%	$4,406.55
85	Cherry - Sweet	Fair	38	19	**1133.54**	6	3	**28.26**	**1105.28**	**7195.3728**	$750.00	$7,945.37	59.00%	$4,687.77	62.00%	$2,906.42	78.00%	$2,267.01
86	Apple sp.	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$820.00	$1,371.92	57.00%	$781.99	80.00%	$625.59	78.00%	$487.96
87	Oak - Swamp White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
88	Oak - Swamp White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$960.00	$960.00	75.00%	$720.00	62.00%	$446.40	78.00%	$348.19
89	Spruce - Colorado	Good	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$975.00	$4,797.54	76.00%	$3,646.13	80.00%	$2,916.91	78.00%	$2,275.19
90	Horsechestnut - European	Good	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$950.00	$5,999.03	64.00%	$3,839.38	80.00%	$3,071.50	78.00%	$2,395.77
91	Kentucky Coffeetree	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	62.00%	$420.26	78.00%	$327.80
92	Oak - Swamp White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	75.00%	$643.34	62.00%	$398.87	78.00%	$311.12
93	Spruce - Colorado	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$975.00	$1,526.92	76.00%	$1,160.46	80.00%	$928.37	78.00%	$724.13
94	Maple - Norway	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$960.00	$1,026.43	68.00%	$697.98	62.00%	$432.74	78.00%	$337.54
95	Maple - Manitoba	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$575.00	$2,864.44	38.00%	$1,088.49	80.00%	$870.79	78.00%	$679.22
96	Maple - Norway	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	62.00%	$501.69	78.00%	$391.32
97	Spruce - Colorado	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$975.00	$1,409.38	76.00%	$1,071.13	80.00%	$856.90	78.00%	$668.38
98	Mulberry - White	Fair	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$825.00	$5,874.03	64.00%	$3,759.38	62.00%	$2,330.81	78.00%	$1,818.03
99	Spruce - Colorado	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$975.00	$1,302.06	76.00%	$989.57	80.00%	$791.65	78.00%	$617.49
100	Apple sp.	Fair	44	22	**1519.76**	6	3	**28.26**	**1491.5**	**9709.665**	$820.00	$10,529.67	57.00%	$6,001.91	62.00%	$3,721.18	78.00%	$2,902.52
101	Apple sp.	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$820.00	$886.43	57.00%	$505.27	62.00%	$313.27	78.00%	$244.35
102	Sweetgum	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$990.00	$887.79	60.00%	$532.68	62.00%	$330.26	78.00%	$257.60
103	Sweetgum	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$990.00	$990.00	60.00%	$594.00	62.00%	$368.28	78.00%	$287.26
104	Kentucky Coffeetree	Good	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	75.00%	$677.84	80.00%	$542.27	78.00%	$422.97
105	Linden - Little-Leaf	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$850.00	$712.02	72.00%	$512.65	62.00%	$317.85	78.00%	$247.92
106	Honey-Locust	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$990.00	$1,955.86	66.00%	$1,290.87	80.00%	$1,032.69	78.00%	$805.50
107	Honey-Locust	Good	59	29.5	**2732.59**	6	3	**28.26**	**2704.325**	**17605.15575**	$990.00	$18,595.16	66.00%	$12,272.80	80.00%	$9,818.24	78.00%	$7,658.23
108	Spruce - Colorado	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$975.00	$1,204.97	76.00%	$915.77	80.00%	$732.62	78.00%	$571.44
109	Spruce - White	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$940.00	$1,169.97	75.00%	$877.47	80.00%	$701.98	78.00%	$547.54
110	Mulberry - White	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$825.00	$968.09	64.00%	$619.58	62.00%	$384.14	78.00%	$299.63
111	Spruce - Colorado	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$975.00	$1,302.06	76.00%	$989.57	80.00%	$791.65	78.00%	$617.49
112	Oak - Red	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$990.00	$1,056.43	81.00%	$855.71	62.00%	$530.54	78.00%	$413.82
113	Oak - Red	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$990.00	$990.00	81.00%	$801.90	62.00%	$497.18	78.00%	$387.80
114	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
115	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
116	Oak - Red	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$990.00	$1,133.09	81.00%	$917.80	62.00%	$569.04	78.00%	$443.85
117	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
118	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
119	Lilac - Ivory Silk	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$800.00	$800.00	79.00%	$632.00	62.00%	$391.84	78.00%	$305.64
120	Lilac - Ivory Silk	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$800.00	$800.00	79.00%	$632.00	62.00%	$391.84	78.00%	$305.64
121	Lilac - Ivory Silk	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$800.00	$800.00	79.00%	$632.00	62.00%	$391.84	78.00%	$305.64
122	Linden - Little-Leaf	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$850.00	$712.02	72.00%	$512.65	62.00%	$317.85	78.00%	$247.92
123	Linden - Little-Leaf	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$850.00	$712.02	72.00%	$512.65	62.00%	$317.85	78.00%	$247.92
124	Linden - Little-Leaf	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$850.00	$747.79	72.00%	$538.41	62.00%	$333.81	78.00%	$260.38
125	Pine - Austrian	Good	37	18.5	**1074.67**	6	3	**28.26**	**1046.405**	**6812.09655**	$925.00	$7,737.10	63.00%	$4,874.37	80.00%	$3,899.50	78.00%	$3,041.61
126	Sweetgum	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$990.00	$887.79	60.00%	$532.68	62.00%	$330.26	78.00%	$257.60
127	Cherry - Sweet	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$750.00	$750.00	59.00%	$442.50	62.00%	$274.35	78.00%	$213.99
128	Spruce - Colorado	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$975.00	$1,041.43	76.00%	$791.49	62.00%	$490.72	78.00%	$382.76
129	Spruce - Colorado	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$975.00	$975.00	76.00%	$741.00	62.00%	$459.42	78.00%	$358.35
130	Pear sp.	Fair	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$780.00	$1,904.28	45.00%	$856.92	62.00%	$531.29	78.00%	$414.41

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
131	Maple - Manitoba	Fair	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$575.00	$1,254.68	38.00%	$476.78	62.00%	$295.60	78.00%	$230.57
132	Linden - Little-Leaf	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$850.00	$850.00	72.00%	$612.00	62.00%	$379.44	78.00%	$295.96
133	Spruce - White	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$940.00	$1,006.43	75.00%	$754.83	62.00%	$467.99	78.00%	$365.03
134	Spruce - White	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$940.00	$1,169.97	75.00%	$877.47	62.00%	$544.03	78.00%	$424.35
135	Spruce - White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$940.00	$940.00	75.00%	$705.00	62.00%	$437.10	78.00%	$340.94
136	Cottonwood - Eastern	Fair	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$700.00	$5,115.34	67.00%	$3,427.28	62.00%	$2,124.91	78.00%	$1,657.43
137	Catalpa - Northern	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$870.00	$813.79	61.00%	$496.41	62.00%	$307.77	78.00%	$240.06
138	Catalpa - Northern	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$870.00	$767.79	61.00%	$468.35	62.00%	$290.38	78.00%	$226.50
139	Catalpa - Northern	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$870.00	$813.79	61.00%	$496.41	62.00%	$307.77	78.00%	$240.06
140	Oak - English	Good	55	27.5	**2374.63**	6	3	**28.26**	**2346.365**	**15274.83615**	$975.00	$16,249.84	80.00%	$12,999.87	80.00%	$10,399.90	78.00%	$8,111.92
141	Maple - Norway	Fair	47	23.5	**1734.07**	6	3	**28.26**	**1705.805**	**11104.79055**	$960.00	$12,064.79	68.00%	$8,204.06	62.00%	$5,086.52	78.00%	$3,967.48
142	Spruce - White	Fair	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$940.00	$5,355.34	75.00%	$4,016.51	62.00%	$2,490.23	78.00%	$1,942.38
143	Maple - Silver	Good	61	30.5	**2920.99**	6	3	**28.26**	**2892.725**	**18831.63975**	$900.00	$19,731.64	60.00%	$11,838.98	80.00%	$9,471.19	78.00%	$7,387.53
144	Maple - Norway	Good	62	31	**3017.54**	6	3	**28.26**	**2989.28**	**19460.2128**	$960.00	$20,420.21	68.00%	$13,885.74	80.00%	$11,108.60	78.00%	$8,664.70
145	Honey-Locust	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$990.00	$990.00	66.00%	$653.40	62.00%	$405.11	78.00%	$315.98
146	Pine - Scots	Fair	26	13	**530.66**	6	3	**28.26**	**502.4**	**3270.624**	$800.00	$4,070.62	53.00%	$2,157.43	62.00%	$1,337.61	78.00%	$1,043.33
147	Maple - Norway	Fair	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$960.00	$6,009.03	68.00%	$4,086.14	62.00%	$2,533.41	78.00%	$1,976.06
148	Spruce - Colorado	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$975.00	$1,792.66	76.00%	$1,362.42	80.00%	$1,089.93	78.00%	$850.15
149	Apple sp.	Fair	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$820.00	$4,361.47	57.00%	$2,486.04	62.00%	$1,541.34	78.00%	$1,202.25
150	Mulberry - White	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$825.00	$968.09	64.00%	$619.58	62.00%	$384.14	78.00%	$299.63
151	Spruce - White	Fair	35	17.5	**961.63**	6	3	**28.26**	**933.365**	**6076.20615**	$940.00	$7,016.21	75.00%	$5,262.15	62.00%	$3,262.54	78.00%	$2,544.78
152	Honey-Locust	Fair	48	24	**1808.64**	6	3	**28.26**	**1780.38**	**11590.2738**	$990.00	$12,580.27	66.00%	$8,302.98	62.00%	$5,147.85	78.00%	$4,015.32
153	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
154	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
155	Birch - White	Dead	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$750.00	$3,760.00	60.00%	$2,256.00	10.00%	$225.60	78.00%	$175.97
156	Pine - Austrian	Good	45	22.5	**1589.63**	6	3	**28.26**	**1561.365**	**10164.48615**	$925.00	$11,089.49	63.00%	$6,986.38	80.00%	$5,589.10	78.00%	$4,359.50
157	Juniper - Eastern	Fair	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$680.00	$1,359.68	62.00%	$843.00	62.00%	$522.66	78.00%	$407.67
158	Douglas-Fir	Good	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$900.00	$5,315.34	70.00%	$3,720.74	80.00%	$2,976.59	78.00%	$2,321.74
159	Juniper - Eastern	Poor	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$680.00	$1,972.92	62.00%	$1,223.21	35.00%	$428.12	78.00%	$333.94
160	Douglas-Fir	Fair	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$900.00	$2,560.86	70.00%	$1,792.60	62.00%	$1,111.41	78.00%	$866.90
161	Maple - Manitoba	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	62.00%	$151.12	78.00%	$117.88
162	Maple - Manitoba	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$575.00	$575.00	38.00%	$218.50	62.00%	$135.47	78.00%	$105.67
163	Maple - Manitoba	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$575.00	$411.47	38.00%	$156.36	62.00%	$96.94	78.00%	$75.61
164	Maple - Freeman	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$950.00	$893.79	65.00%	$580.96	62.00%	$360.20	78.00%	$280.95
165	Ash - White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$640.00	$537.79	72.00%	$387.21	62.00%	$240.07	78.00%	$187.26
166	Maple - Manitoba	Fair	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$575.00	$902.06	38.00%	$342.78	62.00%	$212.53	78.00%	$165.77
167	Maple - Manitoba	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$575.00	$1,126.92	38.00%	$428.23	62.00%	$265.50	78.00%	$207.09
168	Ash - White	Fair	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$640.00	$1,605.86	72.00%	$1,156.22	62.00%	$716.85	78.00%	$559.15
169	Cedar - Eastern-White	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$600.00	$1,565.86	72.00%	$1,127.42	80.00%	$901.93	78.00%	$703.51
170	Maple - Manitoba	Fair	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$575.00	$1,009.38	38.00%	$383.56	62.00%	$237.81	78.00%	$185.49
171	Maple - Silver	Good	53	26.5	**2205.07**	6	3	**28.26**	**2176.805**	**14171.00055**	$900.00	$15,071.00	60.00%	$9,042.60	80.00%	$7,234.08	78.00%	$5,642.58
172	Juniper - Eastern	Fair	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$680.00	$5,407.07	62.00%	$3,352.39	62.00%	$2,078.48	78.00%	$1,621.21
173	Juniper - Eastern	Fair	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$680.00	$6,061.20	62.00%	$3,757.94	62.00%	$2,329.92	78.00%	$1,817.34
174	Mountain-Ash - European	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$840.00	$1,964.28	60.00%	$1,178.57	80.00%	$942.85	78.00%	$735.43
175	Spruce - Colorado	Good	41	20.5	**1319.59**	6	3	**28.26**	**1291.325**	**8406.52575**	$975.00	$9,381.53	76.00%	$7,129.96	80.00%	$5,703.97	78.00%	$4,449.09
176	Maple - Norway	Good	58	29	**2640.74**	6	3	**28.26**	**2612.48**	**17007.2448**	$960.00	$17,967.24	68.00%	$12,217.73	80.00%	$9,774.18	78.00%	$7,623.86
177	Maple - Silver	Good	61	30.5	**2920.99**	6	3	**28.26**	**2892.725**	**18831.63975**	$900.00	$19,731.64	60.00%	$11,838.98	80.00%	$9,471.19	78.00%	$7,387.53
178	Apple sp.	Good	45	22.5	**1589.63**	6	3	**28.26**	**1561.365**	**10164.48615**	$820.00	$10,984.49	57.00%	$6,261.16	80.00%	$5,008.93	78.00%	$3,906.96
179	Apple sp.	Dead	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$820.00	$1,637.66	57.00%	$933.46	10.00%	$93.35	78.00%	$72.81
180	Cherry - Sweet	Good	36	18	**1017.36**	6	3	**28.26**	**989.1**	**6439.041**	$750.00	$7,189.04	59.00%	$4,241.53	80.00%	$3,393.23	78.00%	$2,646.72
181	Mulberry - White	Good	43	21.5	**1451.47**	6	3	**28.26**	**1423.205**	**9265.06455**	$825.00	$10,090.06	64.00%	$6,457.64	80.00%	$5,166.11	78.00%	$4,029.57
182	Apple sp.	Dead	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$820.00	$4,642.54	57.00%	$2,646.25	10.00%	$264.62	78.00%	$206.41
183	Cherry - Sweet	Fair	57	28.5	**2550.47**	6	3	**28.26**	**2522.205**	**16419.55455**	$750.00	$17,169.55	59.00%	$10,130.04	62.00%	$6,280.62	78.00%	$4,898.89
184	Spruce - Colorado	Good	55	27.5	**2374.63**	6	3	**28.26**	**2346.365**	**15274.83615**	$975.00	$16,249.84	76.00%	$12,349.88	80.00%	$9,879.90	78.00%	$7,706.32
185	Spruce - Colorado	Good	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$975.00	$4,797.54	76.00%	$3,646.13	80.00%	$2,916.91	78.00%	$2,275.19
186	Spruce - Colorado	Good	29	14.5	**660.19**	6	3	**28.26**	**631.925**	**4113.83175**	$975.00	$5,088.83	76.00%	$3,867.51	80.00%	$3,094.01	78.00%	$2,413.33
187	Spruce - Colorado	Good	41	20.5	**1319.59**	6	3	**28.26**	**1291.325**	**8406.52575**	$975.00	$9,381.53	76.00%	$7,129.96	80.00%	$5,703.97	78.00%	$4,449.09
188	Apple sp.	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$820.00	$3,830.00	57.00%	$2,183.10	80.00%	$1,746.48	78.00%	$1,362.25
189	Apple sp.	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$820.00	$1,049.97	57.00%	$598.48	62.00%	$371.06	78.00%	$289.43
190	Apple sp.	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$820.00	$2,889.69	57.00%	$1,647.12	80.00%	$1,317.70	78.00%	$1,027.81
191	Cherry - Sweet	Good	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$750.00	$5,477.07	59.00%	$3,231.47	80.00%	$2,585.18	78.00%	$2,016.44
192	Serviceberry sp.	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$660.00	$496.47	71.00%	$352.49	62.00%	$218.55	78.00%	$170.47
193	Cedar - Eastern-White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	62.00%	$242.75	78.00%	$189.34
194	Mountain-Ash - European	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$840.00	$906.43	60.00%	$543.86	62.00%	$337.19	78.00%	$263.01
195	Spruce - Colorado	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$975.00	$1,940.86	76.00%	$1,475.05	80.00%	$1,180.04	78.00%	$920.43

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
196	Serviceberry sp.	Fair	1	0.5	**0.79**	6	3	**28.26**	**-27.475**	**-178.86225**	$660.00	$481.14	71.00%	$341.61	62.00%	$211.80	78.00%	$165.20
197	Maple - Manitoba	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$575.00	$3,585.00	38.00%	$1,362.30	80.00%	$1,089.84	78.00%	$850.07
198	Maple - Norway	Poor	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	35.00%	$283.21	78.00%	$220.91
199	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
200	Maple - Norway	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$960.00	$1,026.43	68.00%	$697.98	62.00%	$432.74	78.00%	$337.54
201	Maple - Norway	Poor	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	35.00%	$283.21	78.00%	$220.91
202	Maple - Manitoba	Fair	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$575.00	$4,397.54	38.00%	$1,671.07	62.00%	$1,036.06	78.00%	$808.13
203	Maple - Norway	Fair	2	1	**3.14**	6	3	**28.26**	**-25.12**	**-163.5312**	$960.00	$796.47	68.00%	$541.60	62.00%	$335.79	78.00%	$261.92
204	Maple - Norway	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$960.00	$1,103.09	68.00%	$750.10	62.00%	$465.06	78.00%	$362.75
205	Maple - Manitoba	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$575.00	$2,864.44	38.00%	$1,088.49	80.00%	$870.79	78.00%	$679.22
206	Cherry - Sweet	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$750.00	$750.00	59.00%	$442.50	62.00%	$274.35	78.00%	$213.99
207	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
208	Maple - Manitoba	Poor	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$575.00	$1,126.92	38.00%	$428.23	35.00%	$149.88	78.00%	$116.91
209	Maple - Norway	Fair	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	62.00%	$1,025.24	78.00%	$799.69
210	Spruce - Norway	Good	29	14.5	**660.19**	6	3	**28.26**	**631.925**	**4113.83175**	$925.00	$5,038.83	71.00%	$3,577.57	80.00%	$2,862.06	78.00%	$2,232.40
211	Maple - Manitoba	Poor	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$575.00	$518.79	38.00%	$197.14	35.00%	$69.00	78.00%	$53.82
212	Spruce - Norway	Good	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$925.00	$5,652.07	71.00%	$4,012.97	80.00%	$3,210.38	78.00%	$2,504.09
213	Apple sp.	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$820.00	$1,371.92	57.00%	$781.99	62.00%	$484.84	78.00%	$378.17
214	Apple sp.	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$820.00	$1,371.92	57.00%	$781.99	62.00%	$484.84	78.00%	$378.17
215	Cherry - Sweet	Fair	48	24	**1808.64**	6	3	**28.26**	**1780.38**	**11590.2738**	$750.00	$12,340.27	59.00%	$7,280.76	62.00%	$4,514.07	78.00%	$3,520.98
216	Spruce - Colorado	Fair	47	23.5	**1734.07**	6	3	**28.26**	**1705.805**	**11104.79055**	$975.00	$12,079.79	76.00%	$9,180.64	62.00%	$5,692.00	78.00%	$4,439.76
217	Mulberry - White	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$825.00	$1,642.66	64.00%	$1,051.30	80.00%	$841.04	78.00%	$656.01
218	Spruce - White	Good	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$940.00	$4,481.47	75.00%	$3,361.10	80.00%	$2,688.88	78.00%	$2,097.33
219	Cedar - Eastern-White	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$600.00	$1,151.92	72.00%	$829.38	62.00%	$514.22	78.00%	$401.09
220	Spruce - White	Good	35	17.5	**961.63**	6	3	**28.26**	**933.365**	**6076.20615**	$940.00	$7,016.21	75.00%	$5,262.15	80.00%	$4,209.72	78.00%	$3,283.58
221	Mulberry - White	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$825.00	$1,054.97	64.00%	$675.18	62.00%	$418.61	78.00%	$326.52
222	Cherry - Sweet	Good	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$750.00	$2,610.17	59.00%	$1,540.00	80.00%	$1,232.00	78.00%	$960.96
223	Maple - Silver	Good	42	21	**1384.74**	6	3	**28.26**	**1356.48**	**8830.6848**	$900.00	$9,730.68	60.00%	$5,838.41	80.00%	$4,670.73	78.00%	$3,643.17
224	Cherry sp.	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$725.00	$725.00	52.00%	$377.00	62.00%	$233.74	78.00%	$182.32
225	Cherry sp.	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$725.00	$791.43	52.00%	$411.55	62.00%	$255.16	78.00%	$199.02
226	Pine - Austrian	Good	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$925.00	$5,974.03	63.00%	$3,763.64	80.00%	$3,010.91	78.00%	$2,348.51
227	Pine - Austrian	Good	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$925.00	$5,340.34	63.00%	$3,364.42	80.00%	$2,691.53	78.00%	$2,099.40
228	Maple - Silver	Good	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$900.00	$3,419.40	60.00%	$2,051.64	80.00%	$1,641.31	78.00%	$1,280.22
229	Pine - Austrian	Good	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$925.00	$4,466.47	63.00%	$2,813.88	80.00%	$2,251.10	78.00%	$1,755.86
230	Spruce - White	Good	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$940.00	$6,321.20	75.00%	$4,740.90	80.00%	$3,792.72	78.00%	$2,958.32
231	Spruce - White	Hazard	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$940.00	$3,009.69	75.00%	$2,257.27	10.00%	$225.73	78.00%	$176.07
232	Maple - Manitoba	Fair	35	17.5	**961.63**	6	3	**28.26**	**933.365**	**6076.20615**	$575.00	$6,651.21	38.00%	$2,527.46	62.00%	$1,567.02	78.00%	$1,222.28
233	Cedar - Eastern-White	Fair	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$600.00	$3,610.00	72.00%	$2,599.20	62.00%	$1,611.50	78.00%	$1,256.97
234	Maple - Norway	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$960.00	$1,511.92	68.00%	$1,028.10	80.00%	$822.48	78.00%	$641.54
235	Maple - Norway	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$960.00	$2,620.86	68.00%	$1,782.19	80.00%	$1,425.75	78.00%	$1,112.08
236	Cedar - Eastern-White	Fair	38	19	**1133.54**	6	3	**28.26**	**1105.28**	**7195.3728**	$600.00	$7,795.37	72.00%	$5,612.67	62.00%	$3,479.85	78.00%	$2,714.29
237	Maple - Norway	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$960.00	$2,620.86	68.00%	$1,782.19	80.00%	$1,425.75	78.00%	$1,112.08
238	Maple - Norway	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$960.00	$3,970.00	68.00%	$2,699.60	80.00%	$2,159.68	78.00%	$1,684.55
239	Cedar - Eastern-White	Good	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$600.00	$2,460.17	72.00%	$1,771.32	80.00%	$1,417.06	78.00%	$1,105.30
240	Maple - Norway	Fair	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$960.00	$4,501.47	68.00%	$3,061.00	62.00%	$1,897.82	78.00%	$1,480.30
241	Maple - Norway	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	80.00%	$1,322.89	78.00%	$1,031.85
242	Maple - Norway	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$960.00	$3,249.44	68.00%	$2,209.62	80.00%	$1,767.69	78.00%	$1,378.80
243	Fir - Balsam	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$880.00	$3,890.00	48.00%	$1,867.20	80.00%	$1,493.76	78.00%	$1,165.13
244	Maple - Norway	Good	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$960.00	$6,009.03	68.00%	$4,086.14	80.00%	$3,268.91	78.00%	$2,549.75
245	Maple - Norway	Poor	43	21.5	**1451.47**	6	3	**28.26**	**1423.205**	**9265.06455**	$960.00	$10,225.06	68.00%	$6,953.04	35.00%	$2,433.57	78.00%	$1,898.18
246	Maple - Norway	Poor	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$960.00	$1,287.06	68.00%	$875.20	35.00%	$306.32	78.00%	$238.93
247	Maple - Norway	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$960.00	$822.02	68.00%	$558.97	62.00%	$346.56	78.00%	$270.32
248	Maple - Norway	Poor	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$960.00	$3,249.44	68.00%	$2,209.62	35.00%	$773.37	78.00%	$603.23
249	Cherry - Sweet	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$750.00	$693.79	59.00%	$409.33	62.00%	$253.79	78.00%	$197.95
250	Maple - Manitoba	Fair	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$575.00	$1,867.92	38.00%	$709.81	62.00%	$440.08	78.00%	$343.26
251	Maple - Norway	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	80.00%	$1,322.89	78.00%	$1,031.85
252	Elm - Siberian	Good	61	30.5	**2920.99**	6	3	**28.26**	**2892.725**	**18831.63975**	$875.00	$19,706.64	39.00%	$7,685.59	80.00%	$6,148.47	78.00%	$4,795.81
253	Maple - Manitoba	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	62.00%	$151.12	78.00%	$117.88
254	Maple - Manitoba	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$575.00	$1,126.92	38.00%	$428.23	62.00%	$265.50	78.00%	$207.09
255	Maple - Manitoba	Fair	36	18	**1017.36**	6	3	**28.26**	**989.1**	**6439.041**	$575.00	$7,014.04	38.00%	$2,665.34	62.00%	$1,652.51	78.00%	$1,288.96
256	Apple sp.	Good	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$820.00	$5,869.03	57.00%	$3,345.34	80.00%	$2,676.28	78.00%	$2,087.50
257	Maple - Manitoba	Fair	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$575.00	$3,585.00	38.00%	$1,362.30	62.00%	$844.63	78.00%	$658.81
258	Maple - Manitoba	Good	29	14.5	**660.19**	6	3	**28.26**	**631.925**	**4113.83175**	$575.00	$4,688.83	38.00%	$1,781.76	80.00%	$1,425.40	78.00%	$1,111.82
259	Elm - Siberian	Good	62	31	**3017.54**	6	3	**28.26**	**2989.28**	**19460.2128**	$875.00	$20,335.21	39.00%	$7,930.73	80.00%	$6,344.59	78.00%	$4,948.78
260	Maple - Norway	Poor	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$960.00	$1,287.06	68.00%	$875.20	35.00%	$306.32	78.00%	$238.93

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
261	Maple - Manitoba	Fair	53	26.5	**2205.07**	6	3	**28.26**	**2176.805**	**14171.00055**	$575.00	$14,746.00	38.00%	$5,603.48	62.00%	$3,474.16	78.00%	$2,709.84
262	Maple - Norway	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$960.00	$2,084.28	68.00%	$1,417.31	80.00%	$1,133.85	78.00%	$884.40
263	Cottonwood - Eastern	Hazard	78	39	**4775.94**	6	3	**28.26**	**4747.68**	**30907.3968**	$700.00	$31,607.40	67.00%	$21,176.96	10.00%	$2,117.70	78.00%	$1,651.80
264	Maple - Manitoba	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	62.00%	$151.12	78.00%	$117.88
265	Spruce - Colorado	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$975.00	$2,267.92	76.00%	$1,723.62	80.00%	$1,378.89	78.00%	$1,075.54
266	Spruce - Colorado	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$975.00	$2,099.28	76.00%	$1,595.45	80.00%	$1,276.36	78.00%	$995.56
267	Maple - Manitoba	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$575.00	$804.97	38.00%	$305.89	62.00%	$189.65	78.00%	$147.93
268	Spruce - White	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$940.00	$1,619.68	75.00%	$1,214.76	80.00%	$971.81	78.00%	$758.01
269	Spruce - Colorado	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$975.00	$1,041.43	76.00%	$791.49	62.00%	$490.72	78.00%	$382.76
270	Spruce - White	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$940.00	$1,491.92	75.00%	$1,118.94	80.00%	$895.15	78.00%	$698.22
271	Maple - Manitoba	Fair	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$575.00	$1,254.68	38.00%	$476.78	62.00%	$295.60	78.00%	$230.57
272	Spruce - White	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$940.00	$1,267.06	75.00%	$950.30	80.00%	$760.24	78.00%	$592.99
273	Spruce - White	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$940.00	$1,267.06	75.00%	$950.30	80.00%	$760.24	78.00%	$592.99
274	Spruce - White	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$940.00	$1,491.92	75.00%	$1,118.94	80.00%	$895.15	78.00%	$698.22
275	Maple - Manitoba	Fair	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$575.00	$1,254.68	38.00%	$476.78	62.00%	$295.60	78.00%	$230.57
276	Spruce - White	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$940.00	$1,619.68	75.00%	$1,214.76	80.00%	$971.81	78.00%	$758.01
277	Spruce - White	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$940.00	$1,169.97	75.00%	$877.47	80.00%	$701.98	78.00%	$547.54
278	Maple - Manitoba	Fair	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$575.00	$902.06	38.00%	$342.78	62.00%	$212.53	78.00%	$165.77
279	Maple - Manitoba	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	62.00%	$151.12	78.00%	$117.88
280	Pine - Eastern White	Good	24	12	**452.16**	6	3	**28.26**	**423.9**	**2759.589**	$850.00	$3,609.59	75.00%	$2,707.19	80.00%	$2,165.75	78.00%	$1,689.29
281	Pine - Eastern White	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$850.00	$3,139.44	75.00%	$2,354.58	80.00%	$1,883.66	78.00%	$1,469.26
282	Pine - Eastern White	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$850.00	$2,919.69	75.00%	$2,189.77	80.00%	$1,751.82	78.00%	$1,366.42
283	Walnut - Black	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$975.00	$975.00	67.00%	$653.25	62.00%	$405.02	78.00%	$315.91
284	Pine - Eastern White	Good	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$850.00	$3,369.40	75.00%	$2,527.05	80.00%	$2,021.64	78.00%	$1,576.88
285	Spruce - White	Good	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$940.00	$1,083.09	75.00%	$812.32	80.00%	$649.85	78.00%	$506.89
286	Spruce - White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$940.00	$940.00	75.00%	$705.00	62.00%	$437.10	78.00%	$340.94
287	Maple - Manitoba	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$575.00	$804.97	38.00%	$305.89	80.00%	$244.71	78.00%	$190.87
288	Spruce - White	Good	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$940.00	$1,083.09	75.00%	$812.32	80.00%	$649.85	78.00%	$506.89
289	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
290	Spruce - White	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$940.00	$1,169.97	75.00%	$877.47	80.00%	$701.98	78.00%	$547.54
291	Spruce - White	Good	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$940.00	$1,006.43	75.00%	$754.83	80.00%	$603.86	78.00%	$471.01
292	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
293	Spruce - White	Good	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$940.00	$1,083.09	75.00%	$812.32	80.00%	$649.85	78.00%	$506.89
294	Pine - Eastern White	Dead	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$850.00	$916.43	75.00%	$687.33	10.00%	$68.73	78.00%	$53.61
295	Pine - Eastern White	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$850.00	$2,919.69	75.00%	$2,189.77	80.00%	$1,751.82	78.00%	$1,366.42
296	Maple - Manitoba	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$575.00	$575.00	38.00%	$218.50	62.00%	$135.47	78.00%	$105.67
297	Pine - Eastern White	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$850.00	$2,510.86	75.00%	$1,883.15	80.00%	$1,506.52	78.00%	$1,175.08
298	Pine - Eastern White	Fair	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$850.00	$2,321.78	75.00%	$1,741.34	62.00%	$1,079.63	78.00%	$842.11
299	Pine - Eastern White	Fair	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$850.00	$2,710.17	75.00%	$2,032.63	62.00%	$1,260.23	78.00%	$982.98
300	Pine - Eastern White	Fair	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$850.00	$2,510.86	75.00%	$1,883.15	62.00%	$1,167.55	78.00%	$910.69
301	Maple - Norway	Good	46	23	**1661.06**	6	3	**28.26**	**1632.8**	**10629.528**	$960.00	$11,589.53	68.00%	$7,880.88	80.00%	$6,304.70	78.00%	$4,917.67
302	Elm - Siberian	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$875.00	$875.00	39.00%	$341.25	62.00%	$211.58	78.00%	$165.03
303	Olive - Russian	Good	69	34.5	**3737.39**	6	3	**28.26**	**3709.125**	**24146.40375**	$800.00	$24,946.40	56.00%	$13,969.99	80.00%	$11,175.99	78.00%	$8,717.27
304	Ash - White	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$640.00	$706.43	72.00%	$508.63	62.00%	$315.35	78.00%	$245.97
305	Ash - White	Poor	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$640.00	$583.79	72.00%	$420.33	35.00%	$147.11	78.00%	$114.75
306	Maple - Manitoba	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$575.00	$718.09	38.00%	$272.87	62.00%	$169.18	78.00%	$131.96
307	Maple - Manitoba	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$575.00	$1,392.66	38.00%	$529.21	80.00%	$423.37	78.00%	$330.23
308	Maple - Manitoba	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	62.00%	$151.12	78.00%	$117.88
309	Maple - Manitoba	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$575.00	$1,867.92	38.00%	$709.81	80.00%	$567.85	78.00%	$442.92
310	Walnut - Black	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$975.00	$837.02	67.00%	$560.80	62.00%	$347.70	78.00%	$271.20
311	Maple - Manitoba	Poor	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	35.00%	$85.31	78.00%	$66.54
312	Maple - Sugar	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$950.00	$1,767.66	77.00%	$1,361.10	80.00%	$1,088.88	78.00%	$849.32
313	Maple - Manitoba	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$575.00	$1,254.68	38.00%	$476.78	80.00%	$381.42	78.00%	$297.51
314	Maple - Sugar	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$950.00	$1,501.92	77.00%	$1,156.48	80.00%	$925.18	78.00%	$721.64
315	Maple - Manitoba	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	62.00%	$151.12	78.00%	$117.88
316	Maple - Manitoba	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$575.00	$3,585.00	38.00%	$1,362.30	80.00%	$1,089.84	78.00%	$850.07
317	Maple - Sugar	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$950.00	$1,767.66	77.00%	$1,361.10	80.00%	$1,088.88	78.00%	$849.32
318	Maple - Sugar	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$950.00	$1,767.66	77.00%	$1,361.10	80.00%	$1,088.88	78.00%	$849.32
319	Spruce - Colorado	Good	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$975.00	$6,356.20	76.00%	$4,830.71	80.00%	$3,864.57	78.00%	$3,014.36
320	Maple - Sugar	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$950.00	$1,629.68	77.00%	$1,254.85	80.00%	$1,003.88	78.00%	$783.03
321	Maple - Sugar	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$950.00	$1,915.86	77.00%	$1,475.21	80.00%	$1,180.17	78.00%	$920.53
322	Maple - Manitoba	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$575.00	$575.00	38.00%	$218.50	62.00%	$135.47	78.00%	$105.67
323	Maple - Norway	Good	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$960.00	$4,782.54	68.00%	$3,252.13	80.00%	$2,601.70	78.00%	$2,029.33
324	Maple - Manitoba	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$575.00	$518.79	38.00%	$197.14	62.00%	$122.23	78.00%	$95.34
325	Maple - Manitoba	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$575.00	$575.00	38.00%	$218.50	80.00%	$174.80	78.00%	$136.34

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
326	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
327	Spruce - White	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$940.00	$1,619.68	75.00%	$1,214.76	80.00%	$971.81	78.00%	$758.01
328	Spruce - White	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$940.00	$1,619.68	75.00%	$1,214.76	80.00%	$971.81	78.00%	$758.01
329	Spruce - White	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$940.00	$1,757.66	75.00%	$1,318.24	80.00%	$1,054.59	78.00%	$822.58
330	Maple - Manitoba	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$575.00	$718.09	38.00%	$272.87	62.00%	$169.18	78.00%	$131.96
331	Spruce - White	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$940.00	$1,491.92	75.00%	$1,118.94	80.00%	$895.15	78.00%	$698.22
332	Spruce - White	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$940.00	$1,267.06	75.00%	$950.30	80.00%	$760.24	78.00%	$592.99
333	Spruce - White	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$940.00	$1,169.97	75.00%	$877.47	80.00%	$701.98	78.00%	$547.54
334	Spruce - White	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$940.00	$802.02	75.00%	$601.52	62.00%	$372.94	78.00%	$290.89
335	Spruce - White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$940.00	$883.79	75.00%	$662.84	62.00%	$410.96	78.00%	$320.55
336	Spruce - White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$940.00	$940.00	75.00%	$705.00	62.00%	$437.10	78.00%	$340.94
337	Maple - Manitoba	Good	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$575.00	$1,254.68	38.00%	$476.78	80.00%	$381.42	78.00%	$297.51
338	Spruce - White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$940.00	$940.00	75.00%	$705.00	62.00%	$437.10	78.00%	$340.94
339	Maple - Norway	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$960.00	$3,970.00	68.00%	$2,699.60	80.00%	$2,159.68	78.00%	$1,684.55
340	Cedar - Eastern-White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	62.00%	$267.84	78.00%	$208.92
341	Apple sp.	Fair	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$820.00	$3,339.40	57.00%	$1,903.46	62.00%	$1,180.14	78.00%	$920.51
342	Alder - European	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$945.00	$1,011.43	46.00%	$465.26	62.00%	$288.46	78.00%	$225.00
343	Maple - Norway	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	80.00%	$1,322.89	78.00%	$1,031.85
344	Maple - Norway	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$960.00	$1,511.92	68.00%	$1,028.10	62.00%	$637.42	78.00%	$497.19
345	Walnut - Black	Fair	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$975.00	$2,099.28	67.00%	$1,406.52	62.00%	$872.04	78.00%	$680.19
346	Maple - Norway	Dead	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$960.00	$1,511.92	68.00%	$1,028.10	10.00%	$102.81	78.00%	$80.19
347	Maple - Manitoba	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$575.00	$2,046.78	38.00%	$777.78	80.00%	$622.22	78.00%	$485.33
348	Walnut - Black	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$975.00	$837.02	67.00%	$560.80	62.00%	$347.70	78.00%	$271.20
349	Maple - Norway	Good	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$960.00	$3,479.40	68.00%	$2,365.99	80.00%	$1,892.79	78.00%	$1,476.38
350	Maple - Norway	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	80.00%	$1,322.89	78.00%	$1,031.85
351	Maple - Manitoba	Dead	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$575.00	$2,864.44	38.00%	$1,088.49	10.00%	$108.85	78.00%	$84.90
352	Maple - Silver	Poor	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$900.00	$966.43	60.00%	$579.86	35.00%	$202.95	78.00%	$158.30
353	Maple - Norway	Good	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$960.00	$6,009.03	68.00%	$4,086.14	80.00%	$3,268.91	78.00%	$2,549.75
354	Maple - Norway	Good	34	17	**907.46**	6	3	**28.26**	**879.2**	**5723.592**	$960.00	$6,683.59	68.00%	$4,544.84	80.00%	$3,635.87	78.00%	$2,835.98
355	Maple - Norway	Good	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$960.00	$6,009.03	68.00%	$4,086.14	80.00%	$3,268.91	78.00%	$2,549.75
356	Maple - Sugar	Fair	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$950.00	$4,491.47	77.00%	$3,458.43	62.00%	$2,144.23	78.00%	$1,672.50
357	Spruce - White	Poor	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$940.00	$883.79	75.00%	$662.84	35.00%	$231.99	78.00%	$180.96
358	Maple - Norway	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$960.00	$2,084.28	68.00%	$1,417.31	80.00%	$1,133.85	78.00%	$884.40
359	Maple - Norway	Good	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$960.00	$2,431.78	68.00%	$1,653.61	80.00%	$1,322.89	78.00%	$1,031.85
360	Maple - Manitoba	Dead	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$575.00	$1,699.28	38.00%	$645.73	10.00%	$64.57	78.00%	$50.37
361	Cherry - Sweet	Poor	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$750.00	$5,477.07	59.00%	$3,231.47	35.00%	$1,131.02	78.00%	$882.19
362	Maple - Norway	Poor	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$960.00	$1,103.09	68.00%	$750.10	35.00%	$262.54	78.00%	$204.78
363	Maple - Manitoba	Fair	40	20	**1256.00**	6	3	**28.26**	**1227.74**	**7992.5874**	$575.00	$8,567.59	38.00%	$3,255.68	62.00%	$2,018.52	78.00%	$1,574.45
364	Elm - Siberian	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$875.00	$1,018.09	39.00%	$397.06	62.00%	$246.17	78.00%	$192.02
365	Ash - White	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$640.00	$502.02	72.00%	$361.45	62.00%	$224.10	78.00%	$174.80
366	Ash - White	Dead	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$640.00	$2,111.78	72.00%	$1,520.48	10.00%	$152.05	78.00%	$118.60
367	Maple - Silver	Good	69	34.5	**3737.39**	6	3	**28.26**	**3709.125**	**24146.40375**	$900.00	$25,046.40	60.00%	$15,027.84	80.00%	$12,022.27	78.00%	$9,377.37
368	Elm - Siberian	Fair	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$875.00	$5,602.07	39.00%	$2,184.81	62.00%	$1,354.58	78.00%	$1,056.57
369	Maple - Manitoba	Poor	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$575.00	$518.79	38.00%	$197.14	35.00%	$69.00	78.00%	$53.82
370	Elm - Siberian	Poor	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$875.00	$1,018.09	39.00%	$397.06	35.00%	$138.97	78.00%	$108.40
371	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
372	Ash - White	Dead	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$640.00	$537.79	72.00%	$387.21	10.00%	$38.72	78.00%	$30.20
373	Spruce - White	Fair	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$940.00	$2,800.17	75.00%	$2,100.13	62.00%	$1,302.08	78.00%	$1,015.62
374	Spruce - White	Fair	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$940.00	$2,800.17	75.00%	$2,100.13	62.00%	$1,302.08	78.00%	$1,015.62
375	Elm - Siberian	Fair	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$875.00	$3,394.40	39.00%	$1,323.82	62.00%	$820.77	78.00%	$640.20
376	Maple - Norway	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$960.00	$3,249.44	68.00%	$2,209.62	80.00%	$1,767.69	78.00%	$1,378.80
377	Spruce - White	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$940.00	$2,600.86	75.00%	$1,950.65	80.00%	$1,560.52	78.00%	$1,217.20
378	Maple - Manitoba	Good	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$575.00	$5,302.07	38.00%	$2,014.79	80.00%	$1,611.83	78.00%	$1,257.23
379	Maple - Silver	Good	52	26	**2122.64**	6	3	**28.26**	**2094.38**	**13634.4138**	$900.00	$14,534.41	60.00%	$8,720.65	80.00%	$6,976.52	78.00%	$5,441.68
380	Ash - White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$640.00	$583.79	72.00%	$420.33	62.00%	$260.60	78.00%	$203.27
381	Maple - Manitoba	Fair	35	17.5	**961.63**	6	3	**28.26**	**933.365**	**6076.20615**	$575.00	$6,651.21	38.00%	$2,527.46	62.00%	$1,567.02	78.00%	$1,222.28
382	Maple - Silver	Good	55	27.5	**2374.63**	6	3	**28.26**	**2346.365**	**15274.83615**	$900.00	$16,174.84	60.00%	$9,704.90	80.00%	$7,763.92	78.00%	$6,055.86
383	Ash - White	Dead	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$640.00	$2,111.78	72.00%	$1,520.48	10.00%	$152.05	78.00%	$118.60
384	Apple sp.	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$820.00	$1,637.66	57.00%	$933.46	80.00%	$746.77	78.00%	$582.48
385	Maple - Silver	Good	73	36.5	**4183.27**	6	3	**28.26**	**4155.005**	**27049.08255**	$900.00	$27,949.08	60.00%	$16,769.45	80.00%	$13,415.56	78.00%	$10,464.14
386	Ash - White	Dead	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$640.00	$537.79	72.00%	$387.21	10.00%	$38.72	78.00%	$30.20
387	Maple - Manitoba	Fair	44	22	**1519.76**	6	3	**28.26**	**1491.5**	**9709.665**	$575.00	$10,284.67	38.00%	$3,908.17	62.00%	$2,423.07	78.00%	$1,889.99
388	Maple - Silver	Good	49	24.5	**1884.79**	6	3	**28.26**	**1856.525**	**12085.97775**	$900.00	$12,985.98	60.00%	$7,791.59	80.00%	$6,233.27	78.00%	$4,861.95
389	Ash - White	Dead	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$640.00	$869.97	72.00%	$626.38	10.00%	$62.64	78.00%	$48.86
390	Ash - White	Dead	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$640.00	$869.97	72.00%	$626.38	10.00%	$62.64	78.00%	$48.86

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
391	Spruce - White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$940.00	$3,009.69	75.00%	$2,257.27	62.00%	$1,399.51	78.00%	$1,091.62
392	Spruce - White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$940.00	$3,009.69	75.00%	$2,257.27	62.00%	$1,399.51	78.00%	$1,091.62
393	Maple - Manitoba	Poor	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$575.00	$1,699.28	38.00%	$645.73	35.00%	$226.00	78.00%	$176.28
394	Ash - White	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$640.00	$502.02	72.00%	$361.45	62.00%	$224.10	78.00%	$174.80
395	Spruce - White	Dead	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$940.00	$2,600.86	75.00%	$1,950.65	10.00%	$195.06	78.00%	$152.15
396	Ash - White	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$640.00	$706.43	72.00%	$508.63	62.00%	$315.35	78.00%	$245.97
397	Spruce - White	Good	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$940.00	$6,321.20	75.00%	$4,740.90	80.00%	$3,792.72	78.00%	$2,958.32
398	Maple - Manitoba	Poor	42	21	**1384.74**	6	3	**28.26**	**1356.48**	**8830.6848**	$575.00	$9,405.68	38.00%	$3,574.16	35.00%	$1,250.96	78.00%	$975.75
399	Maple - Norway	Fair	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$960.00	$1,287.06	68.00%	$875.20	62.00%	$542.63	78.00%	$423.25
400	Ash - Green	Good	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$620.00	$517.79	68.00%	$352.10	80.00%	$281.68	78.00%	$219.71
401	Ash - White	Dead	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$640.00	$2,500.17	72.00%	$1,800.12	10.00%	$180.01	78.00%	$140.41
402	Maple - Norway	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$960.00	$1,394.38	68.00%	$948.18	80.00%	$758.54	78.00%	$591.66
403	Maple - Manitoba	Fair	41	20.5	**1319.59**	6	3	**28.26**	**1291.325**	**8406.52575**	$575.00	$8,981.53	38.00%	$3,412.98	62.00%	$2,116.05	78.00%	$1,650.52
404	Maple - Norway	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	80.00%	$647.34	78.00%	$504.93
405	Maple - Norway	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$960.00	$1,026.43	68.00%	$697.98	62.00%	$432.74	78.00%	$337.54
406	Maple - Manitoba	Poor	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$575.00	$1,540.86	38.00%	$585.53	35.00%	$204.93	78.00%	$159.85
407	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
408	Maple - Norway	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	62.00%	$501.69	78.00%	$391.32
409	Ash - White	Fair	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$640.00	$4,181.47	72.00%	$3,010.66	62.00%	$1,866.61	78.00%	$1,455.96
410	Ash - White	Dead	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$640.00	$706.43	72.00%	$508.63	10.00%	$50.86	78.00%	$39.67
411	Ash - White	Dead	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$640.00	$1,932.92	72.00%	$1,391.70	10.00%	$139.17	78.00%	$108.55
412	Cedar - Eastern-White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	62.00%	$267.84	78.00%	$208.92
413	Cedar - Eastern-White	Good	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	80.00%	$313.22	78.00%	$244.31
414	Cedar - Eastern-White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	62.00%	$242.75	78.00%	$189.34
415	Cedar - Eastern-White	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	80.00%	$345.60	78.00%	$269.57
416	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
417	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
418	Cedar - Eastern-White	Good	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$600.00	$666.43	72.00%	$479.83	80.00%	$383.87	78.00%	$299.42
419	Cedar - Eastern-White	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$600.00	$462.02	72.00%	$332.65	62.00%	$206.25	78.00%	$160.87
420	Cedar - Eastern-White	Good	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	80.00%	$313.22	78.00%	$244.31
421	Cedar - Eastern-White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	62.00%	$242.75	78.00%	$189.34
422	Cedar - Eastern-White	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$600.00	$666.43	72.00%	$479.83	62.00%	$297.50	78.00%	$232.05
423	Cedar - Eastern-White	Good	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$600.00	$743.09	72.00%	$535.02	80.00%	$428.02	78.00%	$333.86
424	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
425	Cedar - Eastern-White	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	80.00%	$345.60	78.00%	$269.57
426	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
427	Cedar - Eastern-White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	62.00%	$242.75	78.00%	$189.34
428	Cedar - Eastern-White	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	80.00%	$345.60	78.00%	$269.57
429	Cedar - Eastern-White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	62.00%	$267.84	78.00%	$208.92
430	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
431	Cedar - Eastern-White	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	62.00%	$242.75	78.00%	$189.34
432	Cedar - Eastern-White	Good	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$600.00	$543.79	72.00%	$391.53	80.00%	$313.22	78.00%	$244.31
433	Cedar - Eastern-White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	62.00%	$267.84	78.00%	$208.92
434	Cedar - Eastern-White	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	80.00%	$345.60	78.00%	$269.57
435	Cedar - Eastern-White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	62.00%	$267.84	78.00%	$208.92
436	Cedar - Eastern-White	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	62.00%	$267.84	78.00%	$208.92
437	Cedar - Eastern-White	Good	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	80.00%	$286.73	78.00%	$223.65
438	Cedar - Eastern-White	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$600.00	$666.43	72.00%	$479.83	62.00%	$297.50	78.00%	$232.05
439	Cedar - Eastern-White	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	72.00%	$432.00	80.00%	$345.60	78.00%	$269.57
440	Maple - Norway	Fair	34	17	**907.46**	6	3	**28.26**	**879.2**	**5723.592**	$960.00	$6,683.59	68.00%	$4,544.84	62.00%	$2,817.80	78.00%	$2,197.89
441	Spruce - Colorado	Poor	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$975.00	$2,267.92	76.00%	$1,723.62	35.00%	$603.27	78.00%	$470.55
442	Maple - Manitoba	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$575.00	$575.00	38.00%	$218.50	80.00%	$174.80	78.00%	$136.34
443	Walnut - Black	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$975.00	$1,409.38	67.00%	$944.28	80.00%	$755.43	78.00%	$589.23
444	Spruce - Colorado	Fair	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$975.00	$5,390.34	76.00%	$4,096.66	62.00%	$2,539.93	78.00%	$1,981.14
445	Alder - European	Good	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$945.00	$1,011.43	46.00%	$465.26	80.00%	$372.21	78.00%	$290.32
446	Alder - European	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$945.00	$1,174.97	46.00%	$540.48	80.00%	$432.39	78.00%	$337.26
447	Maple - Silver	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$900.00	$1,129.97	60.00%	$677.98	62.00%	$420.35	78.00%	$327.87
448	Alder - European	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$945.00	$1,762.66	46.00%	$810.82	80.00%	$648.66	78.00%	$505.95
449	Maple - Manitoba	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$575.00	$804.97	38.00%	$305.89	80.00%	$244.71	78.00%	$190.87
450	Maple - Manitoba	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$575.00	$2,644.69	38.00%	$1,004.98	80.00%	$803.99	78.00%	$627.11
451	Maple - Manitoba	Fair	18	9	**254.34**	6	3	**28.26**	**226.08**	**1471.7808**	$575.00	$2,046.78	38.00%	$777.78	62.00%	$482.22	78.00%	$376.13
452	Maple - Manitoba	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$575.00	$1,009.38	38.00%	$383.56	80.00%	$306.85	78.00%	$239.34
453	Maple - Silver	Good	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$900.00	$3,419.40	60.00%	$2,051.64	80.00%	$1,641.31	78.00%	$1,280.22
454	Alder - European	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$945.00	$1,174.97	46.00%	$540.48	80.00%	$432.39	78.00%	$337.26
455	Alder - European	Good	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$945.00	$1,011.43	46.00%	$465.26	80.00%	$372.21	78.00%	$290.32

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
456	Maple - Manitoba	Fair	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$575.00	$1,009.38	38.00%	$383.56	62.00%	$237.81	78.00%	$185.49
457	Maple - Manitoba	Good	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$575.00	$1,540.86	38.00%	$585.53	80.00%	$468.42	78.00%	$365.37
458	Maple - Silver	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$900.00	$2,192.92	60.00%	$1,315.75	80.00%	$1,052.60	78.00%	$821.03
459	Alder - European	Good	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$945.00	$1,762.66	46.00%	$810.82	80.00%	$648.66	78.00%	$505.95
460	Maple - Manitoba	Good	24	12	**452.16**	6	3	**28.26**	**423.9**	**2759.589**	$575.00	$3,334.59	38.00%	$1,267.14	80.00%	$1,013.72	78.00%	$790.70
461	Maple - Manitoba	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$575.00	$1,126.92	38.00%	$428.23	80.00%	$342.58	78.00%	$267.21
462	Alder - European	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$945.00	$1,496.92	46.00%	$688.58	80.00%	$550.87	78.00%	$429.68
463	Maple - Manitoba	Good	24	12	**452.16**	6	3	**28.26**	**423.9**	**2759.589**	$575.00	$3,334.59	38.00%	$1,267.14	80.00%	$1,013.72	78.00%	$790.70
464	Maple - Manitoba	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$575.00	$2,644.69	38.00%	$1,004.98	80.00%	$803.99	78.00%	$627.11
465	Alder - European	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$945.00	$1,272.06	46.00%	$585.15	80.00%	$468.12	78.00%	$365.13
466	Maple - Manitoba	Good	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$575.00	$575.00	38.00%	$218.50	80.00%	$174.80	78.00%	$136.34
467	Maple - Silver	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$900.00	$1,129.97	60.00%	$677.98	62.00%	$420.35	78.00%	$327.87
468	Alder - European	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$945.00	$1,496.92	46.00%	$688.58	62.00%	$426.92	78.00%	$333.00
469	Alder - European	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$945.00	$1,174.97	46.00%	$540.48	62.00%	$335.10	78.00%	$261.38
470	Alder - European	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$945.00	$1,011.43	46.00%	$465.26	62.00%	$288.46	78.00%	$225.00
471	Maple - Freeman	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$950.00	$2,610.86	65.00%	$1,697.06	80.00%	$1,357.65	78.00%	$1,058.97
472	Alder - European	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$945.00	$1,379.38	46.00%	$634.51	80.00%	$507.61	78.00%	$395.94
473	Maple - Manitoba	Good	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$575.00	$518.79	38.00%	$197.14	80.00%	$157.71	78.00%	$123.01
474	Maple - Freeman	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$950.00	$2,242.92	65.00%	$1,457.90	80.00%	$1,166.32	78.00%	$909.73
475	Alder - European	Good	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$945.00	$1,088.09	46.00%	$500.52	80.00%	$400.42	78.00%	$312.33
476	Alder - European	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$945.00	$1,379.38	46.00%	$634.51	80.00%	$507.61	78.00%	$395.94
477	Alder - European	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$945.00	$1,088.09	46.00%	$500.52	62.00%	$310.32	78.00%	$242.05
478	Alder - European	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$945.00	$1,379.38	46.00%	$634.51	80.00%	$507.61	78.00%	$395.94
479	Maple - Freeman	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$950.00	$2,074.28	65.00%	$1,348.28	80.00%	$1,078.62	78.00%	$841.33
480	Maple - Manitoba	Good	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$575.00	$718.09	38.00%	$272.87	80.00%	$218.30	78.00%	$170.27
481	Maple - Manitoba	Good	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$575.00	$5,956.20	38.00%	$2,263.36	80.00%	$1,810.68	78.00%	$1,412.33
482	Alder - European	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$945.00	$2,069.28	46.00%	$951.87	80.00%	$761.49	78.00%	$593.97
483	Maple - Manitoba	Good	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$575.00	$641.43	38.00%	$243.75	80.00%	$195.00	78.00%	$152.10
484	Alder - European	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$945.00	$1,011.43	46.00%	$465.26	62.00%	$288.46	78.00%	$225.00
485	Alder - European	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$945.00	$1,379.38	46.00%	$634.51	80.00%	$507.61	78.00%	$395.94
486	Maple - Freeman	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$950.00	$2,242.92	65.00%	$1,457.90	80.00%	$1,166.32	78.00%	$909.73
487	Alder - European	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$945.00	$1,272.06	46.00%	$585.15	80.00%	$468.12	78.00%	$365.13
488	Maple - Freeman	Good	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$950.00	$2,242.92	65.00%	$1,457.90	80.00%	$1,166.32	78.00%	$909.73
489	Alder - European	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$945.00	$1,272.06	46.00%	$585.15	80.00%	$468.12	78.00%	$365.13
490	Alder - European	Good	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$945.00	$1,272.06	46.00%	$585.15	80.00%	$468.12	78.00%	$365.13
491	Alder - European	Good	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$945.00	$1,496.92	46.00%	$688.58	80.00%	$550.87	78.00%	$429.68
492	Maple - Freeman	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$950.00	$950.00	65.00%	$617.50	62.00%	$382.85	78.00%	$298.62
493	Alder - European	Good	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$945.00	$1,174.97	46.00%	$540.48	80.00%	$432.39	78.00%	$337.26
494	Maple - Freeman	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$950.00	$1,093.09	65.00%	$710.51	62.00%	$440.52	78.00%	$343.60
495	Maple - Manitoba	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$575.00	$804.97	38.00%	$305.89	62.00%	$189.65	78.00%	$147.93
496	Maple - Manitoba	Good	27	13.5	**572.27**	6	3	**28.26**	**544.005**	**3541.47255**	$575.00	$4,116.47	38.00%	$1,564.26	80.00%	$1,251.41	78.00%	$976.10
497	Ash - Green	Dead	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$620.00	$620.00	68.00%	$421.60	10.00%	$42.16	78.00%	$32.88
498	Ash - Green	Poor	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$620.00	$1,437.66	68.00%	$977.61	35.00%	$342.16	78.00%	$266.89
499	Apple sp.	Fair	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$820.00	$1,785.86	57.00%	$1,017.94	62.00%	$631.12	78.00%	$492.27
500	Maple - Manitoba	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$575.00	$437.02	38.00%	$166.07	62.00%	$102.96	78.00%	$80.31
501	Maple - Manitoba	Fair	15	7.5	**176.63**	6	3	**28.26**	**148.365**	**965.85615**	$575.00	$1,540.86	38.00%	$585.53	62.00%	$363.03	78.00%	$283.16
502	Ash - White	Dead	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$640.00	$2,929.44	72.00%	$2,109.19	10.00%	$210.92	78.00%	$164.52
503	Ash - Green	Dead	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$620.00	$2,480.17	68.00%	$1,686.51	10.00%	$168.65	78.00%	$131.55
504	Ash - White	Dead	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$640.00	$2,300.86	72.00%	$1,656.62	10.00%	$165.66	78.00%	$129.22
505	Hawthorn sp.	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$725.00	$791.43	62.00%	$490.69	62.00%	$304.23	78.00%	$237.30
506	Hawthorn sp.	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$725.00	$2,794.69	62.00%	$1,732.71	62.00%	$1,074.28	78.00%	$837.94
507	Apple sp.	Fair	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$820.00	$5,869.03	57.00%	$3,345.34	62.00%	$2,074.11	78.00%	$1,617.81
508	Maple - Manitoba	Fair	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$575.00	$4,990.34	38.00%	$1,896.33	62.00%	$1,175.72	78.00%	$917.07
509	Ash - White	Dead	26	13	**530.66**	6	3	**28.26**	**502.4**	**3270.624**	$640.00	$3,910.62	72.00%	$2,815.65	10.00%	$281.56	78.00%	$219.62
510	Apple sp.	Fair	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$820.00	$1,637.66	57.00%	$933.46	62.00%	$578.75	78.00%	$451.42
511	Ash - Green	Dead	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$620.00	$3,139.40	68.00%	$2,134.79	10.00%	$213.48	78.00%	$166.51
512	Hawthorn sp.	Fair	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$725.00	$3,244.40	62.00%	$2,011.53	62.00%	$1,247.15	78.00%	$972.78
513	Hawthorn sp.	Fair	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$725.00	$3,735.00	62.00%	$2,315.70	62.00%	$1,435.73	78.00%	$1,119.87
514	Ash - White	Poor	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$640.00	$1,764.28	72.00%	$1,270.28	35.00%	$444.60	78.00%	$346.79
515	Serviceberry sp.	Good	16	8	**200.96**	6	3	**28.26**	**172.7**	**1124.277**	$660.00	$1,784.28	71.00%	$1,266.84	80.00%	$1,013.47	78.00%	$790.51
516	Ash - Black	Dead	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$600.00	$1,279.68	57.00%	$729.42	10.00%	$72.94	78.00%	$56.89
517	Ash - Green	Poor	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$620.00	$2,480.17	68.00%	$1,686.51	35.00%	$590.28	78.00%	$460.42
518	Maple - Manitoba	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$575.00	$718.09	38.00%	$272.87	62.00%	$169.18	78.00%	$131.96
519	Ash - Black	Dead	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$600.00	$600.00	57.00%	$342.00	10.00%	$34.20	78.00%	$26.68
520	Hawthorn sp.	Fair	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$725.00	$3,014.44	62.00%	$1,868.95	62.00%	$1,158.75	78.00%	$903.82

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
521	Hawthorn sp.	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$725.00	$725.00	62.00%	$449.50	62.00%	$278.69	78.00%	$217.38
522	Cherry - Sweet	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$750.00	$750.00	59.00%	$442.50	62.00%	$274.35	78.00%	$213.99
523	Hawthorn sp.	Fair	40	20	**1256.00**	6	3	**28.26**	**1227.74**	**7992.5874**	$725.00	$8,717.59	62.00%	$5,404.90	62.00%	$3,351.04	78.00%	$2,613.81
524	Maple - Norway	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	62.00%	$501.69	78.00%	$391.32
525	Maple - Norway	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$960.00	$3,970.00	68.00%	$2,699.60	80.00%	$2,159.68	78.00%	$1,684.55
526	Maple - Norway	Good	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$960.00	$2,620.86	68.00%	$1,782.19	80.00%	$1,425.75	78.00%	$1,112.08
527	Hawthorn sp.	Fair	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$725.00	$2,017.92	62.00%	$1,251.11	62.00%	$775.69	78.00%	$605.04
528	Maple - Norway	Good	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$960.00	$1,394.38	68.00%	$948.18	80.00%	$758.54	78.00%	$591.66
529	Maple - Norway	Fair	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$960.00	$1,777.66	68.00%	$1,208.81	62.00%	$749.46	78.00%	$584.58
530	Maple - Norway	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$960.00	$3,029.69	68.00%	$2,060.19	80.00%	$1,648.15	78.00%	$1,285.56
531	Maple - Norway	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$960.00	$3,249.44	68.00%	$2,209.62	80.00%	$1,767.69	78.00%	$1,378.80
532	Maple - Manitoba	Dead	26	13	**530.66**	6	3	**28.26**	**502.4**	**3270.624**	$575.00	$3,845.62	38.00%	$1,461.34	10.00%	$146.13	78.00%	$113.98
533	Hawthorn sp.	Dead	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$725.00	$1,159.38	62.00%	$718.82	10.00%	$71.88	78.00%	$56.07
534	Hawthorn sp.	Good	24	12	**452.16**	6	3	**28.26**	**423.9**	**2759.589**	$725.00	$3,484.59	62.00%	$2,160.45	80.00%	$1,728.36	78.00%	$1,348.12
535	Hawthorn sp.	Good	35	17.5	**961.63**	6	3	**28.26**	**933.365**	**6076.20615**	$725.00	$6,801.21	62.00%	$4,216.75	80.00%	$3,373.40	78.00%	$2,631.25
536	Hawthorn sp.	Fair	26	13	**530.66**	6	3	**28.26**	**502.4**	**3270.624**	$725.00	$3,995.62	62.00%	$2,477.29	62.00%	$1,535.92	78.00%	$1,198.02
537	Maple - Norway	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$960.00	$822.02	68.00%	$558.97	62.00%	$346.56	78.00%	$270.32
538	Maple - Manitoba	Good	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$575.00	$5,956.20	38.00%	$2,263.36	80.00%	$1,810.68	78.00%	$1,412.33
539	Maple - Norway	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	68.00%	$614.57	62.00%	$381.04	78.00%	$297.21
540	Hawthorn sp.	Poor	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$725.00	$1,052.06	62.00%	$652.28	35.00%	$228.30	78.00%	$178.07
541	Apple sp.	Fair	64	32	**3215.36**	6	3	**28.26**	**3187.1**	**20748.021**	$820.00	$21,568.02	57.00%	$12,293.77	62.00%	$7,622.14	78.00%	$5,945.27
542	Hawthorn sp.	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$725.00	$3,014.44	62.00%	$1,868.95	80.00%	$1,495.16	78.00%	$1,166.23
543	Ash - White	Dead	56	28	**2461.76**	6	3	**28.26**	**2433.5**	**15842.085**	$640.00	$16,482.09	72.00%	$11,867.10	10.00%	$1,186.71	78.00%	$925.63
544	Hawthorn sp.	Dead	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$725.00	$3,014.44	62.00%	$1,868.95	10.00%	$186.90	78.00%	$145.78
545	Maple - Manitoba	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$575.00	$437.02	38.00%	$166.07	62.00%	$102.96	78.00%	$80.31
546	Apple sp.	Poor	34	17	**907.46**	6	3	**28.26**	**879.2**	**5723.592**	$820.00	$6,543.59	57.00%	$3,729.85	35.00%	$1,305.45	78.00%	$1,018.25
547	Maple - Manitoba	Good	36	18	**1017.36**	6	3	**28.26**	**989.1**	**6439.041**	$575.00	$7,014.04	38.00%	$2,665.34	80.00%	$2,132.27	78.00%	$1,663.17
548	Maple - Manitoba	Fair	33	16.5	**854.87**	6	3	**28.26**	**826.605**	**5381.19855**	$575.00	$5,956.20	38.00%	$2,263.36	62.00%	$1,403.28	78.00%	$1,094.56
549	Maple - Manitoba	Fair	35	17.5	**961.63**	6	3	**28.26**	**933.365**	**6076.20615**	$575.00	$6,651.21	38.00%	$2,527.46	62.00%	$1,567.02	78.00%	$1,222.28
550	Hawthorn sp.	Fair	29	14.5	**660.19**	6	3	**28.26**	**631.925**	**4113.83175**	$725.00	$4,838.83	62.00%	$3,000.08	62.00%	$1,860.05	78.00%	$1,450.84
551	Hawthorn sp.	Fair	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$725.00	$1,542.66	62.00%	$956.45	62.00%	$593.00	78.00%	$462.54
552	Ash - Green	Dead	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$620.00	$2,480.17	68.00%	$1,686.51	10.00%	$168.65	78.00%	$131.55
553	Hawthorn sp.	Fair	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$725.00	$1,159.38	62.00%	$718.82	62.00%	$445.67	78.00%	$347.62
554	Ash - Green	Dead	20	10	**314.00**	6	3	**28.26**	**285.74**	**1860.1674**	$620.00	$2,480.17	68.00%	$1,686.51	10.00%	$168.65	78.00%	$131.55
555	Maple - Manitoba	Fair	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$575.00	$1,009.38	38.00%	$383.56	62.00%	$237.81	78.00%	$185.49
556	Ash - Green	Dead	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$620.00	$5,035.34	68.00%	$3,424.03	10.00%	$342.40	78.00%	$267.07
557	Hawthorn sp.	Fair	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$725.00	$4,547.54	62.00%	$2,819.48	62.00%	$1,748.08	78.00%	$1,363.50
558	Hawthorn sp.	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$725.00	$2,794.69	62.00%	$1,732.71	62.00%	$1,074.28	78.00%	$837.94
559	Maple - Norway	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$960.00	$960.00	68.00%	$652.80	62.00%	$404.74	78.00%	$315.69
560	Maple - Norway	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$960.00	$960.00	68.00%	$652.80	62.00%	$404.74	78.00%	$315.69
561	Hawthorn sp.	Fair	32	16	**803.84**	6	3	**28.26**	**775.58**	**5049.0258**	$725.00	$5,774.03	62.00%	$3,579.90	62.00%	$2,219.54	78.00%	$1,731.24
562	Maple - Norway	Good	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$960.00	$4,782.54	68.00%	$3,252.13	80.00%	$2,601.70	78.00%	$2,029.33
563	Hawthorn sp.	Fair	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$725.00	$3,244.40	62.00%	$2,011.53	62.00%	$1,247.15	78.00%	$972.78
564	Apple sp.	Fair	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$820.00	$5,547.07	57.00%	$3,161.83	62.00%	$1,960.34	78.00%	$1,529.06
565	Maple - Norway	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	68.00%	$614.57	62.00%	$381.04	78.00%	$297.21
566	Hawthorn sp.	Fair	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$725.00	$5,140.34	62.00%	$3,187.01	62.00%	$1,975.95	78.00%	$1,541.24
567	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
568	Maple - Norway	Fair	7	3.5	**38.47**	6	3	**28.26**	**10.205**	**66.43455**	$960.00	$1,026.43	68.00%	$697.98	62.00%	$432.74	78.00%	$337.54
569	Hawthorn sp.	Poor	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$725.00	$3,014.44	62.00%	$1,868.95	35.00%	$654.13	78.00%	$510.22
570	Maple - Manitoba	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$575.00	$804.97	38.00%	$305.89	62.00%	$189.65	78.00%	$147.93
571	Hawthorn sp.	Fair	40	20	**1256.00**	6	3	**28.26**	**1227.74**	**7992.5874**	$725.00	$8,717.59	62.00%	$5,404.90	62.00%	$3,351.04	78.00%	$2,613.81
572	Hawthorn sp.	Fair	44	22	**1519.76**	6	3	**28.26**	**1491.5**	**9709.665**	$725.00	$10,434.67	62.00%	$6,469.49	62.00%	$4,011.09	78.00%	$3,128.65
573	Maple - Norway	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$960.00	$1,103.09	68.00%	$750.10	62.00%	$465.06	78.00%	$362.75
574	Maple - Norway	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	62.00%	$501.69	78.00%	$391.32
575	Maple - Norway	Fair	8	4	**50.24**	6	3	**28.26**	**21.98**	**143.0898**	$960.00	$1,103.09	68.00%	$750.10	62.00%	$465.06	78.00%	$362.75
576	Hawthorn sp.	Good	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$725.00	$2,794.69	62.00%	$1,732.71	80.00%	$1,386.17	78.00%	$1,081.21
577	Hawthorn sp.	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$725.00	$3,735.00	62.00%	$2,315.70	80.00%	$1,852.56	78.00%	$1,445.00
578	Maple - Norway	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$960.00	$822.02	68.00%	$558.97	62.00%	$346.56	78.00%	$270.32
579	Hawthorn sp.	Fair	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$725.00	$5,140.34	62.00%	$3,187.01	62.00%	$1,975.95	78.00%	$1,541.24
580	Hawthorn sp.	Fair	23	11.5	**415.27**	6	3	**28.26**	**387.005**	**2519.40255**	$725.00	$3,244.40	62.00%	$2,011.53	62.00%	$1,247.15	78.00%	$972.78
581	Maple - Manitoba	Fair	11	5.5	**94.99**	6	3	**28.26**	**66.725**	**434.37975**	$575.00	$1,009.38	38.00%	$383.56	62.00%	$237.81	78.00%	$185.49
582	Maple - Manitoba	Fair	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$575.00	$1,126.92	38.00%	$428.23	62.00%	$265.50	78.00%	$207.09
583	Ash - Green	Dead	12	6	**113.04**	6	3	**28.26**	**84.78**	**551.9178**	$620.00	$1,171.92	68.00%	$796.90	10.00%	$79.69	78.00%	$62.16
584	Maple - Norway	Good	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	80.00%	$466.64	78.00%	$363.98
585	Hawthorn sp.	Fair	28	14	**615.44**	6	3	**28.26**	**587.18**	**3822.5418**	$725.00	$4,547.54	62.00%	$2,819.48	62.00%	$1,748.08	78.00%	$1,363.50

Tree Number	Tree Species	Condition	Diameter of Appraised Tree (cm)	Radius of Appraised Tree (cm)	Area Of Appraised Tree (cm)	Diameter of Replacement Tree (cm)	Radius of Replacement Tree (cm)	Area of the Replacement Tree (cm)	Appraised Tree Trunk Increase	TA Increase x $6.51/cm2	Cost of Replacement Tree	Basic Tree Cost	Species Rating	Species Value	Conditions Rating	Condition Value	Location Rating	Appraised Value
586	Ash - Green	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$620.00	$482.02	68.00%	$327.77	62.00%	$203.22	78.00%	$158.51
587	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
588	Ash - Green	Dead	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$620.00	$1,912.92	68.00%	$1,300.78	10.00%	$130.08	78.00%	$101.46
589	Maple - Manitoba	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$575.00	$472.79	38.00%	$179.66	62.00%	$111.39	78.00%	$86.88
590	Hawthorn sp.	Good	22	11	**379.94**	6	3	**28.26**	**351.68**	**2289.4368**	$725.00	$3,014.44	62.00%	$1,868.95	80.00%	$1,495.16	78.00%	$1,166.23
591	Maple - Manitoba	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$575.00	$437.02	38.00%	$166.07	62.00%	$102.96	78.00%	$80.31
592	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
593	Hawthorn sp.	Fair	52	26	**2122.64**	6	3	**28.26**	**2094.38**	**13634.4138**	$725.00	$14,359.41	62.00%	$8,902.84	62.00%	$5,519.76	78.00%	$4,305.41
594	Hawthorn sp.	Good	42	21	**1384.74**	6	3	**28.26**	**1356.48**	**8830.6848**	$725.00	$9,555.68	62.00%	$5,924.52	80.00%	$4,739.62	78.00%	$3,696.90
595	Maple - Norway	Fair	6	3	**28.26**	6	3	**28.26**	**0**	**0**	$960.00	$960.00	68.00%	$652.80	62.00%	$404.74	78.00%	$315.69
596	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
597	Hawthorn sp.	Fair	64	32	**3215.36**	6	3	**28.26**	**3187.1**	**20748.021**	$725.00	$21,473.02	62.00%	$13,313.27	62.00%	$8,254.23	78.00%	$6,438.30
598	Maple - Norway	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$960.00	$3,970.00	68.00%	$2,699.60	80.00%	$2,159.68	78.00%	$1,684.55
599	Maple - Norway	Fair	9	4.5	**63.59**	6	3	**28.26**	**35.325**	**229.96575**	$960.00	$1,189.97	68.00%	$809.18	62.00%	$501.69	78.00%	$391.32
600	Hawthorn sp.	Fair	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$725.00	$1,052.06	62.00%	$652.28	62.00%	$404.41	78.00%	$315.44
601	Apple sp.	Fair	39	19.5	**1193.99**	6	3	**28.26**	**1165.725**	**7588.86975**	$820.00	$8,408.87	57.00%	$4,793.06	62.00%	$2,971.69	78.00%	$2,317.92
602	Hawthorn sp.	Poor	19	9.5	**283.39**	6	3	**28.26**	**255.125**	**1660.86375**	$725.00	$2,385.86	62.00%	$1,479.24	35.00%	$517.73	78.00%	$403.83
603	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
604	Hawthorn sp.	Dead	13	6.5	**132.67**	6	3	**28.26**	**104.405**	**679.67655**	$725.00	$1,404.68	62.00%	$870.90	10.00%	$87.09	78.00%	$67.93
605	Hawthorn sp.	Good	25	12.5	**490.63**	6	3	**28.26**	**462.365**	**3009.99615**	$725.00	$3,735.00	62.00%	$2,315.70	80.00%	$1,852.56	78.00%	$1,445.00
606	Hawthorn sp.	Fair	17	8.5	**226.87**	6	3	**28.26**	**198.605**	**1292.91855**	$725.00	$2,017.92	62.00%	$1,251.11	62.00%	$775.69	78.00%	$605.04
607	Hawthorn sp.	Poor	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$725.00	$1,052.06	62.00%	$652.28	35.00%	$228.30	78.00%	$178.07
608	Hawthorn sp.	Good	31	15.5	**754.39**	6	3	**28.26**	**726.125**	**4727.07375**	$725.00	$5,452.07	62.00%	$3,380.29	80.00%	$2,704.23	78.00%	$2,109.30
609	Apple sp.	Dead	10	5	**78.50**	6	3	**28.26**	**50.24**	**327.0624**	$820.00	$1,147.06	57.00%	$653.83	10.00%	$65.38	78.00%	$51.00
610	Apple sp.	Dead	26	13	**530.66**	6	3	**28.26**	**502.4**	**3270.624**	$820.00	$4,090.62	57.00%	$2,331.66	10.00%	$233.17	78.00%	$181.87
611	Maple - Norway	Fair	5	2.5	**19.63**	6	3	**28.26**	**-8.635**	**-56.21385**	$960.00	$903.79	68.00%	$614.57	62.00%	$381.04	78.00%	$297.21
612	Maple - Norway	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$960.00	$822.02	68.00%	$558.97	62.00%	$346.56	78.00%	$270.32
613	Maple - Norway	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$960.00	$857.79	68.00%	$583.30	62.00%	$361.65	78.00%	$282.08
614	Ash - Green	Dead	14	7	**153.86**	6	3	**28.26**	**125.6**	**817.656**	$620.00	$1,437.66	68.00%	$977.61	10.00%	$97.76	78.00%	$76.25
615	Ash - Green	Fair	3	1.5	**7.07**	6	3	**28.26**	**-21.195**	**-137.97945**	$620.00	$482.02	68.00%	$327.77	62.00%	$203.22	78.00%	$158.51
616	Hawthorn sp.	Fair	37	18.5	**1074.67**	6	3	**28.26**	**1046.405**	**6812.09655**	$725.00	$7,537.10	62.00%	$4,673.00	62.00%	$2,897.26	78.00%	$2,259.86
617	Hawthorn sp.	Poor	30	15	**706.50**	6	3	**28.26**	**678.24**	**4415.3424**	$725.00	$5,140.34	62.00%	$3,187.01	35.00%	$1,115.45	78.00%	$870.05
618	Apple sp.	Fair	51	25.5	**2041.79**	6	3	**28.26**	**2013.525**	**13108.04775**	$820.00	$13,928.05	57.00%	$7,938.99	62.00%	$4,922.17	78.00%	$3,839.29
619	Cherry - Sweet	Good	54	27	**2289.06**	6	3	**28.26**	**2260.8**	**14717.808**	$750.00	$15,467.81	59.00%	$9,126.01	80.00%	$7,300.81	78.00%	$5,694.63
620	Cherry - Sweet	Good	54	27	**2289.06**	6	3	**28.26**	**2260.8**	**14717.808**	$750.00	$15,467.81	59.00%	$9,126.01	80.00%	$7,300.81	78.00%	$5,694.63
621	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
622	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
623	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
624	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
625	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
626	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
627	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
628	Cedar - Eastern-White	Fair	21	10.5	**346.19**	6	3	**28.26**	**317.925**	**2069.69175**	$600.00	$2,669.69	72.00%	$1,922.18	62.00%	$1,191.75	78.00%	$929.57
629	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
630	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
631	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
632	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
633	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
634	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
635	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
636	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
637	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
638	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
639	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
640	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
641	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
642	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
643	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
644	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
645	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
646	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
647	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
648	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33
649	Cedar - Eastern-White	Fair	4	2	**12.56**	6	3	**28.26**	**-15.7**	**-102.207**	$600.00	$497.79	72.00%	$358.41	62.00%	$222.21	78.00%	$173.33

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Appendix H

Tree Inventory Abbreviations

Tree Inventory Abbreviations

1SD(*x*)	ONE-SIDED CROWN (*x*= N, NE, E, SE, S, SW, W, NW)
AD	ANIMAL/ INSECT DAMAGE
BC	BROKEN CROWN
BH	BAT HABITAT
BN	BARK NECROSIS
BOB	LOCATED AT BOTTOM OF BANK
BR#	# OF BROKEN BRANCHES
BSD	BASAL TRUNK DAMAGE
CD	CROWN DIEBACK
CL	CHLORONIC LEAVES
CN	CROWN NECROSIS
CS	CLOSE TO BUILDING
CT	CROOKED/ BENT TRUNK
CV	CAVITY
DC	DELEVOPED CROWN FORM
DE	DISEASED/ DECAY
DED	DUTCH ELM DISEASE
DF	DEFOLIATED
DL	DEVELOPED LEADER
DT	DISTINCTIVE TREE
DW	DEADWOOD
EAB	EMERALD ASH BORER
ER	EXPOSED ROOTS
ETB	ENLARGED TRUNK BASE
FK#@#M	# OF TRUNKS AT # METRES ABOVE GROUND
FC	FROST CRACKS
FS	FUSED BRANCHES/LIMBS
GC	GRADE CHANGED
GR	GIRDLING ROOT(S)
GTF	GROWING THROUGH FENCE
HP	HAZARD POTENTAIL OF TREE
IB	INCLUDED BARK
LG	LAYING ON GROUND
LN(*x*)	LEAN: (*x*= L [LOW, <5°], M [MODERATE, 5-15°], [HIGH, >15°])
LS	LIGHT SUPPRESSED
LT	LANDSCAPE TREE
MB	MULTI-BRANCH NODES ON TRUNK
ML	MULTIPLE LEADERS
MOB	MIDDLE OF BANK
NST	BIRD NEST IN TREE
PB	PEELING BARK
PC	POLLARDED CROWN
PF	PREVIOUS FAILURE
PL	POOR LEADER DEVELPOMENT
PP	PAST PRUNING
PTH	PLANTED TOO HIGH
PTL	PLANTED TOO LOW
RB	REMOVE BASKET/ BURLAP
RC(#)	REQUIRES CABLING (# OF CABLES)
RFS	REGENERATION FROM STUMP
RH	REMOVE TREE HARDWARE
RM	REMOVE PLANT
RP	REQUIRES PRUNING AND/OR THINNING
RPM	ROOT PLATE MOVEMENT
RT	REQUIRES UNDER-STORY THINNING
SB	SPROUTS AT TRUNK BASE
SC	SPROUTS IN CROWN
SL	SLENDER FORM
SN	SQUIRREL NEST
SF	SUPERIOR TREE FORM
SP	SAPLING
ST	SPROUTS ON TRUNK
TK#	# OF TRUNKS AT OR BELOW 1.4M
TOB	LOCATED AT TOP OF BANK
TS	TRUNK SPLIT
TT	TWISTED TRUNK
TW	TRUNK WOUND
UC(*x*)	UNBALANCED CROWN (*x*= N, NE, E, SE, S, SW, W, NW)
UW	TREE UNDER/ OVER POWER WIRES
VC	VINE COVERED
WC	WOUND COMPARMENTALIZED
WNC	WOUND NOT COMPARTMENTALIZED

Last Updated: *19th December 2019*

Quantified Conditions (defects, diseases)
L (low/minor), M (moderate), H (high/severe)
e.g. LN(L) = minor lean

DBH = Diameter at Breast Height (i.e. 1.4m)

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Appendix E

Fluvial Geomorphological Assessment Report

Malton Flood Mitigation - Etude Drive to Justine Drive - Roster Assignment – FINAL

Fluvial Geomorphological Assessment

Project reference: 60620028

February, 2024

Statement of Qualifications and Limitations

The attached Report (the “Report”) has been prepared by AECOM Canada Ltd. (“AECOM”) for the benefit of the Client (“Client”) in accordance with the agreement between AECOM and Client, including the scope of work detailed therein (the “Agreement”).

The information, data, recommendations and conclusions contained in the Report (collectively, the “Information”):

- is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the “Limitations”);
- represents AECOM’s professional judgement in light of the Limitations and industry standards for the preparation of similar reports;
- may be based on information provided to AECOM which has not been independently verified;
- has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued;
- must be read as a whole and sections thereof should not be read out of such context;
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- in the case of subsurface, environmental or geotechnical conditions, may be based on limited testing and on the assumption that such conditions are uniform and not variable either geographically or over time.

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1. Introduction

AECOM has been retained to complete a Class B Municipal Class Environmental Assessment to allow for the selection of a preferred solution for the Malton Flood Mitigation from Etude Drive to Justine Drive as part of a City of Mississauga Roster Assignment. A flood characterization study was completed in 2018 and identified the easement of Etude to Justine Drive as Flooding Cluster 6. A significant rainfall event inundated the Malton area on July 8th, 2013. As a result of this flooding the Malton Flood Characterization Study was completed in 2018, which discussed the existing flood issues within Malton and divided the neighbourhood into clusters for further analysis. Flood Cluster 6 refers to the flooding at the intersection of Michaud Avenue and Honeysuckle Avenue where inundation of private property occurs during large and even small storm events.

1.1 Study Area Location

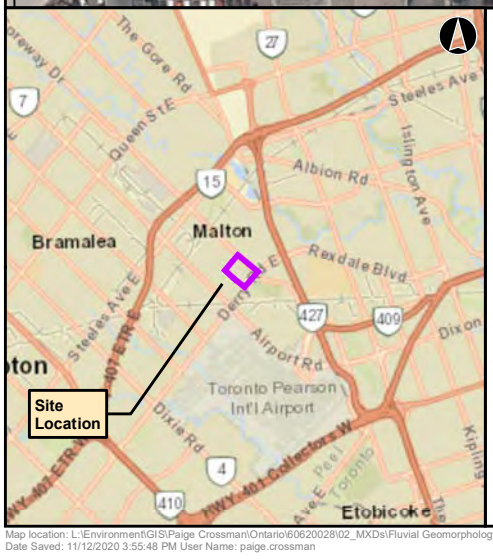
The study area is located within the City of Mississauga and under the jurisdiction of the Toronto and Region Conservation Authority (TRCA). The immediate study area is within Flood Cluster 6, including the flooding at the intersection of Michaud Avenue and Honeysuckle Avenue where inundation of private property occurs during large and even small storm events. For the purpose of this project, the study area is defined as the overland flow route along a public walkway and Honeysuckle Avenue from Etude Drive to the storm outfall just south of Justine Drive. (Refer to Figure 1-1), and the receiving watercourse. As part of the different storage and conveyance alternatives assessed, AECOM's fluvial geomorphologists completed field work along both the Tributary of East Mimico Creek and East Mimico Creek.

1.2 Aims and Objectives

The key objective of this report is to document fluvial geomorphological conditions along existing watercourses in the vicinity of the proposed outlet to convey flood waters within the study area .Fluvial geomorphic field work was completed along the Tributary of East Mimico Creek and East Mimico Creek itself as a consideration for potential outlet discharge. Specifically, the scope of work has included:

- Background Review;
- Delineation of Fluvial Geomorphological Reaches;
- Reach-Scale Geomorphological Characterization;
- Field Reconnaissance and Geomorphological Assessment; and
- Review of the PCSWMM 2D Modelling Outputs with Regards to Fluvial Geomorphological Processes.

Shallford Rd
Jolliffe Ave
Vernor Dr
Cambrett Dr
Hermitage Rd
Dooley Dr
Etude Dr
Honeysuckle Ave
Minotola Ave
Goreway Dr
Sonja Rd
Michaud Ave
Capricorn Cres
Dorcas St
Justine Dr
Derry Rd E
EMCT-1
EMCT-2
EMC-1
EMC-2
Mimico Creek
170
165



Legend

- Major Road
- Collector Road
- Local Road
- Watercourse
- Contours
- Reach Breaks

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6

Study Area

0 50 100
Metres

Nov 2020	1:2,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF Image: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Sources: Esri, HERE, Garmin, USGS, Intermap,
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Figure 1-1

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2. Desk-Based Assessment

A background review was undertaken to ensure that the fluvial geomorphic assessment builds on previous work. The following documents provide key information relating to watershed characteristics and previous findings that form the basis for the fluvial geomorphic assessment. Key documents included:

- Etobicoke and Mimico Creeks Watersheds Technical Update (TRCA, 2010);
- Malton Greenway Sanitary Infrastructure Protection Project – Design Brief, City of Mississauga (GHD, 2016);
- Malton Flood Cluster 6 – Stormwater Management Report – DRAFT (AECOM, 2020a)
- Natural Resources Canada (NRCAN) – The Atlas of Canada, Toporama online mapping tool (NRCAN, 2020); and
- Ontario Ministry of Energy, Northern Development and Mines (MENDM) OGSEarth online mapping tool (MENDM, 2020)

The information most pertinent to the fluvial geomorphological assessment and meander belt width assessment has been extracted here – further details can be obtained within the reference reports themselves.

2.1 Key Watershed Characteristics

East Mimico Creek is located within the Mimico Creek watershed under the jurisdiction of TRCA. The headwaters begin in Peel Region in the Town of Caledon, City of Brampton and City of Mississauga, and the lower reaches flow through a small area of the City of Toronto (TRCA, 2010). Mimico Creek flows through Brampton, Mississauga and Toronto and drains to Lake Ontario. The Mimico Creek watershed is a heavily urbanized watershed that drains 77 km^2 or 7,709 Ha. The Mimico Creek watershed is situated between the Etobicoke Creek watershed to the west and the Humber River watershed to the East.

2.2 Physiography and Geology

The Mimico Creek watershed begins on the South Slope of the Oak Ridges Moraine and drains into Lake Ontario (TRCA, 2010). The study area is part of the Bevelled Till Plains Physiographic Region. Geology exerts a fundamental control on the watercourse and establishes the volume and proportion of groundwater and surface water available to flow through the drainage basin. Geology also determines the volume and properties of sediment supplied to the channel and the strength and erodibility of the surficial material through which the watercourse flows. The substrate along the watercourse is sourced from the bank and valley material in the vicinity of the watercourse and therefore impacts and controls the fluvial geomorphology characteristics of the watercourse.

The surficial geology within the study area is composed of modern alluvial deposits (including clay, silt, sand, gravel and organic remains), Till (including clay to silt textured sediment derived from glaciolacustrine deposits or shale) in the vicinity of the watercourse and tributary. The watercourse and surrounding area is composed of fine-textured glaciolacustrine deposits (including silt and clay, minor sand and gravel interbedded silt and clay and finally gritty pebbly flow till and rainout deposits) (Chapman and Putnam, 1984). The modern alluvial deposits consisting predominantly of fine material, likely contribute to the erodibility of the channel as well as downstream sediment supply.

2.3 Topography

The topography of the study area has a low point down the centre of the pedestrian pathway, to which the east and west sides flow. Along this low centre line is the overland flow easement consisting of a pedestrian walkway from Etude Drive to the north end of Capricorn Crescent, and then along Honeysuckle Avenue to Michaud Avenue.

The watercourses within the study area include East Mimico Creek Tributary and East Mimico Creek. Each of these watercourses is confined within a defined valley feature. East Mimico Creek has access to the flood plain in some areas within the reach and limited access in other areas where the watercourse comes in contact with the toe of the valley wall.

2.4 Landuse

Residential land use surrounds the northwest side of the study area along Justine Drive and further beyond Goreway Drive towards the north east. There are also commercial properties that run along Derry Road east to the south of the study area and a residential park southeast of Derry Road east located downstream of the study area.

2.5 Key Findings of Previous Assessments

Malton Greenway Sanitary Infrastructure Protection Project – Design Brief, City of Mississauga (TRCA, 2016)

In 2016, GHD completed a Design Brief for the Malton Greenway Sanitary Infrastructure protection on behalf of the City of Mississauga and the Toronto and Region Conservation Authority. TRCA identified a section of East Mimico Creek (upstream of the existing outlet channel, Reach EMC-1) in need of channel bank stabilization and remediation to reduce the hazard to the adjacent sanitary infrastructure (owned by the Regional Municipality of Peel). Various degrees of erosion issues and aquatic habitat limitations were noted including evidence of active adjustment in the form of widening and downcutting, as observed through actively eroding and near-vertical banks, slumps, undermined gabion baskets and overhanging/falling vegetation.

A rapid geomorphic assessment was completed within Reach EMC-1 and it was classified as unstable (In Adjustment) with an RGA score of 0.48. Widening was the most dominant mode of adjustment the reach also showed a tendency of planimetric form adjustment and evidence of aggradation. A bankfull width of 8-10 m was determined and a bankfull depth of 0.75 – 1.25 m.

Malton Flood Cluster 6 - Stormwater Management Report – DRAFT (AECOM, 2020a)

The flooding risks within Flood Cluster 6 were explored and several possible Alternatives were considered and evaluated to determine a feasible short list of alternative designs to address the flooding. Alternative 1 was selected as the Preliminary Preferred Alternative. This solution includes replacing the 1650 mm diameter trunk with a 1.7 m culvert from Etude Drive outfall south of Justine Drive. Several additional, possibly custom, inlets were required to capture the additional flow. The outfall channel downstream of the outlet would have to be reconstructed to make room for the larger pipe and could be redesigned to mitigate flows upstream of Mimico Creek.

The downstream impacts of Alternative 1 are a slight increase in peak flows and water levels along the outfall and where it meets Mimico Creek. The flows along the channel increase by almost 20%, but when the outfall channel converges with East Mimico Creek the increase in flow reduces to less than 4%. Water levels along the creek would increase by 5 cm where the outfall channel meets the creek. Downstream the increase is reduced. The model results indicate that there will be a slight impact to water levels for several kilometers downstream. The Regional Storm event currently overtops Derry Road. As the Regional Storm event flows were not impacted by the proposed works the overtopping would continue as in existing. The clearance and freeboard criteria for the bridge are not quite met under existing conditions, and would therefore not be met under proposed, as water levels are slightly higher at the bridge under proposed conditions.

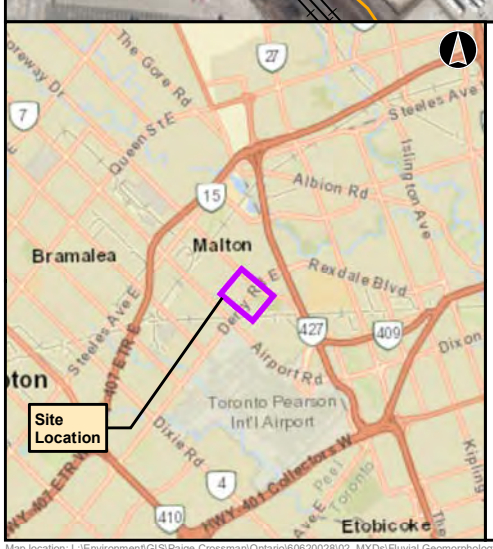
2.6 Reach Delineation

Reaches can be defined as lengths of channel that display similar physical characteristics and have a setting that remains nearly constant along their length. Reaches display relative homogeneity in channel form, functions and process. Reaches are influenced by similar controlling (discharge and slope) and modifying factors (vegetation) to which the channel has become adjusted or will become adjusted to in the future. Reach breaks within the study area were first delineated through a desk-top assessment of tributary locations, channel gradient, geology, valley setting, sinuosity, and riparian vegetation using Geographic Information System (GIS) layers. The reaches were subsequently confirmed in the field.

The location and rationale of the reach breaks within the study area are stated in Table 2-1 and Figure 2-1.

Table 2-1: Defined Reaches in the Vicinity of the Study Area

Reach	Upstream Boundary		Downstream Boundary	
	Reason	Coordinates	Reason	Coordinates
EMC-1	Changes in Valley Setting	43°42'55.18"N 79°37'56.72"W	Confluence with Justine Drive Outlet	43°42'45.60"N 79°38'2.83"W
EMC-2	Confluence with outlet channel	43°42'44.59"N 79°38'4.62"W	Confluence with the Tributary of East Mimico Creek	43°42'41.46"N 79°37'54.89"W
EMCT-1	Watercourse is lined with concrete beyond Lancaster Avenue	43°42'36.65"N 79°38'33.76"W	Confluence with Tributary	43°42'39.99"N 79°38'12.25"W
EMCT-2	Confluence with Tributary	43°42'39.99"N 79°38'12.25"W	Confluence with East Mimico Creek	43°42'41.46"N 79°37'54.89"W



Legend

- Major Road
- Collector Road
- Local Road
- Rail Track
- Watercourse
- Contours
- Reach Breaks

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
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Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6

Reach Breaks in the Vicinity of the Study Area

0 50 100 200
Metres

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Figure 2-1

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Date Saved: 11/12/2020 5:51:21 PM User Name: paige.crossman

3. Historical Aerial Assessment

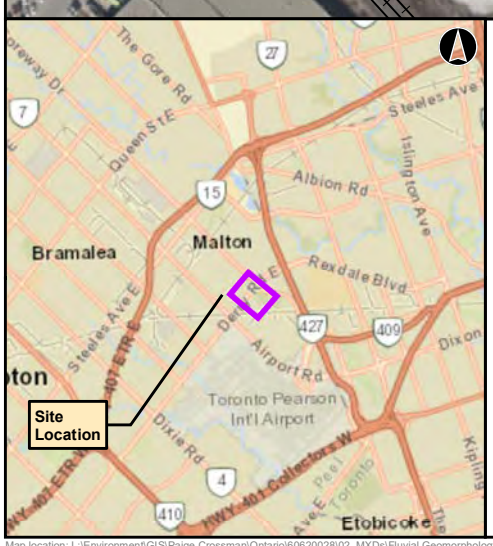
Historical aerial photographs taken in 1954, 1980, 1992 and 2019 were assessed using the City of Mississauga online Maps tool (http://www6.mississauga.ca/missmaps/maps.aspx#map=17/-8864813.9/5421270.36/0.9075712110370514). The photographs were reviewed to analyze changes in local land use and channel planform in vicinity of the study area. The historical channel configurations were digitized and analyzed using Geographic Information Systems (GIS) software to identify changes between 1954 and 2019 and are displayed in Figure 3-1 and Appendix A. Results are summarized in Table 3-1, and the key adjustments included:

- East Mimico Creek was sinuous prior to 1980 and was straightened prior to 1992. The channel began to regain some sinuosity between 1992 and 2019.
- Residential development occurred within the vicinity of the study area prior to 1980.
- Reach EMCT-1 was not visible prior to 1954 and appears to be concrete lined prior to 1980. Reach EMCT-2 appears to be straightened upstream of Derry Road East prior to 1980 and regains sinuosity downstream of Derry Road east from 1980 until 2019.

Table 3-1: Historical Aerial Assessment from 1954 to 2019

Year	Reach	Planform Adjustment	Landuse Adjustment
1954	East Mimico Creek (Reaches EMC-1 and EMC-2)	• Difficult to see the channel due to historical aerial photograph quality	• Derry Road east was constructed prior to 1954 • Surrounding landuse is predominantly agricultural with some mature trees surrounding East Mimico Creek
	Tributary of East Mimico Creek (Reaches EMCT-1 and EMCT-2)	• Difficult to see the channel due to historical aerial photograph quality	• The surrounding landuse is predominantly agricultural
1980	East Mimico Creek (Reaches EMC-1 and EMC-2)	• East Mimico Creek is sinuous	• Residential development occurred prior to 1980 in the vicinity of the study area
	Tributary of East Mimico Creek (Reaches EMCT-1 and EMCT-2)	• Concrete channel at Reach EMCT-1 was constructed prior to 1980 • EMCT-2 is straight upstream of Derry Road East and appears sinuous downstream of Derry Road East	• The surrounding landuse is primarily residential with commercial properties
1992	East Mimico Creek (Reaches EMC-1 and EMC-2)	• Channel was straightened prior to 1992 in the vicinity of the study area	• More residential and commercial development has occurred prior to 1992 • Limited mature vegetation surrounds the channel, it is predominantly herbaceous vegetation
	Tributary of East Mimico Creek (Reaches EMCT-1 and EMCT-2)	• EMCT-1 is similar to 1980 • EMCT-2 has gained some sinuosity since 1980 upstream of Derry Road and is sinuous downstream of Derry Road	• Landuse is similar to1980
2019	East Mimico Creek (Reaches EMC-1 and EMC-2)	• East Mimico Creek has regained some sinuosity	• Mature vegetation has re-established around East Mimico Creek
	Tributary of East Mimico Creek (Reaches EMCT-1 and EMCT-2)	• EMCT-1 is similar to 1980 • EMCT-2 has continued to gain sinuosity downstream of Derry Road.	• Landuse is similar to 1992

Newbound Crt
Codlin Ave
Honeysuckle Ave
Michaud Ave
Sonja Rd
Minotola Ave
Capricorn Cres
Victory Cres
Dorcas St
Justine Dr
EMCT-1
EMCT-2
EMC-1
EMC-2
Legion Rd
Derry Rd E
Professional Crt
Nashua Dr
Goreway Dr



Legend

- Major Road
- Collector Road
- Local Road
- Rail Track
- Watercourse
- Reach Breaks

Historical Watercourse Channels

- 1980
- 1992
- 2019

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6

Historical Channel Positions

0 50 100 200
Metres

Nov 2020	1:3,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF Image: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Sources: Esri, HERE, Garmin, USGS, Intermap,
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Figure 3-1

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Date Saved: 11/12/2020 11:24:02 AM User Name: paige.crossman

4. Field-Based Assessment

Field reconnaissance was completed on April 3rd, 2020 to identify existing geomorphological form and processes located in the vicinity of the study area and to verify the findings of the desk-top assessment. Field work was completed along the East Mimico Creek Tributary channel and East Mimico Creek as part of the overall assessment of storage and conveyance alternatives.

During field reconnaissance, geomorphological reach breaks were confined (Figure 2-1). A photographic record (Appendix B) was completed to document channel dimensions, bank and bed materials, riparian vegetation, valley walls and floodplain dynamics. Locations of geomorphological importance were also photographed including bank erosion sites, channel modifications, and woody material within the watercourse.

4.1 Reach Characterization

Reach EMC-1

Reach EMC-1 of the main branch of East Mimico Creek begins approximately 100 m upstream of Goreway Drive and flows downstream approximately 200 m downstream to the confluence with the main outfall channel located to the south of Justine Drive. The surrounding riparian vegetation consisted of herbaceous vegetation and mature trees and shrubs. The bed sediment was composed of fine materials (silt, sand, clay) as well as gravel and cobbles. The reach exhibited defined riffle pool morphology. It was noted that channel restoration work had been completed and there was vegetated rip-rap present.

The bankfull width was approximately 8 to 10 m and the bankfull depth was approximately 1.5 to 1.7 m. On the day of assessment, the wetted width was approximately 6 to 8 m and the wetted depth was approximately 0.30 m. The channel gradient was classified as low to moderate.

Reach EMC-2

Reach EMC-2 begins at the confluence with the outfall channel and the Main Branch of East Mimico Creek and then flows approximately 200 m downstream of Derry Road East where is ends at a confluence with the small tributary of East Mimico Creek. The surrounding riparian vegetation consisted of herbaceous vegetation, small shrubs, and mature trees. The bed sediment consisted of fine material (silt, clay, sand) to small cobble sized materials. The reach exhibited well defined riffle pool morphology and was confined along the right bank. The channel restoration work continued into Reach EMC-2.

The bankfull width was approximately 6 to 8 m and the bankfull depth was approximately 1 to 1.6 m. The wetted width on the day of assessment was approximately 4 to 7 m and the wetted depth on the day of assessment was approximately 0.40 m. The channel gradient was classified as low to moderate.

EMCT-1

EMCT-1 begins at Lancaster Avenue and continues approximately 485 m downstream to the confluence with the Tributary of East Mimico Creek. The channel is lined with concrete and is approximately 4.5 m wide and 0.70 m deep. In channel vegetation was observed within the concrete lined channel as well as overgrown mature trees and some trash, likely impacting the flow conveyance within the channel. At the end of the concrete channel there is steps leading into the naturalized channel, the total height is approximately 2 m. At the transition point between the concrete and the natural channel there is an outfall approximately 1.70 m diameter. There are gabion baskets lining the right bank with missing stone at the bottom. Further downstream there was bank erosion noted in the form of exposed roots and the channel becomes confined within a valley with no access to the floodplain. The bed substate begins to transition to small boulders and there are multiple channel spanning debris jams. A concrete weir structure also exists just upstream of the reach break with an approximate 0.25 m drop on the downstream side.

No bed morphology was noted along the channel, however fine sediment (including silt and sand) has begun to deposit on top of the concrete (approximately 0.11 m). The gradient of the channel was classified as moderate and the channel has been straightened.

EMCT-2

EMCT-2 begins at the confluence with the Tributary of East Mimico Creek and ends approximately 450 m downstream at the confluence with Reach EMC-2 along East Mimico Creek. Gabion baskets continue along the left bank for approximately 100 m of the upstream reach boundary, the gabion is in poor condition with the bottom layer broken and vegetation growing within the gabion. Bank instability was noted through out the reach in the form of undercutting and bank slumping. The channel was confined along the left bank and had limited access to the floodplain along the right bank. Multiple woody debris jams were also noted throughout the reach. At the Derry Road crossing, the gabion was also undercut and there was deposition of cobble along both banks. It is likely that the reach had been straightened upstream of Derry Road.

The bankfull width was approximately 8.3 m and the bankfull depth was approximately 1.1 m. On the day of assessment, the wetted width was 7.2 m and the wetted depth was approximately 0.19 m. The gradient of the channel was classified as moderate and the bed substrate consisted of fine materials (clay, silt, sand) to boulder sized materials. The riparian vegetation consisted of herbaceous vegetation, shrubs and mature trees.

4.2 Rapid Geomorphic Assessment (RGA)

The RGA was designed by the Ontario Ministry of the Environment (1999) to assess reaches in urban channels. This technique uses visual indicators to document evidence of channel instabilities using presence/ absence methodology. Stability is determined by adjustments in slope, either and increase (aggradation) due to sediment deposition or a decrease (degradation) due to bed erosion. It also considers an increase in the bank to bank width (widening) and by any evidence indicating adjustment in the planimetric form regime. Each of the geomorphic indicators is documented throughout the reach and upon completion is tallied by category. These data are then used to calculate an overall reach stability index which classifies the reach as ‘stable’, ‘transitional’ or ‘in-adjustment’ corresponding to their relative sensitivity to altered sediment and flow regimes. The classification and interpretation as defined by the factor value (total score) are identified in Table 4-1 (taken from the Ontario Ministry of the Environment, 2003).

Table 4-1: Rapid Geomorphic Assessment (MECP, 2003)

Factor Value	Classification	Interpretation
≤0.20	In Regime or Stable (Least Sensitive)	Channel morphology is within a range of variance for streams of similar hydrographic characteristics – evidence of instability is isolated or associated with normal river propagation processes.
0.21-0.40	Transitional or Stressed (Moderately Sensitive)	Channel morphology is within the range of variance for streams of similar hydrographic characteristics, but evidence of instability is frequent.
≥0.41	In Adjustment (Most Sensitive)	Channel morphology is not within a range of variance and evidence of instability is widespread.

Reaches EMC-1 and EMC-2 were classified as transitional with a stability index of 0.25 and 0.34 respectively. This indicates that channel morphology is within a range of variance for streams of similar hydrographic characteristics, but the evidence of instability is frequent within throughout the reach. Reach EMC-1 was classified as In Adjustment by GHD in 2016 prior to bank restoration work being completed.

A RGA could not be completed within Reach EMCT-1 because the channel was lined with concrete, therefore there was no channel morphology noted within the channel. Reach EMCT-2 was classified as transitional or moderately stressed with a stability index of 0.33.

Table 4-2: Rapid Geomorphic Assessment Results at Reach EMC-1 and EMC-2

Reach	Factor Value				Stability Index	Classification
	Aggradation	Degradation	Widening	Planimetric Form Adjustment		
EMC-1	0.43	0.10	0.33	0.14	0.25	Transitional/ Moderately Stressed
EMC-2	0.43	0.11	0.67	0.14	0.34	Transitional/ Moderately Stressed
EMCT-1*	-	-	-	-	-	-
EMCT-2	0.57	0.10	0.50	0.17	0.33	Transitional/ Moderately Stressed

*Concrete lined channel therefore no channel morphology was present

Aggradation and widening were the dominant processes identified within reaches EMC-1, EMC-2 and EMCT-2. Within reach EMC-1 evidence of aggradation included a lobate bar, coarse materials embedded within the riffle sections and siltation in pools. Evidence of widening included fallen and leaning trees, occurrence of large organic debris and exposed tree roots. Within Reach EMC-2 evidence of aggradation included coarse material in riffle embedded, siltation in pools and deposition in the overbank zone. Evidence of widening included fallen and leaning trees, occurrence of large organic debris, exposed tree roots, basal scour on the inside of the meander bends, basal scour on both sides of the riffle through the reach and lastly, basal scour for greater than 50% of the reach. EMCT-2 had evidence of aggradation including coarse material in riffle embedded, siltation in pools, accretion on point bars and deposition in the overbank zone. Within EMCT-2 evidence of widening included fallen and leaning trees, occurrence of large organic debris, exposed tree roots, basal scour on the inside of meander bends and basal scour on both sides of the channel through the riffle.

Aggradation and widening could be due to increases in residential development and channel modifications within the study area as noted in Table 3-1 causing increases in lateral adjustment as a direct consequence of channel instability. Channel widening typically is a result of the channel trying to enlarge its cross-section due to changes in flow regime typically from increases in urbanization, providing a sediment source for downstream depositional areas. Past straightening of East Mimico Creek within the study area and notable increases in sinuosity in more recent aerial photography would also contribute to the instability noted in the field. Within Reach EMC-1, the channel has likely improved due to previous works completed since 2016. In 2016, reach EMC-1 was assessed as Stressed, however in 2020, the reach was classified as moderately stressed. These improvements are likely due to the bank stabilization work completed by GHD.

5. Review of Hydraulic Modelling

As part of the overall assessment of the preferred alternative (AECOM, 2020), a review of the hydraulic model outputs was completed to evaluate the implications for sediment entrainment and transport downstream of the outlet. The watercourses form and function are influenced by channel flow and the sediment regime. Changes to the amount of flow and/or frequency of flow have the potential to impact entrainment and transport of sediment.

Review of the AECOM (2020) report identifies that the preferred alternative for the conveyance of the flood waters within the study area includes replacing the 1650 mm storm sewer with 1.7 m x 2.7 m box sewer and add inlets, as well as provide flow dissipation at the outfall, providing a significant flood reduction within the study area. Hydraulic analysis showed that the impacts on water surface elevations and velocities were concentrated where the outfall channel meets the creek tributary and just downstream. Downstream of the confluence there are some slight increases in water level (1-3 cm) and velocity impacts at the outfall channel are noted but dissipate downstream.

As part of the overall assessment of the proposed flows, a geomorphological analysis was completed to compare the proposed 100-year flow velocities and shear stresses with the existing velocities and shear stresses. The hydraulic model outputs have been analysed to compare changes in sediment entrainment and transport potential between the proposed and existing conditions. Using modeled flow velocities and shear stresses, sediment entrainment was determined using a modified Shield's equation (Knighton, 1998) and sediment transport was predicted using empirical equations presented by Komar (1998). Comparison between these two scenarios is contained in the table below (**Table 5-1**). The table shows that only slight increases in velocity and shear stress will occur, therefore there is essentially no change in sediment size class for entrainment or transport of sediment.

The dominant processes occurring within reach EMC-2, located downstream of the outlet channel, are aggradation and widening, and the system is identified as moderately stressed (Section 4.2). This could indicate that the existing flows are not sufficient to support sediment entrainment and transport within the existing system. Widening results in lowering of water depth due to the increase in the cross-sectional area, lowering the channel velocities and shear stresses. The proposed increased discharge appears to have no discernable impact, neither an increase or decrease, on sediment entrainment and transport within the study area for the 100-year flow event.

As noted in the AECOM (2020) report there are some velocity impacts at the outfall channel, but these can be mitigated through implementing natural channel design techniques. Refer to the AECOM (2020) report for more details.

Table 5-1: Comparison of Existing and Proposed 100 year Flow Velocities in terms of Sediment Entrainment and Transport

River Station	100-yr Return Period Flow	Flow Velocity (m/s)		Shear Stress (N/m^2)		Grain Size Entrained (mm)				Grain Size Transported (mm)			
		Existing Conditions	Proposed Conditions	Existing Conditions	Proposed Conditions	Existing Conditions	Size Class	Proposed Conditions	Size Class	Existing Conditions	Size Class	Proposed Conditions	Size Class
306.98	51.2	1.51		19.19		26.36	Coarse Gravel			83.14	Small cobble		
	51.2		1.47		18.05			24.79	Coarse Gravel			78.42	Small Cobble
233.17	51.2	0.97		7.92		10.88	Medium Gravel			31.77	Coarse Gravel		
	53.07		0.97		7.81			10.73	Medium Gravel			31.77	Coarse Gravel
157.31	51.2	2.4		49.42		67.88	Small Cobble			227.64	Large Cobble		
	53.07		2.44		50.81			69.79	Small Cobble			235.97	Large Cobble
61.73	51.2	1.41		16.27		22.35	Coarse Gravel			71.63	Small Cobble		
	53.07		1.44		17.06			23.43	Coarse Gravel			74.98	Small Cobble
21729.2	103.11	1.26		13.31		18.28	Coarse Gravel			56.09	Very Coarse Gravel		
	104.98		1.26		13.24			18.19	Coarse Gravel			56.09	Very Coarse Gravel
21633.2	103.11	2.68		62.22		85.47	Small Cobble			289.36	Small Boulder		
	104.98		2.71		63.28			86.92	Small Cobble			296.45	Small Boulder
21497.5	103.11	2.25		45.66		62.72	Very Coarse Gravel			197.84	Large Cobble		
	104.98		2.25		45.65			62.71	Very Coarse Gravel			197.84	Large Cobble
21353.5	103.11	2.31		45.71		62.79	Very Coarse Gravel			209.49	Large Cobble		
	104.98		2.32		45.91			63.06	Very Coarse Gravel			211.47	Large Cobble
21197.7	103.11	2.1		37.06		50.91	Very Coarse Gravel			170.29	Large Cobble		
	104.98		2.1		37.15			51.03	Very Coarse Gravel			170.29	Large Cobble
20981.7	103.11	2.45		52.19		71.69	Small Cobble			238.08	Large Cobble		
	104.98		2.47		52.98			72.77	Small Cobble			242.32	Large Cobble
20768.5	103.11	1.48		18.72		25.71	Coarse Gravel			79.59	Small Cobble		
	104.98		1.45		18.08			24.84	Coarse Gravel			76.12	Small Cobble
20636.7	103.11	1.37		16.63		22.84	Coarse Gravel			67.29	Small Cobble		
	104.98		1.36		16.38			22.50	Coarse Gravel			66.22	Small Cobble
20194.8	103.11	1.9		30.74		42.23	Very Coarse Gravel			136.99	Large Cobble		
	104.98		1.9		30.69			42.16	Very Coarse Gravel			136.99	Large Cobble
19741.5	103.11	2		35.76		49.12	Very Coarse Gravel			153.15	Large Cobble		
	104.98		2.01		36.02			49.48	Very Coarse Gravel			154.82	Large Cobble
19206.7	103.11	3.79		131.45		180.56	Large Cobble			614.64	Medium Boulder		
	104.98		3.85		135.24			185.77	Large Cobble			635.99	Medium Boulder
18704.8	100.6	2.63		8.9		12.23	Medium Gravel			277.75	Small Boulder		
	101.56		2.65		8.99			12.35	Medium Gravel			282.36	Small Boulder
18206.9	100.6	1.68		24.28		33.35	Very Coarse Gravel			104.84	Small Cobble		
	101.56		1.68		24.16			33.19	Very Coarse Gravel			104.84	Small Cobble

6. Conclusions and Recommendations

AECOM has been retained to complete a Class B Municipal Class Environmental Assessment to allow for the selection of a preferred solution for the Malton Flood Mitigation from Etude Drive to Justine Drive as part of a City of Mississauga Roster Assignment. The following summarizes key findings of the fluvial geomorphic assessment of East Mimico Creek:

- East Mimico Creek was sinuous prior to 1980 and was straightened prior to 1992. The channel began to regain some sinuosity between 1992 and 2019.
- Review of the AECOM (2020) report identifies that the preferred alternative for the conveyance of the flood waters within the study area includes replacing the 1650 mm storm sewer with 1.7 m x 2.7 m box sewer and add inlets, as well as provide flow dissipation at the outfall, providing a significant flood reduction within the study area. Modifications to the outlet channel are proposed and will discharge into Reach EMC-2.
- Reaches EMC-1 and EMC-2 were classified as transitional with a stability index of 0.25 and 0.34 respectively. This indicates that channel morphology is within a range of variance for streams of similar hydrographic characteristics, but the evidence of instability is frequent throughout the reach. Reach EMC-1 was classified as In Adjustment by GHD in 2016 prior to bank restoration work being completed. The dominant processes occurring within reach EMC-2 are aggradation and widening, and the system is identified as moderately stressed.
- For the proposed alternative, hydraulic analysis showed that the impacts on water surface elevations and velocities were concentrated where the outfall channel meets the creek tributary and just downstream. Downstream of the confluence there are some slight increases in water level (1-3 cm) and velocity impacts at the outfall channel are noted but dissipate downstream.
- Review of the hydraulic model output for the 100-year return flow event show that there is no discernable impact (increase or decrease) to sediment entrainment or transport as a result of the proposed increase in flows from the outlet into East Mimico Creek.

6.1 Future Considerations and Recommendations

The preliminary preferred alternative will require the reconstruction of the existing outfall channel downstream of the outlet. Sediment entrainment and transport substrate sizes for the proposed 100-year flow event show no increase or decrease in sediment size, but further fluvial geomorphological assessment will be considered during preliminary and detailed design. Natural channel design principles will be considered for the design of the proposed outfall channel which will require fluvial geomorphic input during the preliminary and detailed design stage.

7. References

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Komar, P. D., 1987. Selective grain entrainment by a current from a bed of mixed sizes: A reanalysis J, Sediment Petrol.,5 7(2),2 03-211, 1987

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Ministry of the Environment 2003. Stormwater Management Planning and Design Manual.

Ministry of Northern Development and Mines. 2012. Physiography Data

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Ontario Ministry of Energy, Northern Development and Mines (MENDM) OGSEarth online mapping tool (MENDM, 2020)

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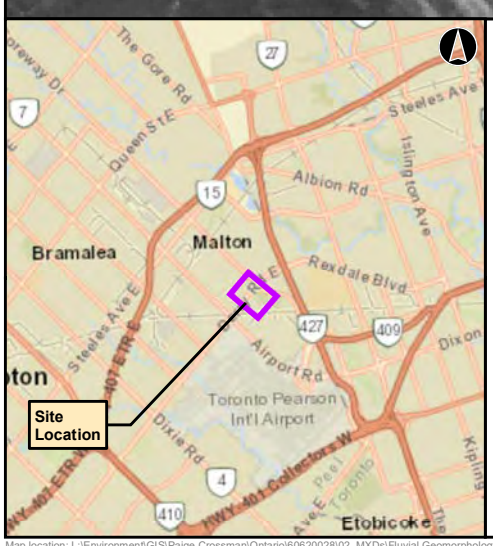
Appendix A

Historical Aerial Photographs

BOUND
CODLIN AVENUE
AVENUE
HONEYSUCKLE
SONJA ROAD
MINOTOLA AVENUE
DAL
MICHAUD AVENUE
EMCT-1
JUSTINE DRIVE
GOREWAY DRIVE
MIMICO CREEK
JUSTINE DRIVE
Mimico Creek
EMC-1
MIMICO CREEK
DERRY ROAD EAST
EAST BRANCH
DERRY ROAD EAST
DERRY RO EAST
LEGION ROAD
EMCT-2
EMC-2
GOREWAY DRIVE
PROFESSIONAL COURT
GOREWAY DRIVE



Legend

Watercourse

Alternative Solutions

Alternative 1: Replace STM & Outlet Upgrades

Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades

Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades

Alternative 4: Park Storage & Bioswale

Alternative 5: Park Storage, Additional Storage & Regrade Easement

Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6
Appendix A

Aerial Photograph - 1954

0 50 100 200
Metres

Nov 2020	1:3,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: Image: Mississauga Open Data
P#: 60520028	V#: 00	

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Figure 1

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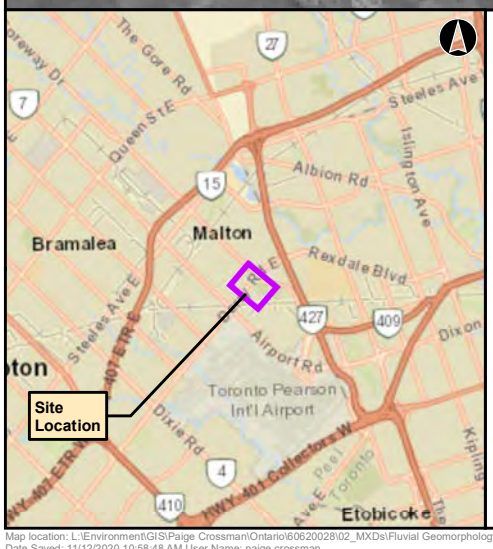

Legend

Watercourse

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6
Appendix A

Aerial Photograph - 1980

0 50 100 200
Metres

Nov 2020	1:3,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: Image: Mississauga Open Data
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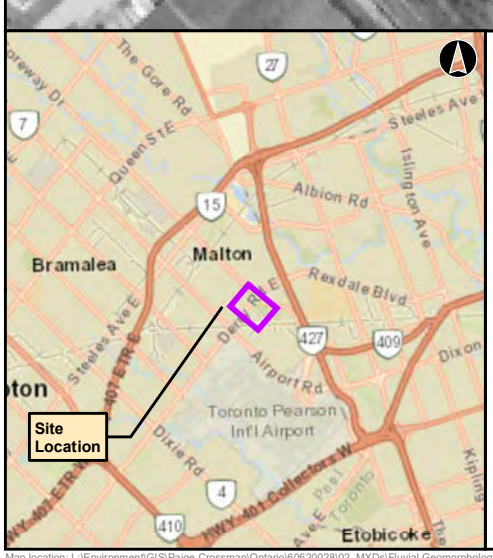

Legend

Watercourse

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6
Appendix A

Aerial Photograph - 1992

0 50 100 200
Metres

Nov 2020	1:3,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF Image: Mississauga Open Data
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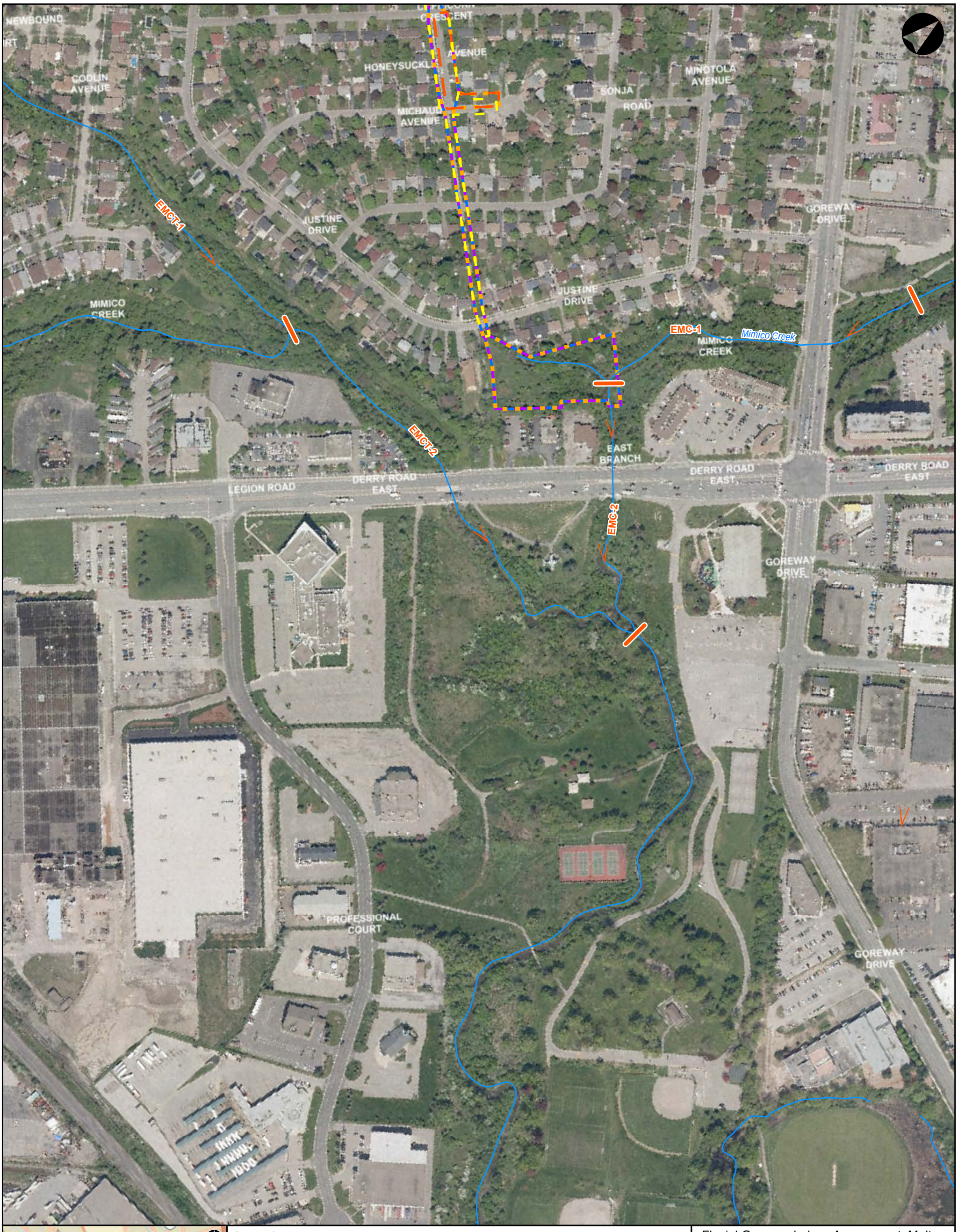

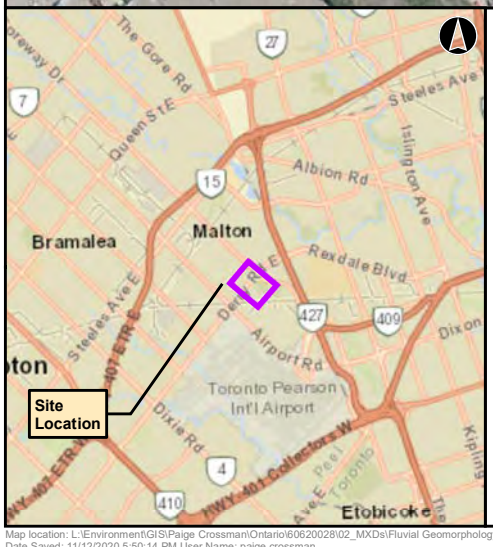

Legend

Watercourse

Alternative Solutions

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

Fluvial Geomorphology Assessment: Malton Flood Mitigation for Flooding Cluster 6 Appendix A

Aerial Photograph - 2019

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Metres

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Appendix B

Photographic Record

Appendix B – Photograph Record

Reach EMC-1

Photograph 1. ↑
Looking Upstream (Upstream extent of Reach EMC-1)

Photograph 2. ↑
Exposed roots along the right bank (viewer looking downstream).

Photograph 3. ↑
Placed bank protection (boulder sized material).

Photograph 4. ↑
Leaning trees along the left bank (viewer looking downstream).

Photograph 5. ↑
Outfall located along the right bank (viewer looking downstream).

Photograph 6. ↑
Gabion along the right bank (viewer looking downstream).

Photograph 7. ↑
Undercutting beneath exposed roots along channel bank.

Photograph 8. ↑
Vegetated Bank Protection.

Reach EMC-2

Photograph 1. ↑
Existing storm sewer (viewer looking upstream).

Photograph 2. ↑
Existing storm sewer (viewer looking upstream).

Photograph 3. ↑
Leaning trees and partially spanning debris build up.

Photograph 4. ↑
Exposed roots along the left bank (viewer looking downstream).

Photograph 5. ↑
Derry Road East Crossing (Viewer looking downstream).

Photograph 6. ↑
Viewer looking upstream at the Derry Road East crossing.

Photograph 7. ↑
Viewer looking upstream.

Photograph 8. ↑
Viewer looking downstream at downstream extent of Reach EMC-2 (Viewer looking downstream).

Reach EMCT-1

Photograph 1. ↑
Looking upstream at the upstream extent of Reach EMCT-1.

Photograph 2. ↑
Viewer looking downstream at concrete channel.

Photograph 3. ↑
Overgrown vegetation within concrete channel.

Photograph 4. ↑
Overhanging trees within concrete channel (viewer looking downstream).

Photograph 5. ↑
Looking downstream at downstream extent of concrete channel (viewer looking downstream).

Photograph 6. ↑
Looking upstream at downstream extent of concrete channel.

Photograph 7. ↑
Viewer looking upstream, just downstream of concrete channel.

Photograph 8. ↑
Looking upstream at the confluence.

Reach EMCT-2

Photograph 1. ↑
Looking upstream at the upstream extent of Reach EMCT-2.

Photograph 2. ↑
Leaning trees along the right bank (viewer looking downstream).

Photograph 3. ↑
Exposed roots along the left bank (viewer looking downstream).

Photograph 4. ↑
Derry Road East crossing (viewer looking upstream).

Photograph 5. ↑
Deposition of fine sediment in the overbank zone along the left bank (viewer looking downstream).

Photograph 6. ↑
Exposed roots and clay along the right bank (viewer looking downstream).

Photograph 7. ↑
Bank slumping along right bank (viewer looking downstream).

Photograph 8. ↑
Viewer looking upstream at the downstream extent of Reach EMCT-2.

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Appendix F

Stage 1 Archaeological Assessment Report

City of Mississauga

Stage 1 Archaeological Assessment Malton Flood Mitigation – Etude Drive to Justine Drive

Lot 11, Concession 7 E.H.S., Geographic Toronto Gore Township City of Mississauga, Regional Municipality of Peel

Prepared by:

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PIF Number: **P123-0462-2020**

December 23, 2021
Original Report

Project Number: 60620028

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Revision #	Date	Revised By:	Revision Description

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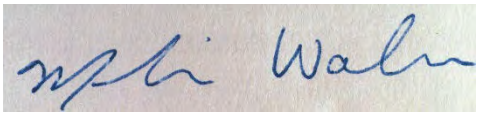

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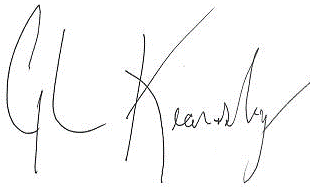
Carla Dobson, Hons. BA
Laboratory Specialist



Glenn Kearsley
Project Archaeologist

Executive Summary

AECOM Canada Ltd. (AECOM) was retained by the City of Mississauga to conduct a Stage 1 Archaeological Assessment (AA) for the Malton Flood Mitigation from Etude Drive to Justine Drive, in the City of Mississauga, Municipality of Peel, Ontario. The study area spans the north half of Lot 11, Concession 7 E.H.S., Geographic Toronto Gore Township, City of Mississauga, Regional Municipality of Peel.

This report details the rationale, methods and results of the Stage 1 AA. The Stage 1 AA was completed by using background research to describe the geography, land use history, previous archaeological fieldwork and current conditions of the study area to determine its archaeological potential. In addition, satellite imagery and thematic and historic maps were analyzed. The results of the Stage 1 assessment indicate while much of the study area does not contain further archaeological potential due to residential and commercial development which has deeply disturbed portions of the study area, there are sections of the study area that are not obviously disturbed and will therefore require a Stage 2 archaeological assessment.

Given the results of this assessment, AECOM makes the following recommendations:

1) The areas marked in solid and hatched green in **Figure 6** require a Stage 2 archaeological assessment. The Stage 2 assessment should be completed in accordance with *Section 2.1 Property Survey* of the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011).

2) Areas marked in solid and cross hatched blue are permanently low and wet and no further work is required (**Figure 6**).

3) Areas marked in solid and hatched red have been determined to be deeply disturbed and no further archaeological assessment is required.

Project Personnel

Project Manager	Glenn Kearsley, MA [P123]
Licensed Archaeologist/Field Director	Glenn Kearsley
Report Production	Melissa Wallace, MA [R496]
Office Assistance	Carla Dobson, Hons BA
Senior Review	Glenn Kearsley
GIS Analyst	Stephanie Cloutier, BA, GIS Dip.

Acknoledgements

Proponent Contact	City of Mississauga
Approval Authority	City of Mississauga

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1. Project Context

1.1 Development Context

AECOM was retained by the City of Mississauga to conduct a Stage 1 archaeological assessment for the Malton Flood Mitigation from Etude Drive to Justine Drive, in the City of Mississauga, Municipality of Peel, Ontario. The study area is found between Etude Drive and Justine Drive, within an existing easement between residential homes, as well as a portion of manicured lawn found beside a school and forested area alongside Mimico Creek.

The Stage 1 archaeological assessment was conducted as part of a Municipal Class Environmental Assessment study under Schedule B during the design stage of the project and was triggered by the requirements of the *Environmental Assessment Act* in accordance with subsection 11(1) (Ontario Government 1990a). This project is subject to the requirements of the *Ontario Heritage Act* (Government of Ontario 1990b) and the *Standards and Guidelines for Consultant Archaeologists* (Government of Ontario 2011).

All archaeological consulting activities were conducted under PIF number P123-0462-2021 issued to Professional Archaeologist Glenn Kearsley in accordance with the Ministry of Heritage, Sport, Tourism and Culture industries (MHSTCI) *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011).

1.1.1 Objectives

The objective of the Stage 1 background study is to document the archaeological and land use history and present conditions within the study area. This information will be used to support recommendations regarding cultural heritage values or interests as well as assessment and mitigation strategies. The results of Stage 1 archaeological assessment presented in this report are drawn in part from:

- Recent and historical maps of the study area;
- Reports of previous archaeological assessments within 50 m of the study area;
- The Ministry of Heritage, Sport, Tourism and Culture Industries' (MHSTCI) Archaeological Sites Database (OASD) for a listing of registered archaeological sites within a 1 km radius of the study area; and
- Archaeological management plans or other archaeological potential mapping, where available.

The Stage 1 archaeological assessment has been conducted to meet the requirements of the MHSTCI *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011).

1.2 Historical Context

Years of archaeological research and assessments in southern Ontario have resulted in a well-developed understanding of the historic use of land in Peel County from the earliest First Nation people to the more recent Euro-

Canadian settlers and farmers. **Table 1** provides a breakdown of the cultural and temporal history of past occupations in Peel County.

Table 1: Cultural Chronology for Peel County

Archaeological Period	Time Period	Characteristics
Early Paleo	9000-8400 BC	• Fluted Points • Arctic tundra and spruce parkland, caribou hunters
Late Paleo	8400-8000 BC	• Holcombe, Hi-Lo and Lanceolate Points • Slight reduction in territory size
Early Archaic	8000-6000 BC	• Notched and Bifurcate base Points • Growing populations
Middle Archaic	6000-2500 BC	• Stemmed and Brewerton Points, Laurentian Development • Increasing regionalization
Late Archaic	2000-1800 BC	• Narrow Point • Environment similar to present
	1800-1500 BC	• Broad Point • Large lithic tools
	1500-1100 BC	• Small Point • Introduction of bow
Terminal Archaic	1100-950 BC	• Hind Points, Glacial Kame Complex • Earliest true cemeteries
Early Woodland	950-400 BC	• Meadowood Points • Introduction of pottery
Middle Woodland	400 BC – AD 500	• Dentate/Psuedo-scallop Ceramics • Increased sedentism
	AD 550-900	• Princess Point • Introduction of corn horticulture
Late Woodland	AD 900-1300	• Agricultural villages
	AD 1300-1400	• Increased longhouse sizes
	AD 1400-1650	• Warring nations and displacement
Contact Period	AD 1600-1875	• Early written records and treaties
Historic	AD 1749-present	• European settlement (French and English)

Notes: Taken from Ellis and Ferris (1990)

The following sections provide a detailed summary of the archaeological cultures that have settled in the vicinity of the study area. As Chapman and Putnam (1984) illustrate, the modern physiography of southern Ontario is largely a product of events of the last major glacial stage and the landscape is a complex mosaic of features and deposits produced during the last series of glacial retreats and advances prior to the withdrawal of the continental glaciers from the area. Southwestern Ontario was finally ice free by 12,500 years ago. With continuing ice retreat and lake regressions the land area of southern Ontario progressively increased while barriers to the influx of plants, animals, and people steadily diminished (Karrow and Warner 1990). The lands within Peel County have been extensively utilized by pre-contact First Nation people who began occupying southwestern Ontario as the glaciers receded from the land, as early as 11,000 BC.

1.2.1 Pre-Contact First Nation Settlement

The Paleo Period

In this area the first human settlement can be traced back to 11,000 BC; these earliest well-documented groups are referred to as Paleo which literally means old or ancient. During the Paleo period people were non-agriculturalists who depended on hunting and gathering of wild food, they moved their encampments on a regular basis to be in the locations where these resources naturally became available, and the size of the groups occupying any particular location would vary depending on the nature and size of the available food resources (Ellis and Deller 1990). The picture that has emerged for the early and late Paleo is of groups at low population densities who were residentially mobile and made use of large territories during annual cycles of resource exploitation.

The Archaic Period

The next major cultural period following the Paleo is termed the Archaic, which is broken temporally into the Early, Middle, and Late Archaic periods. There is much debate on how the term Archaic is employed; general practice bases the designation off assemblage content as there are marked differences in artifact suites from the preceding Paleo and subsequent Woodland periods. As Ellis *et al.* (1990) note, from an artifact and site characteristic perspective the Archaic is simply used to refer to non-Paleo manifestations that pre-date the introduction of ceramics. Ellis *et al.* (1990) stress that Archaic groups can be distinguished from earlier groups based on site characteristics and artifact content.

Early Archaic sites have been reported throughout much of southwestern Ontario and extend as far north as the Lake Huron Basin region and as far east as Rice Lake (Deller *et al.* 1986). A lack of excavated assemblages from southern Ontario has limited understandings and inferences regarding the nature of stone tool kits in the Early Archaic and tool forms other than points are poorly known in Ontario; however, at least three major temporal horizons can be recognized and can be distinguished based on projectile point form (Ellis *et al.* 1990). These horizons are referred to as Side-Notched (*ca.* 8,000-7,700 BC), Corner-Notched (*ca.* 7,700-6,900 BC), and Bifurcated (*ca.* 6,900-6,000 BC) (Ellis *et al.* 1990). Additional details on each of these horizons and the temporal changes to tool types can be found in Ellis *et al*. (1990).

The Middle Archaic period (6,000-2,500 BC), like the Early Archaic, is relatively unknown in southern Ontario. Ellis *et al.* (1990) suggest that artifact traits that have come to be considered as characteristic of the Archaic period as a whole, first appear in the Middle Archaic. These traits include fully ground and polished stone tools, specific tool types including banner stones and net-sinkers, and the use of local and/or non-chert type materials for lithic tool manufacture (Ellis *et al.* 1990).

The Late Archaic begins around approximately 2,000 BC and ends with the beginning of ceramics and the Meadowood Phase at roughly 950 BC. Much more is known about this period than the Early and Middle Archaic and a number of Late Archaic sites are known. Sites appear to be more common than earlier periods, suggesting some degree of population increase. True cemeteries appear and have allowed for the analysis of band size, biological relationships, social organization, and health. Narrow and Small point traditions appear as well as tool recycling wherein points were modified into drills, knives, end scrapers, and other tools (Ellis *et al.* 1990). Other tools including serrated flakes used for sawing or shredding, spokeshaves, and retouched flakes manufactured into perforators, gravers, micro-perforators, or piercers. Tools on coarse-grained rocks such as sandstone and quartz become common and include hammerstones, net-sinkers, anvils, and cobble spalls. Depending on preservation, several Late Archaic sites include bone and/or antler artifacts which likely represent fishing toolkits and ornamentation. These artifacts include bone harpoons, barbs or hooks, notched projectile points, and awls. Bone ornaments recovered have included tubular bone beads and drilled mammal canine pendants (Ellis *et al.* 1990).

Throughout the Early to Late Archaic periods the natural environment warmed, and vegetation changed from closed conifer-dominated vegetation cover, to the mixed coniferous and deciduous forest in the north and deciduous vegetation in the south we see in Ontario today (Ellis *et al.* 1900). During the Archaic period there are indications of increasing populations and decreasing size of territories exploited during annual rounds; fewer moves of residential camps throughout the year and longer occupations at seasonal campsites; continuous use of certain locations on a seasonal basis over many years; increasing attention to ritual associated with the deceased; and, long range exchange and trade systems for the purpose of obtaining valued and geographically localized resources (Ellis *et al.* 1990).

The Woodland Period

The Early Woodland period is distinguished from the Late Archaic period primarily by the addition of ceramic technology, which provides a useful demarcation point for archaeologists but is expected to have made less difference in the lives of the Early Woodland peoples. The settlement and subsistence patterns of Early Woodland people shows much continuity with the earlier Archaic with seasonal camps occupied to exploit specific natural resources (Spence *et al.* 1990). During the Middle Woodland well-defined territories containing several key environmental zones were exploited over the yearly subsistence cycle. Large sites with structures and substantial middens appear in the Middle Woodland associated with spring macro-band occupations focussed on utilizing fish resources and created by consistent returns to the same site (Spence *et al.* 1990). Groups would come together into large macro-bands during the spring-summer at lakeshore or marshland areas to take advantage of spawning fish; in the fall inland sand plains and river valleys were occupied for deer and nut harvesting and groups split into small micro-bands for winter survival (Spence *et al.* 1990). This is a departure from earlier Woodland times when macro-band aggregation is thought to have taken place in the winter (Ellis *et al.* 1988; Granger 1978).

The period between the Middle and Late Woodland period was both technically and socially transitional for the ethnically diverse populations of southern Ontario and these developments laid the basis for the emergence of settled villages and agriculturally based lifestyles (Fox 1990). The Late Woodland period began with a shift in settlement and subsistence patterns involving an increasing reliance on corn horticulture. Corn may have been introduced into southwestern Ontario from the American Midwest as early as 600 AD. However, it did not become a dietary staple until at least three to four hundred years later. The first agricultural villages in southwestern Ontario date to the 10th century A.D. Unlike the riverine base camps of the Middle Woodland period, Late Woodland sites are located in the uplands, on well-drained sandy soils.

In the Late Woodland period, between 900-1300 AD, villages tended to be small settlements with nearby camps and hamlets that served as temporary spaces for hunting game and gathering resources outside of the villages. At this time, small village sites were characterized by the presence of longhouses with villages being occupied considerably longer than later in the Woodland period. Villages tended to be moved when nearby soils had been depleted by farming and conveniently collected firewood grew scarce. The Jesuits reported that the Huron moved their villages once every 10-15 years as they relied less heavily on corn than did later groups, and since their villages were much smaller, there was less demand on nearby resources. Small amounts of corn appear to have been a dietary component at this time; however, archaeological evidence suggests that its role was not as a dietary staple at this time but was possibly supplemental in nature.

Between 1300 and 1400 AD, village sizes grew significantly, resulting in the development of complex community political systems. This period also marks the emergence of fully developed horticulture, including the cultivation of corn, beans, and squash. Additionally, changes in ceramic styles may reflect increasing levels of inter-community communication and integration. This is supported by Michi Saagiig (Mississauga Anishinaabeg) oral histories, which speak to the coming of the corn growers and the symbiotic relationships that Algonkian speaking groups had with the Huron-Wendat in particular.

By the beginning of the fourteenth century, larger fortified village sites were often cleared to accommodate the cultivation of corn, beans, and squash as a result of an increasing reliance on horticulture. Longhouses also continued to grow in size until 1450 AD when a decrease in house length is observed. This decrease in house length may be partially attributed to large scale drops in population size associated with the introduction of European diseases.

1.2.2 Post-Contact Period Settlement

The post-contact Indigenous occupation of southern Ontario was heavily influenced by the dispersal of Iroquoian speaking peoples, including the Six Nations of the Iroquois – Mohawk, Cayuga, Oneida, Seneca, and Tuscarora. This was followed by the return of Algonkian speaking groups from northern Ontario, including the Michi Saagig, who had temporarily retreated to their wintering grounds in the mid-1600s to avoid warfare and disease as a result of colonial settlement. Algonkian speaking Ojibwe (Chippewa), Odawa (Ottawa), and Pottawatomi, known as the Three Fires Confederacy, remained in their traditional territory that covered a vast area of southern Ontario as well as eastern Michigan.

As European settlers encroached on their territory the nature of First Nation population distribution, settlement size and material culture changed. Despite these changes it is possible to correlate historically recorded villages with archaeological manifestations and the similarity of those sites to more ancient sites reveal an antiquity to documented cultural expressions that confirms a long historical continuity to systems of Indigenous ideology and thought (Ferris 2009).

It is important to note that, when discussing the historical documentation of the movement of Indigenous people, what has been documented by early European explorers and settlers represents only a very small snap-shot in time. Documentation of where Indigenous groups were residing during European exploration and settlement is restricted to only a very short period of time and does not reflect previous and subsequent movements of these groups. This brief history does not reflect the full picture of the pre- or post-contact period occupation of Indigenous groups or cultures. As such, relying on historic documentation in regard to Indigenous occupation and movement across the landscape can lead to misinterpretation. For example, noting the movement of Indigenous groups into an area may incorrectly suggest to the reader that these groups had not occupied the area previously; however, this is not the case. It is clear from Indigenous oral histories and the archaeological record that pre-contact Indigenous populations were extremely mobile and not tied to any one specific area. Over the vast period of time prior to the arrival of Europeans, Indigenous groups, language families, and cultures were fluid across the landscape.

The study areas fall within Treaty 14 Head of the Lake Purchase, signed on September 12, 1806 by representatives of the Crown and certain Mississauga peoples. The treaty text is as follows:

> "SIR — I am directed by His Excellency the Lieutenant Governor to transmit you herewith the deed of conveyance and release for the lands purchased from the Mississagua Indians for the use of His Majesty in the Home District, dated the 6th September, 1806, to which is annexed a plan of the same; also a lease of the above tract from the Indians for one year, dated the 5th September, 1806, the receipt of which will please to acknowledge.
>
> I have the honor to be, Sir
>
> Your most obedient servant,
>
> WM. HATTON, Secretary.
> JOHN SMALL, Esq., &c., &c., &c.

THIS INDENTURE, made the fifth day of September, in the Year of Our Lord one thousand eight hundred and six, between Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, Principal Chiefs, Warriors and people of the Missisague Nation of Indians of the one part and His Majesty George the Third, by the Grace of God of the United Kingdom of Great Britain and Ireland King, Defender of the Faith, of the other part. Witnesseth: that the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego in consideration of five shillings apiece of lawful money of Great Britain to them in hand paid His said Majesty at or before the ensiling and delivery of those presents (the receipt whereof is hereby acknowledge) and for other good causes and considerations them the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, hereunto specially moving, have bargained, and sold, and by these presents do, and each of them doth bargain and sell unto His said Majesty, His heirs and successors, all that parcel or tract of land situate in the Home District of the Province of Upper Canada, containing by admeasurement eighty-five thousand acres, be the same more or less, together with all the woods and waters thereon lying and being, which said eighty-five thousand acres of land are butted and bounded or may be otherwise known as follows, that is to say:

Commencing at the eastern bank of the mouth of the River Etobicoke, being on the limit of the western boundary line of the Toronto purchase in the year of Our Lord, one thousand seven hundred and eighty-seven; then north twenty-two degrees west six miles; then south thirty-eight degrees west twenty-six miles, more or less, until it intersects a line on a course north forty-five degrees west produced from the outlet at Burlington Bay being the north-eastern boundary line of the Township of Flamborough East, and of the purchase in the year of Our Lord one thousand seven hundred and ninety two; then along the said line south forty-five degrees east two hundred and thirty-three chains and fifty-eight links, more or less, to the lands granted to Captain Joseph Brant; then north forty-five degrees east one hundred and twenty-seven chains, to the northerly angle of said lands; then south-forty five degrees east two hundred and ninety-three chains, more or less, to Lake Ontario; then north-easterly along the water's edge of said lake to the eastern bank of the River Etobicoke, the place of beginning; and the reversion and reversions, remainder and remainders, yearly and other rents, issues and profits thereof and of every part and parcel thereof, to have and to hold the said parcel or tract of land and all and singular other the premises hereinbefore mentioned, or intended to be bargained and sold, and every part and parcel thereof, with their and every of their rights, members and appurtenances, unto His said Majesty, His heirs and successors, from the day next before the day of the date of these presents for and during and unto the full end and term of one whole year from thence next ensuing and fully to be completed and ended. Yielding and paying therefore unto the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego the yearly rent of one peppercorn at the expiration of the said term if the same shall be lawfully demanded.

To the intent and purpose that by virtue of these presents and of the statute made for transferring uses into possession His said Majesty may be in the actual possession of the premises, and be thereby enabled to take and accept a grant and release of the freehold reversion and inheritance of the same premises and every part and parcel thereof to him His said Majesty, His heirs and successors, to the uses into possession His said Majesty may be in the actual possession of the premises, and be thereby enabled to take and accept a grant and release of the freehold reversion and inheritance of the same premises and every part and parcel thereof to him His said Majesty, His heirs and successors, to the uses to be declared by another Indenture, intended to bear date the next day after the day of the date hereof.

IN WITNESS WHEROF, the parties first above named have to these presents set and put their hands and seals the day and year first above written.

Signed, sealed and delivered in the presence of us:

D. CAMERON,}
DONALD MACLEAN,} Com's. on behalf of the Prov.
GEO. R. FERGUSON,} Capt. Canadian Regt.,
WM. L. CROWTHER, Lieut. 41st Regt.,
JAMES DAVIDSON, Hospital Staff,
H.M. SMITH.
P. SELBY, Asst. Secy. I.A.,
J. B. ROUSSEAU,
DAVID PRICE, Interpreter.

WM. CLAUS, D.S.G., on behalf of the Crown. [L.S.]

CHECHALK, (totem) [L.S.]
QUENEPENON, (totem) [L.S.]
WABUKANYNE, (totem) [L.S.]
OKEMAPENESSE, (totem) [L.S.]
WABENOSE, (totem) [L.S.]
KEBONECENCE, (totem) [L.S.]
OSENEGO, (totem) [L.S.]
ACHETON, (totem) [L.S.]
PATAQUAN, (totem) [L.S.]
WABAKAGEGO, (totem) [L.S.]

THIS INDENTURE, made the sixth day of September, in the year of Our Lord one thousand eight hundred ad six, between Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, the Principal Chiefs, Warriors and people of the Mississague Nation of Indians of the one part, and His Majesty George the Third, by the Grace of God of the United Kingdom of Great Britain and Ireland, King, Defender of the Faith, of the other part, witnesseth: that for and in consideration of the sum of one thousand pounds of lawful money of Upper Canada to the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, in hand well and truly paid by His said Majesty at or before the ensealing and delivery of these presents, the receipt whereof they the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego do hereby acknowledge, and from the same and every part thereof do severally and respectively acquit, release and discharge His said Majesty, His heirs and successors forever by these presents.

They the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, have and every of them hath granted, bargained, sold, aliened, released and confirmed, and by these presents do and every of them doth grant, bargain, sell, alien, release and confirm unto His said Majesty (in his actual possession now being by virtue of a bargain and sale to him thereof made by the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, in consideration of five shillings apiece, by Indenture bearing date the day next before the day of the date of these presents for the term of one whole year, commencing from the

day next before the day of the date of then same Indenture of bargain and sale an by force of the statue made for transferring uses into possession) and to his Heirs and successors – all that parcel or tract of land situate in the Home District of the Province of Upper Canada, containing by admeasurement eighty-five thousand acres, be the sae more or less, together withal the woods and waters, thereon lying and being under the reservation hereinafter expressed; which said eighty-five thousand acres of land are butted and bounded or may be otherwise known as follows, that is to say: Commencing at the eastern bank of the mouth of the River Etobicoke, being on the limit of the western boundary line of the Toronto purchease in the year of Our Lord one thousand seven hundred and eighty-seven; then north twenty-two degrees west six miles; then south thirty-eight degrees west twenty-six miles, more or less, until it intersects a line on a course north forty-five degrees west produced from the outlet at Burlington Bay, being the north-eastern boundary line of the Township of Flamborough East, and o the purchase in the year of Our Lord one thousand seven hundred and ninety-two; then along the said line south forty-five degrees east two hundred and twenty-seven chains to the northerly angle of said lands; then south forty-five degrees east two hundred and ninety-three chains more, or less, to the lands granted to Captain Joseph Brant; then north forty-five degrees east one hundred and twenty-seven chains to the northerly angle of said lands; then south forty-five degrees east two hundred and ninety-three chains more or less to Lake Ontario; then north-easterly along the water's edge of said lake to the eastern bank of the River Etobicoke, the place of beginning. And the reversion and reversions, remainder and remainders, yearly and other rents, issues and profits thereof; and also all the estate, right, title inheritance, use, trust, possession, property, claim and demand whatsoever of them the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego, and every of them in, to, or out of the same premises and every or any part thereof – except and always reserved out of this presents grant unto the said Chechalk, Quenepenon, Wabukanyne, Okemapenesse, Wabenose, Kenonecence, Osenego, Acheton, Patequan and Wabakagego and the people of the Missisagua Nation of Indians, and their posterity for ever – the sole right of the fisheries in the Twelve Mile Creek, the Sixteen Mile Creek, the River Credit and the River Etobicoke, together with the lands on each side of the said creeks and the River Credit as delineated and laid down on the annexed plan, the said right of fishery and reserves extending from the Lake Ontario up the said creeks and River Credit the distance hereinafter mentioned and described and no further.

And the right of fishery in the River Etobicoke from the mouth of the said river to the allowance for road between the first and second concessions south side of Dundas street, and no further.

The reserve on the River Credit commencing on Lake Ontario at a white oak squared post, piled with stones, and standing at the distance of one mile north-easterly from the centre of the said river at the first bend thereof; then north sixty-nine degrees west one hundred and ninety-six chains; then south sixty-four degrees west one hundred and fifty-five chains; then north forty-five degrees west one hundred and seventy-seven chains, more or less, to the rear boundary of the purchase line; then along said purchase line, and crossing the said river south thirty-eight degrees west two miles, or one hundred and sixty-chains, to the western boundary line of said Reserve; then south forty-five degrees east two hundred and seventy chains; then north sixty-four degrees east one hundred and ninety-one chains; then south sixty-nine degrees east sixty-three chains, more or les, to Lake Ontario at another white oak squared post standing on the bank of said lake at the distance of two miles south-westerly from the place of beginning; then along the water's edge of Lake Ontario north easterly to the place of beginning. The reservation on the Sixteen Mile Creek, commencing on the shore or Lake Ontario at an oak post squared and marked "M.I.R. N. 45° W." – at the distance of forty chains north easterly from the centre of said creek; then north forty-five degrees east one hundred and eighteen chains, more or less, to the allowance for road between the second and third concession south of Dundas street; then south thirty-eight degrees

west and crossing the said creek one mile to the western boundary line of said reservation: then south forty-five degrees east one hundred and twenty-four chains more or less to Lake Ontario, at a large black ash tree (two trunks issuing from one root) marked "M.I.R., N. 45° W.;" then north-easterly along the water's edge to the place of beginning. And also all the waters and low grounds lying between the high banks on both sides of said creek extending from the southern boundary of the allowance for road between the aforesaid second and third concessions to the southern boundary of the allowance for road between the first and second concessions south of Dundas street – and no further. And the reservation on the Twelve Mile Creek – commencing on the shore of the Lake Ontario at a post squared and marked "M.I.R., N. 45° W.;" at the distance of forty chains north-easterly from the centre of said creek; then north sixty-six degrees west one hundred and seven chains' then north thirty-six degrees west fifty-seven chains more or less to the southern boundary of the allowance for road between the second and third concessions south of Dundas street; then south thirty-eight degrees west one mile, crossing said creek to the western boundary line of said reservation; then south thirty-six degrees east fifty-seven chain then south sixty-six degrees east one hundred and seventeen chains, more or less to Lake Ontario; then north-easterly along the water's edge tot eh place of beginning. And also the waters and low grounds lying between the high banks on each side of the said creek, extending from the southern boundary of the allowance for road between the second and third concessions before mentioned to the southern boundary of the allowance for road between the first and second concessions south of Dundas street, and no further: To have and to hold the said parcel or tract of land and all and singular other the premises mentioned to be hereby granted and released as aforesaid with their and every of their appurtenances unto His said Majesty, His heirs and successors, to the use of His sais Majesty, His heirs and successors for ever.

In witness whereof, the said parties first above named have to these presents set and put their hands and seals the day and year first above written.

Signed, sealed and delivered in the presence of us:

D. CAMERON,}
DONALD MACLEAN,} Commissioners on behalf of the Province
H.M. SMITH.
GEO. R. FERGUSON,} Capt. Canadian Regiment,
P. SELBY, Asst. Secy. I.A.,
J. B. ROUSSEAU,
WM. L. CROWTHER, Lieut. 41st Regt., JAMES DAVIDSON, Hospital Staff,
DAVID PRICE, Interpreter.

WM. CLAUS, D.S.G., on behalf of the Crown. [L.S.]

CHECHALK, (totem) [L.S.]
QUENEPENON, (totem) [L.S.]
WABUKANYNE, (totem) [L.S.]
OKEMAPENESSE, (totem) [L.S.]
WABENOSE, (totem) [L.S.]
KEBONECENCE, (totem) [L.S.]
OSENEGO, (totem) [L.S.]
ACHETON, (totem) [L.S.]
PATAQUAN, (totem) [L.S.]
WABAKAGEGO, (totem) [L.S.]"*

*Taken from CIRNAC 2019

1.2.3 Euro-Canadian Settlement

Originally formed in 1788, Peel extended "so far westerly as to a north and south line intersecting the extreme projection of Long Point into Lake Erie" (Walker and Miles 1877:84). Formed in 1852 from portions of York County after the abolishment of Districts alongside the Counties of York and Ontario, Peel County did not become separate until 1865. With a population of 12,993 in 1841, the number of inhabitants had increased to 25,011 by 1871. By 1877, several Townships were found within the County, including Albion, Caledon, Chinguacousy, Gore of Toronto, Toronto, as well as the incorporated Town of Brampton and Villages of Streetsville and Bolton. Found on the shore of Lake Ontario, Port Credit was the harbor. Several major waterways are located within the County, including the Credit and Humber, which allowed the development of many mills. The County was mostly settled by 1819, with settlers from New Brunswick, the United States and parts of Upper Canada. They settled in the front of Toronto Township, otherwise known as the 'Old Survey' (Walker and Miles 1877:85). In the New Survey portion of the Toronto Township, a large colony of Irish from New York settled in 1819, while Chinguacousy was primarily settled by United Empire Loyalists.

Named for its peculiar shape, the Gore of Toronto Township is found between the Townships of Chinguacousy, Toronto, Vaughan and Etobicoke (Walker and Miles 1877:88). Surveyed in 1818, the first settlers arrived in 1819. The population of Gore in 1841 was 1,145, and it had climbed to 1,559 in 1871. The study area is found within Lot 11 Concession 7 E.H.S. The 1859 Tremaine and 1877 historical atlas map were reviewed to determine the presence of 19th century settlement features within the study area as the presence of historic features elevates the potential for the recovery of 19th century archaeological resources. It should be noted that not all features of interest, particularly farmhouses and smaller homesteads, were mapped systematically as this would have been beyond the intended scope of the Ontario historical atlas series. In addition, given that atlases were funded by subscription, preference with regard to the level of detail included was given to subscribers. As such, the absence of structures or other features on historic atlas maps does not preclude the presence of historic features at the time the area was surveyed.

On the 1859 Tremaine map, the Grand Trunk Railway runs through the southeast portion of the Township, immediately south of the study area. The largest village in the Township, Malton, a station for that railway, is also found immediately south of the study area. Hugh Cook is listed as occupying the eastern portion of the lot. The 1859 Tremaine map lists a number of owners in the Township, although very few houses or orchards are recorded, with the exception of some churches (**Section 6: Figures**). Other communities include Grahamsville, Claireville, Castlemore, and Coleraine.

Similarly, the 1877 Historic Atlas map depicts the Railway and Malton village, and overall the Township contains many historic features including two churches, a school, several stores, a post office, a blacksmith shop, a harness maker, a wagon shop, and one hotel (Walker and Miles 1877:88). There is no landowner listed on the 1877 mapping for the eastern half of Lot 11, Concession 7 E.H.S.

1.3 Archaeological Context

1.3.1 Natural Environment

The Peel Plain region is composed of clay soils which span across the central portions of York, Peel and Halton Municipalities. The Peel Plains comprise an area of approximately 300 square miles (Chapman & Putnam, 1984: 209). The sediments within the Peel Plain Region typically have been found to be 10 feet deep and heavy in texture. The heavy clays overlay less calcareous shale till in much of the region.

Hardwood forest was the most common type of vegetation before residential and commercial land use development occurred in this area. The better drained parts of the Peel Plain yielded sugar maple, beech, white oak, hickory, basswood and some white pine (Chapman & Putnam 1984: 175). The soil that dominates the region contains differences between horizons. The first 15 centimetres of horizon is typically dominated by dark brown, crumb-structured, stone free soils followed by a brownish grey clay loam that spans approximately 13 centimetres. Subterraneous to these layers is blocky clay that is dark brown and 23-31 centimetres in depth (Chapman & Putnam 1984: 175).

The single most important environmental feature necessary for extended human occupation is potable water. As such, proximity to water is regarded as a useful index for the determination of potential for the presence of archaeological resources. Mimico Creek and several tributaries are found in south end of the study area.

These environmental characteristics would have provided an ideal environment for both temporary and permanent settlement throughout the pre-and post-contact periods. These water sources would have served as important pre- and post-contact transportation routes as well as sources of potable water and riverine resources.

During the 19th and 20th century, rapid deforestation resulted in significant land clearance across Toronto Gore Township and over time, the once diverse forest life and wide range of tree species and natural resources would have also been depleted as agricultural and modern residential and commercial development continued. As a result of continuing urban development, this part of southern Ontario is almost completely deforested today.

1.3.2 Previous Archaeological Work

To inform the current Stage 1 archaeological assessment and further establish the archaeological context of the study area, a search of the OASD was conducted by AECOM to determine if any previous archeological work has been completed within the current study area or within 50m of the study area boundaries.

Table 2: Previous Archaeological Assessments

Date	Report Title	Author	PIF Number
2020	*Stage 1 Archaeological Assessment, Mimico Creek Erosion Control Projects at Rena Road (Area 1) and from Etude Drive to Derry Road East (Area 2a-b) in the City of Mississauga, Historically Located in Lots 13 and 14, Concession 6 (East of Centre Street), Township of Toronto North, County of Peel; and Lot 11, Concession 7 and 8, Township of Gore, County of Peel, Ontario*	Wood.	P354-0044-2020

2017	*Archaeological Assessment (Stage 1-2) in the City of Mississauga, Peel Region, Malton Greenway Sanitary Infrastructure Protection, Lot 11, Concession VII SD, Geographic Township of Toronto Gore, Historic Peel County.*	TRCA	P303-0406-2016

Two reports are found within the current study area. A Stage 1-2 archaeological assessment report, completed by the Toronto and Region Conservation Authority (TRCA 2017), covers a portion of the southern end of the study area as part of Malton Greenway Sanitary Infrastructure Protection project. The results of the Stage 1-2 assessment concluded that no further work was required in those areas. A Stage 1 assessment completed by Wood in 2020 is also found in the southern end of the study area and recommended further assessment prior to any ground disturbing activities (Wood 2020).

To the best of our knowledge, there are no other reports concerning archaeological work conducted within or in close proximity (i.e. within 50m) of the study area; however, it should be noted that the MHSTCI does not maintain a database of all properties that have had past archaeological investigations and searches of the MHSTCI' public register do not always result in a complete listing of all archaeological work conducted in a given area. In consequence, in some cases the only way a consulting archaeologist will know that a past assessment has been conducted in a given area is if they have personal knowledge of it, or if the assessment resulted in the discovery and registration of one or more archaeological sites.

1.3.3 Known Archaeological Sites

AECOM conducted a data search of the OASD to determine if any registered archaeological sites are located within the study area as well as within 1 km of the current study area boundaries. This search resulted in the identification of one registered archaeological site. Site AkGv-345 is a pre-contact Indigenous site of unknown type, located approximately 1 km south of the study area. No further work is recommended for this site.

Information concerning specific site locations is protected by provincial policy and is not fully subject to the *Freedom of Information and Protection of Privacy Act (FIPPA)*. The release of such information in the past has led to looting or various forms of illegally conducted site destruction. Confidentiality extends to all media capable of conveying location, including maps, drawings, or textual descriptions of a site location. The MHSTCI will provide information concerning site location to the party or an agent of the party holding title to a property, or to a licensed archaeologist with relevant cultural resource management interests.

1.3.4 Existing Conditions

The study area currently consists of portions of the road and rights-of-way, concrete walkways between residential homes, as well as large areas of forested and manicured lawns, a park and school playground. The walkways are in three sections found between Etude Drive and Capricorn Crescent, Michaud Avenue and Capricorn Crescent and Capricorn Crescent and Justine Road.

2. Analysis and Conclusions

2.1 Determination of Archaeological Potential

Archaeological potential is established by determining the likelihood that archaeological resources may be present on a subject property. Criteria commonly used by the MHSTCI to determine areas of archaeological potential are listed in Section 1.3.1 of the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011). Distance to modern or ancient water sources is generally accepted as the most important element for past human settlement patterns and when considered alone may result in a determination of archaeological potential. In addition, any combination of two or more of the listed criteria indicates archaeological potential.

Based on a review of the historical, environmental, and archaeological context of the study area, it has been determined that potential for the recovery of pre- and post-contact First Nation and 19th century Euro-Canadian archaeological resources within the study area is high based on the presence of the following features:

- Proximity to previously identified archaeological sites;
- Distance to various types of water sources (Mimico Creek);
- Soil texture and drainage;
- Glacial geomorphology, elevated topography and the general topographic variability of the area;
- Resource areas including food or medicinal plants, scarce raw materials and early Euro-Canadian industry; and
- Areas of early Euro-Canadian settlement and early transportation routes.

Certain features indicate that archaeological potential has been removed, such as land that has been subject to extensive and intensive deep land alterations that have severely damaged the integrity of any archaeological resources. This includes landscaping that involves grading below the topsoil level, building footprints, quarrying and sewage and infrastructure development (Ontario Government 2011).

2.2 Conclusions

AECOM's Stage 1 background study of the Malton Flood Mitigation study area has determined that the potential for the recovery of archaeological resources is moderate to high, given the proximity of the study area to previous archaeological sites, the proximity to Mimico Creek, and areas of early Euro-Canadian settlement and industry. Areas where archaeological potential has been removed include areas previously assessed as disturbed, areas determined to have been subject to extensive land alterations that have significantly compromised the recovery of archaeological materials and constructed roadways. All potentially undisturbed areas must be subject to Stage 2 field survey.

3. Recommendations

The Ministry of Heritage, Sport, Tourism and Heritage Industries is asked to accept this report into the Ontario Public Register of Archaeological Reports thereby concurring with the recommendations presented herein. As further archaeological assessment is required, archaeological concerns for the Malton Flood Mitigation project in the City of Mississauga, Ontario have not been fully addressed.

1) The areas marked in solid and hatched green in **Figure 6** require a Stage 2 archaeological assessment. The Stage 2 assessment should be completed in accordance with *Section 2.1 Property Survey* of the *Standards and Guidelines for Consultant Archaeologists* (Ontario Government 2011).

2) Areas marked in solid and cross hatched blue are permanently low and wet and no further work is required (**Figure 6**).

3) Areas marked in solid and hatched red have been determined to be deeply disturbed and no further archaeological assessment is required.

4. Advice on Compliance with Legislation

This report is submitted to the Ontario Minister of Heritage, Sport, Tourism and Heritage Industries as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Heritage, Sport, Tourism and Heritage Industries, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.

It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with Section 48(1) of the *Ontario Heritage Act*.

Archaeological sites recommended for further archaeological fieldwork or protection remain subject to section 48 (1) of the *Ontario Heritage Act* and may not be altered, or have artifacts removed from them, except by a person holding an archaeological license.

The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force in 2012) require that any person discovering human remains must notify the police or coroner and the Registrar of Burial Sites, War Graves, Abandoned Cemeteries, and Cemetery Closures.

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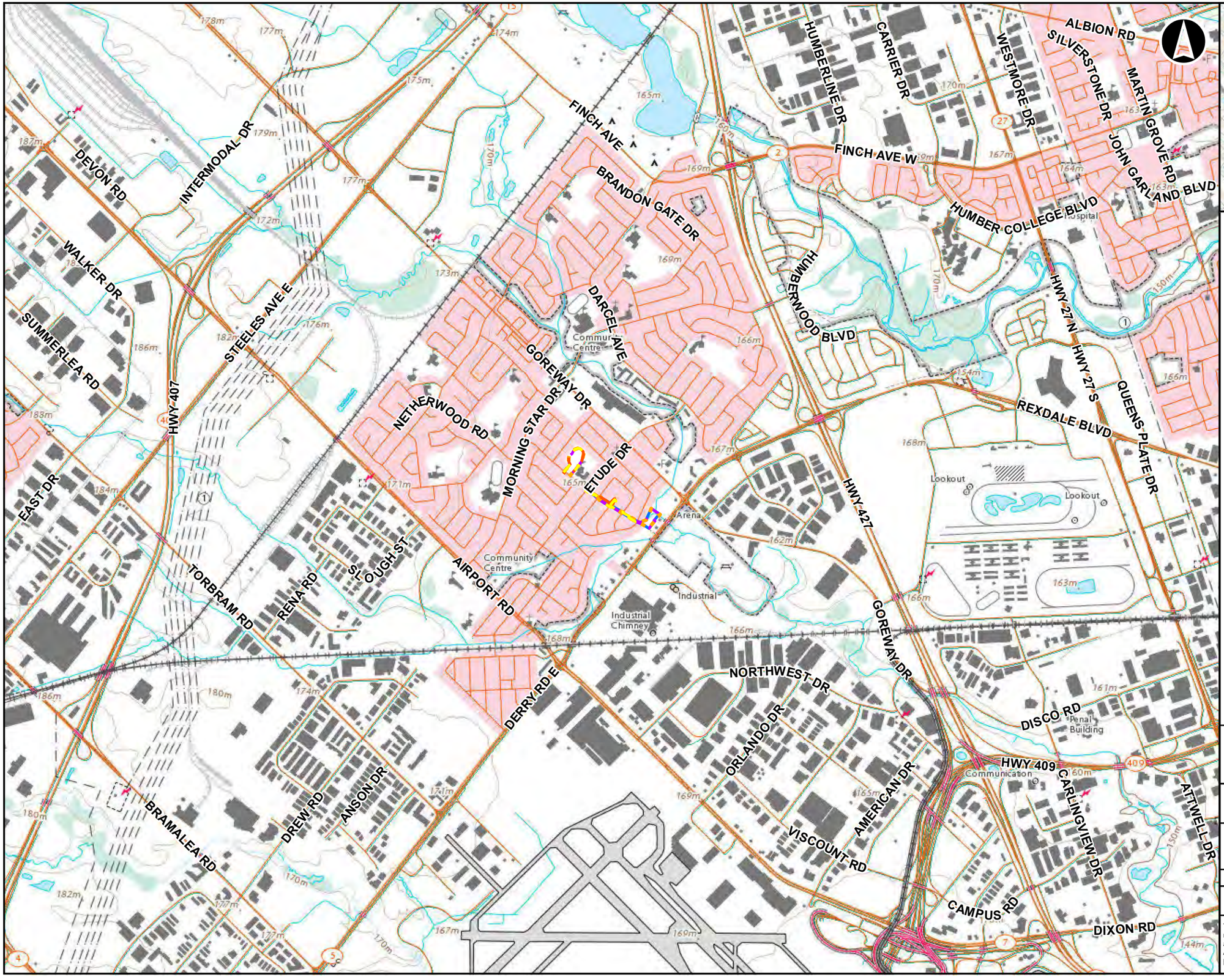
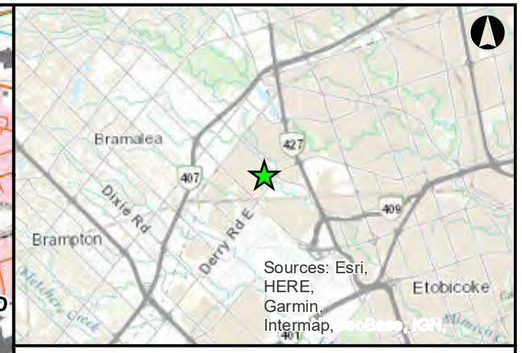
6. Figures

All figures pertaining to the Stage 1 archaeological assessment for the Malton Flood Mitigation project in the City of Mississauga, Ontario are provided on the following pages.





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- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

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Malton Flood Mitigation Study
Etude Drive to Justine Drive

Regional Map

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P#: 60622028		Figure 1

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Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives

Dec, 2020	1:2,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF, ESRI
P#: 60622028		**Figure 2**

AECOM

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Treaty No. 18, 1818

Treaty No. 19, 1818

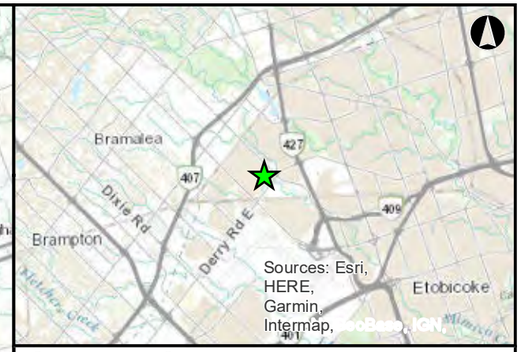
Treaty No. 13, 1805

Williams Treaty with the Chippewa, 1923

Treaty No. 13A, 1805

Treaty No. 3, 1792

Treaty No. 3.75, 1795



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- Treaty No. 18, Oct. 17th, 1818, Chippewas
- Treaty No. 19, Oct. 28th, 1818, Chippewas
- Treaty No. 3, Dec. 2nd, 1792, Mississaugas
- Williams Treaty, Oct. 31st, 1923, Chippewas

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Malton Flood Mitigation Study
Etude Drive to Justine Drive

Treaties and Purchases

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P#: 60622028		**Figure 5**

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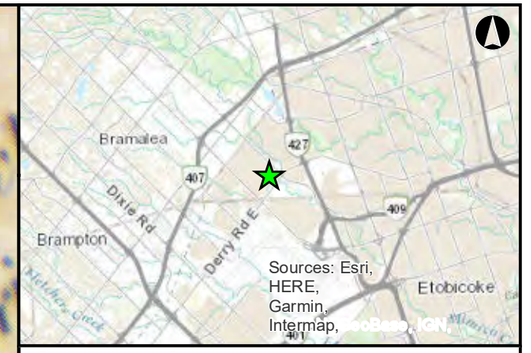
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, Kong), (c) OpenStreetMap contributors, and the GIS User Community



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Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives, 1859

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P#: 60622028		**Figure 3**

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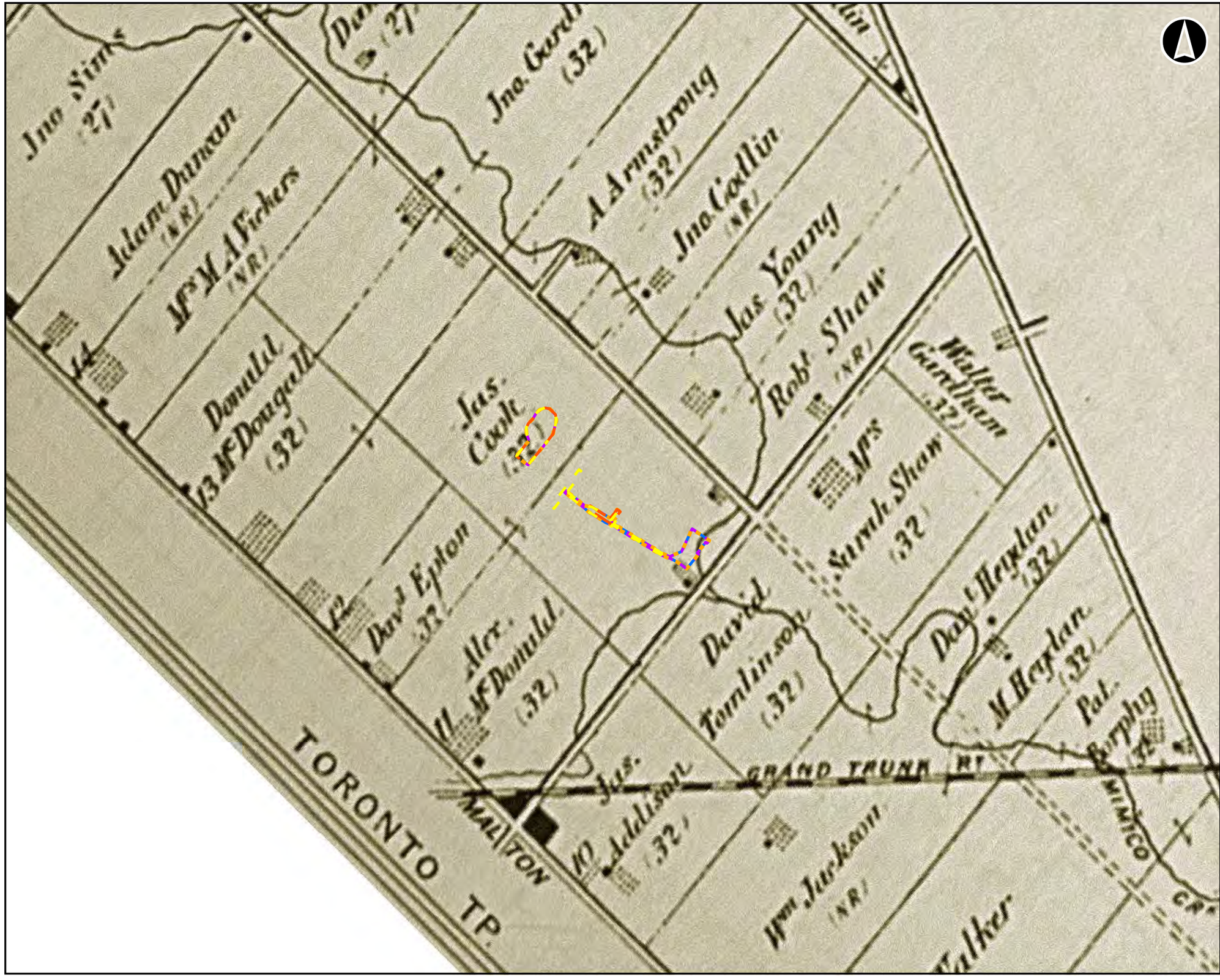

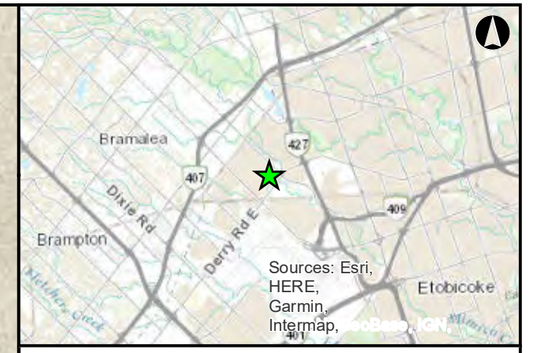

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- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

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Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives, 1877

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P#: 60622028		**Figure 4**

AECOM

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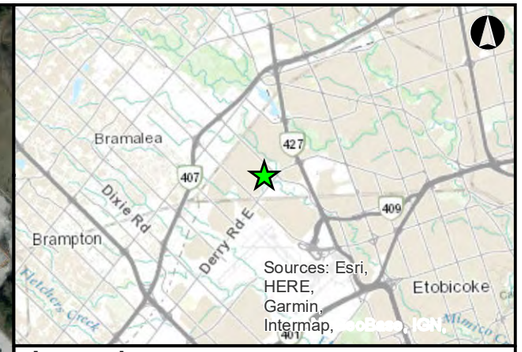

Legend

- Project Location
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- Alternative 5: Park Storage, Additional Storage & Regrade Easement
- Disturbed, No Further Work Required
- Stage 2 Archaeological Assessment
- Wet, No Further Work Required

Previous Work

- Sloped, No Further Work Recommended (Wood, 2020)
- Stage 2 Test Pitting Recommended (Wood, 2020)
- Standing Water, No Further Work Recommended (Wood, 2020)
- Strategically Tested - Disturbed (TRCA, 2017)
- Permanently Wet Area (TRCA, 2017)

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Malton Flood Mitigation Study
Etude Drive to Justine Drive

Stage 1 Archaeological Results

Dec, 2021	1:2,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF, ESRI
P#: 60622028		**Figure 6**

AECOM

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Date Saved: 12/20/2021 10:13:14 AM User: Thomas.Mockler.Swaffield

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As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges.

From high-performance buildings and infrastructure, to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated and vital. A Fortune 500 firm, AECOM companies had revenue of approximately US$19 billion during the 12 months ended June 30, 2015.

See how we deliver what others can only imagine at aecom.com and @AECOM.

Contact
Glenn Kearsley, MA
Project Archaeologist
T 647-274-6772
E glenn.kearsley@aecom.com

AECOM

Appendix G

Cultural Heritage Memorandum - Desktop Review

AECOM Imagine it. Delivered.

December 14, 2020

Prepared For:
City of Mississauga

Prepared By:
AECOM
410 – 250 York Street, Citi Plaza
London, ON, Canada N6A 6K2
www.aecom.com

Cultural Heritage Memorandum- Desktop Review

Malton Flood Mitigation Study – Etude Drive to Justine Drive

1.0 Project Context

1.1 Introduction

AECOM was contracted by the City of Mississauga to conduct a Cultural Heritage Memorandum as part of the Schedule B Municipal Class Environmental Assessment (MCEA) being undertaken for the Malton Flood Mitigation Study – Etude Drive to Justine Drive. This project is being conducted to mitigate urban flooding risks to the people, property and infrastructure in the area of Etude Drive and Justine Drive in the community of Malton, Ontario.

The study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts. The MCEA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution that will be presented at a Public Information Centre, proposed for January 2021. Over the coming months project team environmental specialists will be walking the study area and making notes to document existing conditions to support the evaluation of alternative solutions.

Five alternatives have been identified as part of the Malton Flood Mitigation Study (**Appendix A: Figure 1** and **Figure 2**):

- Alternative 1: Replace STM & Outlet Upgrades
- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades
- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades

- Alternative 4: Park Storage & Bioswale Upgrades
- Alternative 5: Park Storage, Additional Storage, & Regrade Easement

All five alternatives extend north from Mimico Creek south of Justine Drive, and follow Honeysuckle Avenue and the pedestrian walkway, north from Justine Drive to Etude Drive. Alternatives 2-5 also incorporate the Park Storage element, located within Ridgewood Park north of Ridgewood Public School on the east side of Cambrett Drive.

1.2 Study Area

The Study Area includes Alternatives 1-5 and those properties adjacent to the alternatives. The Study Area is located on Lots 11 and 12, Concession VII, east of the historic Village of Malton, in the Geographic Township of Toronto Gore, now part of the City of Mississauga.

The Study Area is located roughly between Derry Road East and Joliffe Avenue west of Goreway Drive. Two branches of Mimico Creek extend roughly east and west across the southern end of the Study Area, in a wooded ravine north of Derry Road East. The Study Area consists primarily of single-detached, one- and two-storey houses. Roads within the Study Area are primarily two-lane residential streets; pedestrian walkways connect Etude Drive and Capricorn Crescent, and Michaud Avenue to Justine Drive. Ridgewood Public School is located on the east side of Cambrett Drive, north of Etude Drive. Ridgewood Park is located to the north of the school and consists of an open field with an oval-shaped footpath and children's playground adjacent to Cambrett Drive.

1.3 Purpose of the Cultural Heritage Memorandum

The purpose of this Cultural Heritage Memorandum is to summarize the results of a desktop review for the Study Area consisting of the collection of background information, including a detailed review of previously identified built heritage resources and cultural heritage landscapes. This report examines only the potential cultural heritage value associated with above-ground resources.

2.0 Methodology

Following the process for the identification of above-ground cultural heritage resources outlined in the Ministry of Heritage, Sport Tourism, and Cultural Industries (MHSTCI) *Criteria for Evaluation Potential for Built Heritage Resources and Cultural Heritage Landscapes* (hereafter MHSTCI Criteria Checklist), the following steps were taken:

- A review of municipal, provincial, and federal heritage registers and inventories, including the City of Mississauga's *Heritage Register for Mississauga* (June 2020)

- A review of historical maps including *Tremaine's Map of the County of Peel, Canada West* (George M. Tremaine, 1859), and the *Illustrated Historical Atlas of the County of Peel* (J.H. Pope,1877)
- A review of several online resources including:
  - The inventory of Ontario Heritage Trust easements
  - The Ontario Heritage Trust's *Ontario Heritage Plaque Guide*
  - The Ontario Heritage Trust's *Ontario Heritage Act Register*
  - Parks Canada's *Canada's Historic Places* website
  - Parks Canada's *Directory of Federal Heritage Designations*
  - Canadian Heritage River System
  - United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Sites

Within the Study Area, a cultural heritage desktop review study was conducted to gather information about previously identified and potential cultural heritage resources within or adjacent to the proposed Alternatives. Use of the 40-year rule, the MHSTCI Criteria Checklist, a desktop review, and professional judgement were used to screen for potential cultural heritage resources within the vicinity of the five Alternatives. For the purpose of this Memorandum, above-ground cultural heritage resources can be categorized as either:[1]

- **Previously Identified Cultural Heritage Resource** – means built heritage resources or cultural heritage landscapes that have an existing level of municipal, provincial, or federal heritage protection, designation, or recognition.

- **Potential Cultural Heritage Resource** –means properties identified during the field review that include a building or structure that appears to be older than 40 years of age, that, informed by the MHSTCI Criteria Checklist and combined with professional judgement, have been determined in this study to have potential cultural heritage value or interest.

This Cultural Heritage Memorandum has been completed by a team of AECOM's Cultural Resource Management staff including Tara Jenkins, C.A.H.P. (Cultural Heritage Specialist), and Liam Smythe (Cultural Heritage Specialist), and Adria Grant, C.A.H.P. (West and Ontario Department Manager, Impact Assessment and Permitting).

3.0 Historical Overview

The community of Malton was established about 1819 as a "service centre" for travellers along the plank road to the Town of York (now the City of Toronto). The settlement developed around the four corners of Derry and Airport roads. Within a decade of its inception, Malton had several shops;

[1] Archaeological resources are not included in this report.

including a cobbler's shop and clothier, as well as a hotel. Stagecoach service to the City of Toronto in the 1830s, enabled Malton to grow into an important community centre. The village takes its name from Malton, England, from which many of its early settlers came.

Malton's first major building boom came in the 1850s, when the Grand Trunk Railway was constructed through the community. By this point the village had a population of 350 persons, and its first post office was established in 1856. In 1854, the Great Western Railway was constructed through the village, and it became an important shipping centre for products of the nearby mills and farms. That same year, Malton was surveyed on 100 acres of land at the northwest corner of Derry and Airport Roads; now referred to as "Old Malton" (Heritage Mississauga 2018).

Malton was originally designated as the seat of Peel County in 1859, however the larger Town of Brampton contested the decision and became the county seat a year later. One of the largest industries in Malton during the 1860s and 1870s was a carriage works operated by Joseph Foster. It was later purchased by Hugh McCourt and operated until around 1900 (Martin 1967).

The 1859 Tremaine Map (**Appendix A: Figure 3**), shows Lot 12 owned by Thomas Mullolland and Lot 11 by Hugh Cook. The Study Area does not overlap any historical features except Mimico Creek. Malton is west of the Study Area. The 1877 Illustrated Historical Atlas Map (**Appendix A: Figure 4**), shows that Lots 12 and 11 are owned by Jason Cook. The Study Area overlaps an orchard in Lot 11 associated with a homestead that was owned by Cook and situated adjacent to what is known present-day as Derry Road East.

Malton remained a largely rural community until the 20th century. In 1914, Malton became a Police Village. In 1937 Malton shifted from an agricultural to an industrial economy when the Federal Government purchased 1,700 acres of farmland for the construction of an international airport. Three runways were constructed, and a farmhouse was converted into a makeshift passenger terminal. Named for the nearby village, Malton Airport began operation in 1939, and would be expanded many times during the later twentieth century. It was renamed Toronto International Airport in 1960, and is now Lester B. Pearson International Airport. During the Second World War, the aircraft industry became a major employer in Malton when Victory Aircraft Limited was established to manufacture Lancaster Bombers for the war effort. The company was later purchased by A.V. Roe Canada Limited, and manufactured the well-known Avro Arrow supersonic interceptor (Cooper 1967).

The 1954 aerial photograph (**Appendix A: Figure 5**) shows the Study Area consisting of agricultural land and is still on the outskirts of the settlement of Malton. Mimico Creek is clearly defined in the landscape. The aerial photograph shows that the farmstead in Lot 11, as noted in 1877, is still extant directly adjacent to the Study Area.

After the 1950s the character of the area changed and was developed as a suburb to the City of Mississauga. The Study Area and its surrounding environment is urban and has been developed for

residential subdivisions comprised primarily of single-detached, one and two-storey houses. The 19th century farmstead in which the south portion of the Study Area overlapped is no longer extant.

In 1968, Malton and Toronto Township became part of the Town of Mississauga, which was renamed the City of Mississauga in 1974. Today, Malton is considered a neighbourhood in the north-eastern part of the City of Mississauga.

3.1 Summary of Historical Overview

Based on the background research and historical map review, it is not anticipated that there are potential cultural heritage resources located within or adjacent to the Study Area.

4.0 Data Collection Results

Based on the review of the City of Mississauga's *Heritage Register for Mississauga* (June 2020), there are no previously identified cultural heritage resources within or adjacent to Alternatives 1-5. In addition, there are no historical features within the vicinity of the Study Area shown on the 1859 or 1877 historical maps that are still extant within or adjacent to the Study Area. The following provides a summary of the assessment results of this Cultural Heritage Memorandum:

- Alternative 1: Replace STM & Outlet Upgrades: no above-ground cultural heritage resources identified within or adjacent to Alterative 1, therefore no mitigation measures required.

- Alternative 2: Park Storage, Relief STM, Regrade Easement & Outlet Upgrades: no above-ground cultural heritage resources identified within or adjacent to Alterative 2, therefore no mitigation measures required.

- Alternative 3: Park Storage, Relief STM, Bioswale & Outlet Upgrades: no above-ground cultural heritage resources identified within or adjacent to Alterative 3, therefore no mitigation measures required.

- Alternative 4: Park Storage & Bioswale Upgrades: no above-ground cultural heritage resources identified within or adjacent to Alterative 4, therefore no mitigation measures required.

- Alternative 5: Park Storage, Additional Storage, & Regrade Easement: no above-ground cultural heritage resources identified within or adjacent to Alterative 5, therefore no mitigation measures required.

5.0 Conclusions and Recommendations

5.1 Conclusion

This Cultural Heritage Memorandum was prepared in order to recognize any previously identified cultural heritage resources on the City of Mississauga's *Heritage Register for Mississauga* (June 2020), or potential cultural heritage resources within the vicinity of the five Malton Flood Mitigation Study alternatives. Based on the results of the desktop review, review of the City of Mississauga's *Heritage Register for Mississauga* (June 2020), and review of historic mapping, there are no previously-identified or potential cultural heritage resources located within or adjacent to Alternatives 1-5.

5.2 Recommendation

The following recommendation has been developed based on the results of this Cultural Heritage Memorandum:

1. This Cultural Heritage Memorandum should be submitted to the heritage staff at the City of Mississauga and the Ministry of Tourism, Culture, and Sport for review.

7.0 References

Cooper, Russel A.
1967 "From Stagecoaches to Jets and GO", *A History of Peel County to Mark its Centenary.* Brampton: Charters Publishing

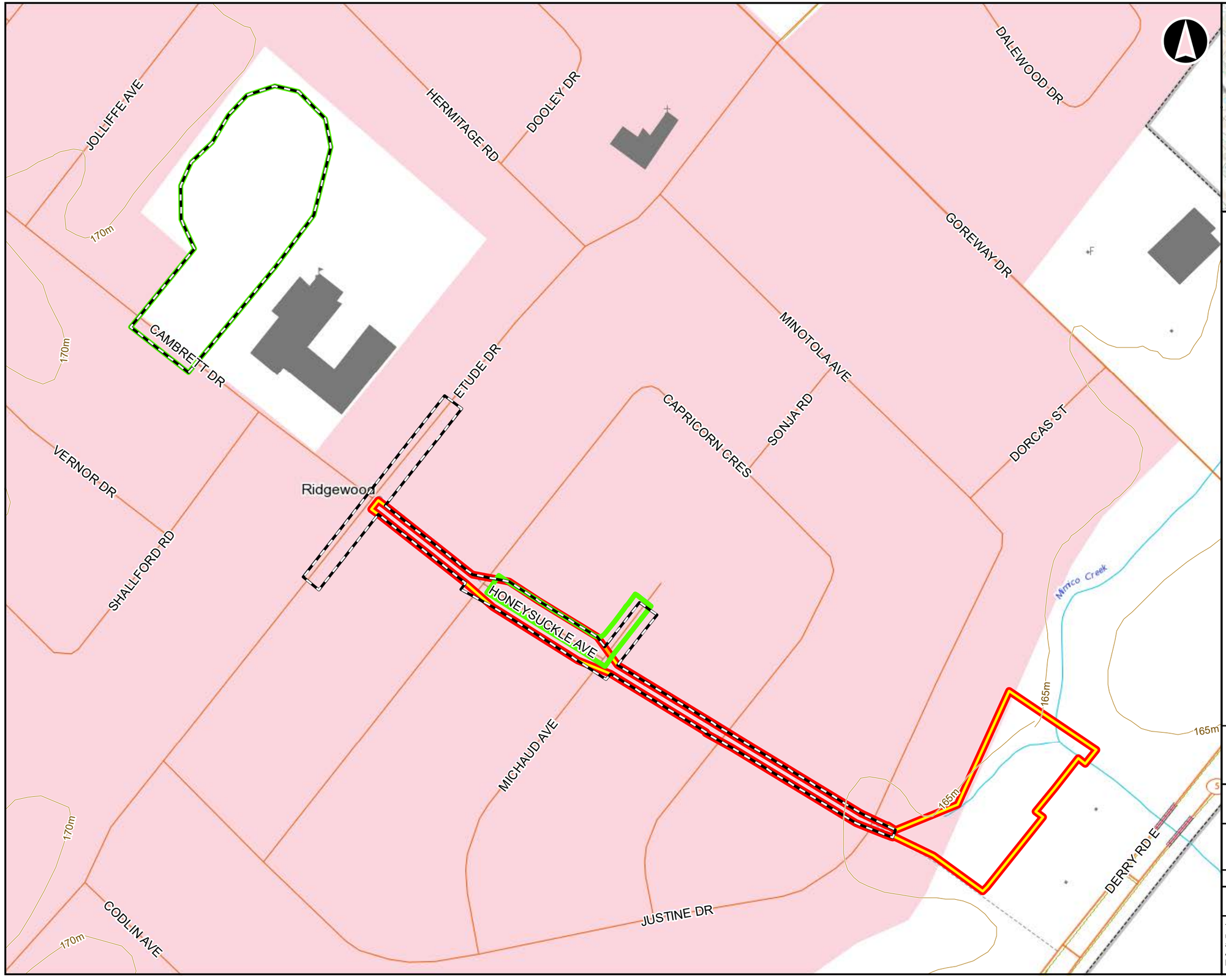
Heritage Mississauga
2018 A Heritage Tour of Malton, Est. 1820. Available online at: https://heritagemississauga.com/wp-content/uploads/2018/11/Malton-Heritage-Tour.pdf

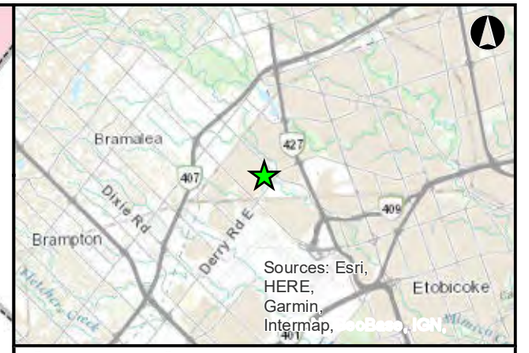
Hicks, Kathleen
2005 *Malton: From Farms to Flying.* Mississauga, Ontario: Friends of the Mississauga Library

Martin, Allan A.
1967 "Toronto Township with its Many Communities", *A History of Peel County to Mark its Centenary.* Brampton: Charters Publishing

Ministry of Heritage, Sport, Tourism, and Culture Industries
2016 *Criteria for Evaluation Potential for Built Heritage Resources and Cultural Heritage Landscapes, A Checklist for the Non-Specialist*. PDF available online.

Appendix A: Cultural Heritage Mapping





Legend

- Project Location
- Alternative 1: Replace STM
- Alternative 2: Park Storage, Relief STM & Regrade Easement
- Alternative 3: Park Storage, Relief STM & Bioswale
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

0 50 100
Metres

Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives

Dec, 2020	1:2,500 * when printed 11"x17"	Datum: NAD 1983 UTM Zone 17N Source: MNRF, ESRI
P#: 60622028		**Figure 1**

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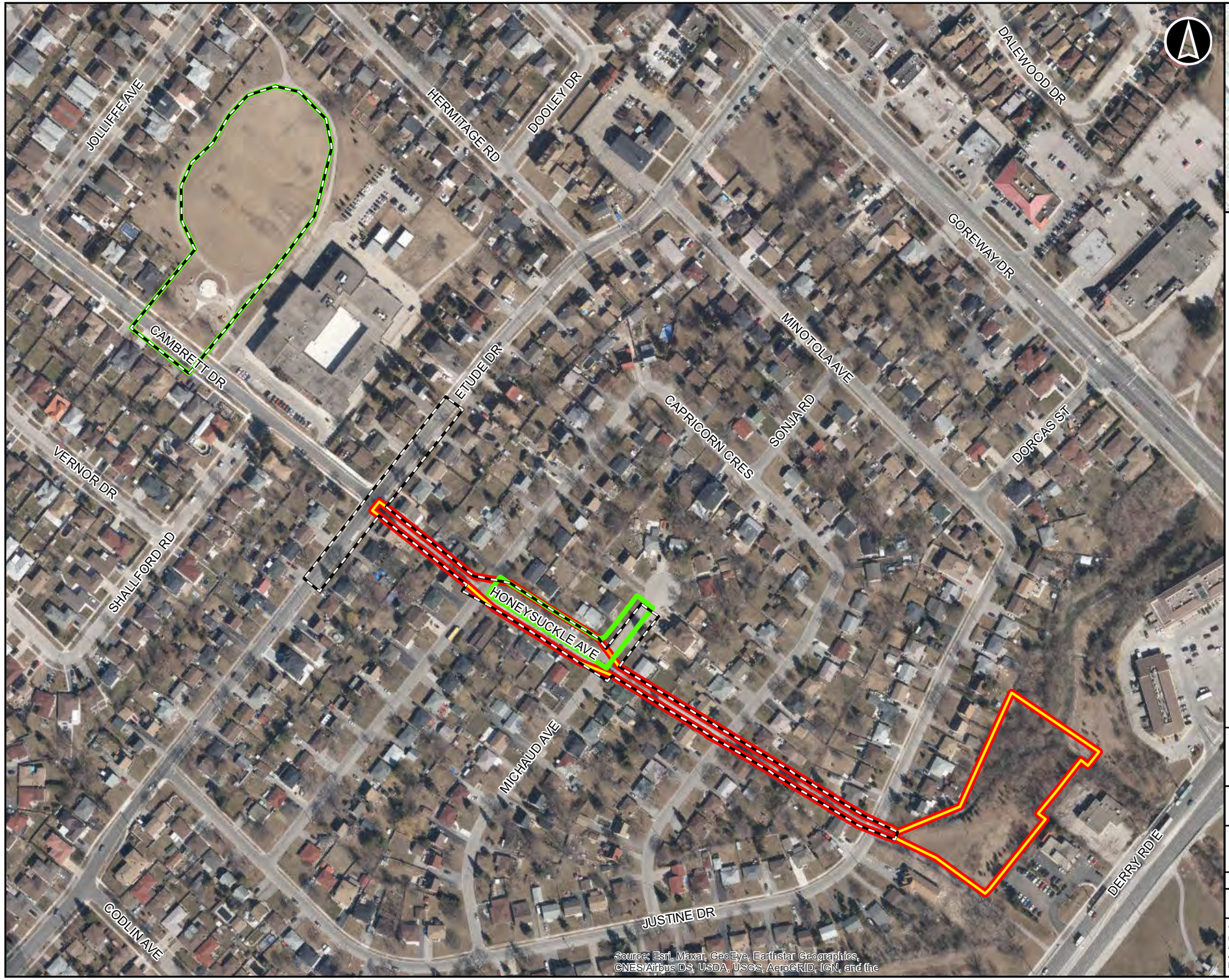

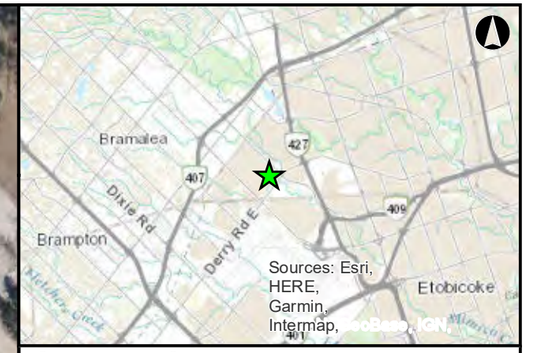

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- Alternative 2: Park Storage, Relief STM & Regrade Easement
- Alternative 3: Park Storage, Relief STM & Bioswale
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

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Metres

Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives

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P#: 60622028		**Figure 2**

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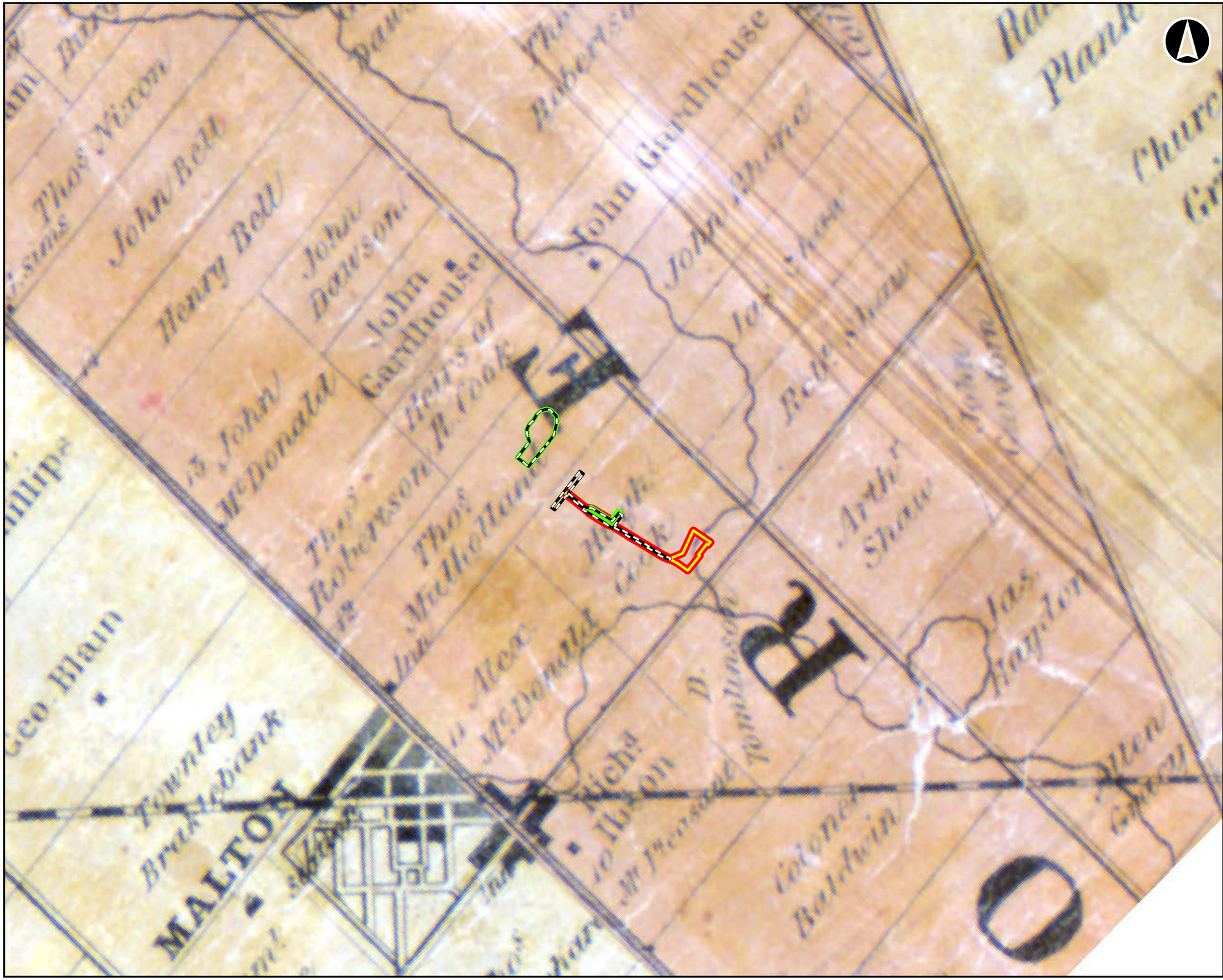

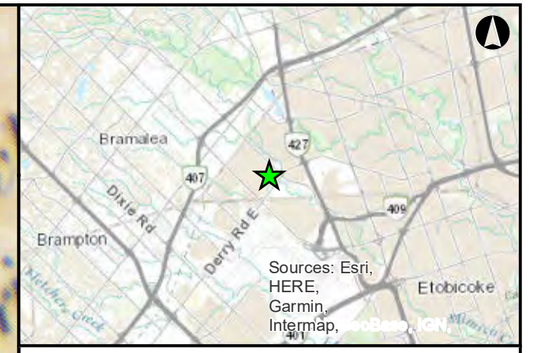

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- Alternative 3: Park Storage, Relief STM & Bioswale
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

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Metres

Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives, 1859

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P#: 60622028		
AECOM		**Figure 3**

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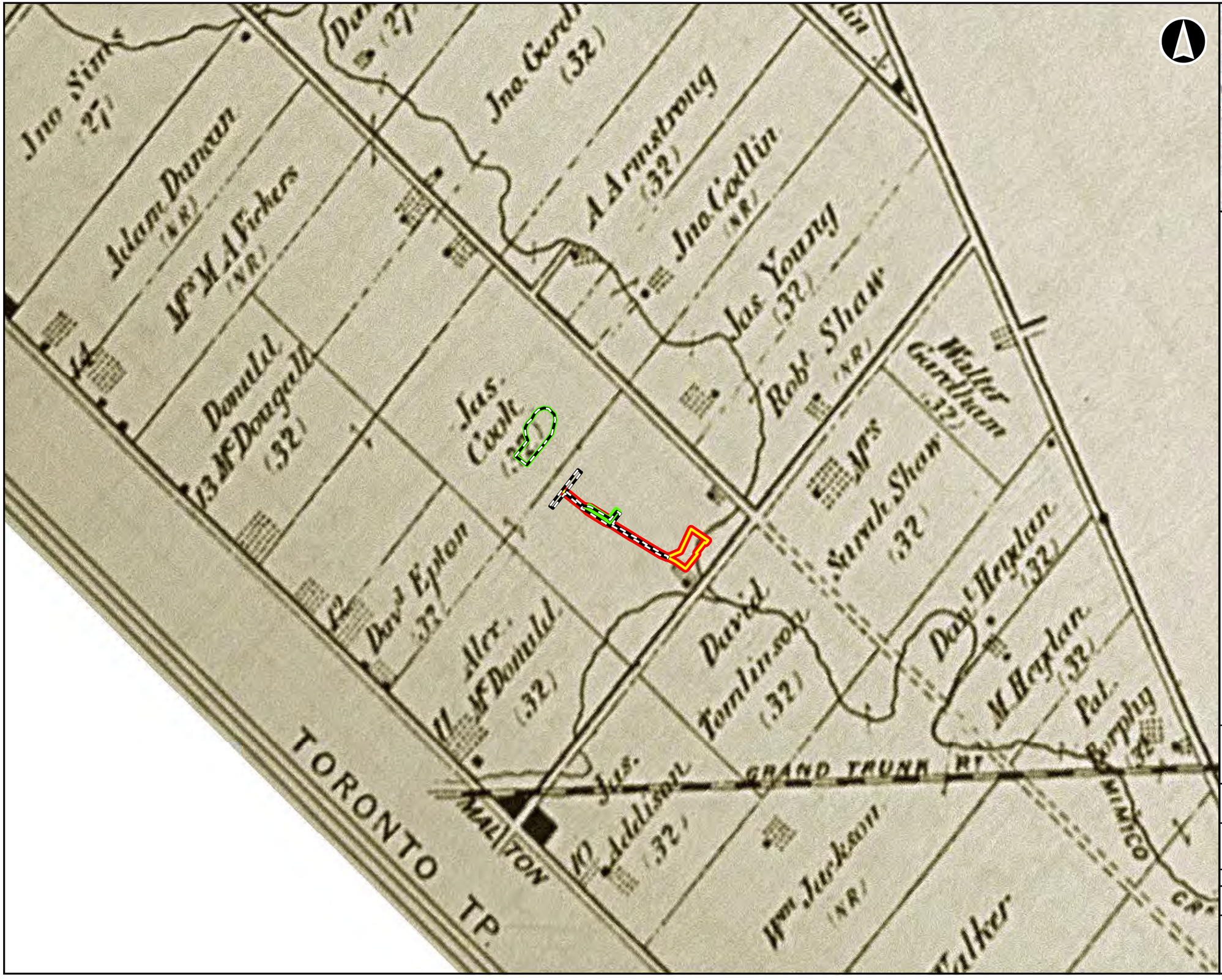

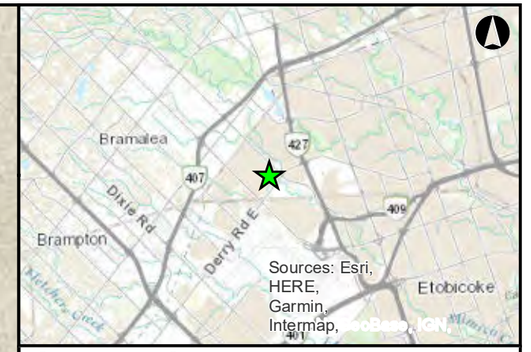

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- Project Location
- Alternative 1: Replace STM
- Alternative 2: Park Storage, Relief STM & Regrade Easement
- Alternative 3: Park Storage, Relief STM & Bioswale
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

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Metres

Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives, 1859

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P#: 60622028		**Figure 4**

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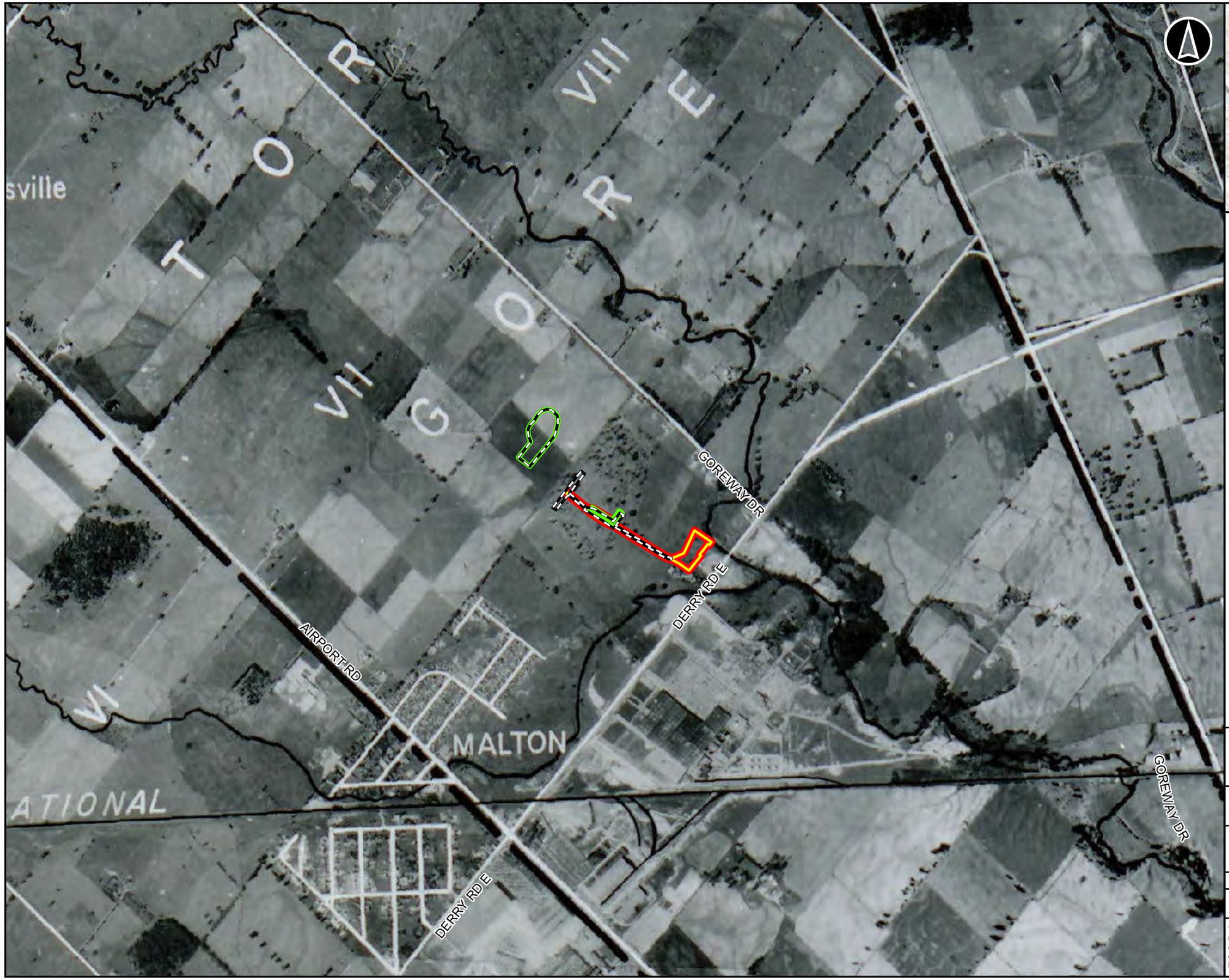

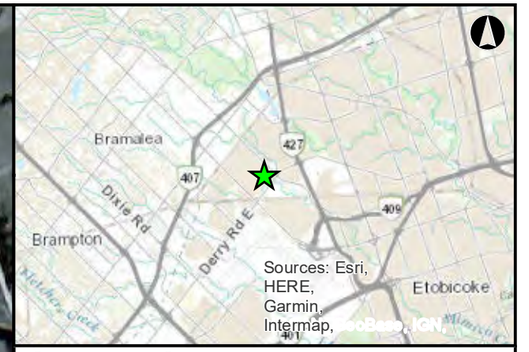

Legend

- Project Location
- Alternative 1: Replace STM
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- Alternative 3: Park Storage, Relief STM & Bioswale
- Alternative 4: Park Storage & Bioswale
- Alternative 5: Park Storage, Additional Storage & Regrade Easement

0 50100 200 300 400 500 600 700
Metres

Malton Flood Mitigation Study
Etude Drive to Justine Drive

Study Area Alternatives, 1954

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P#: 60622028		**Figure 5**

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Appendix H

Public Consultation Record

AECOM

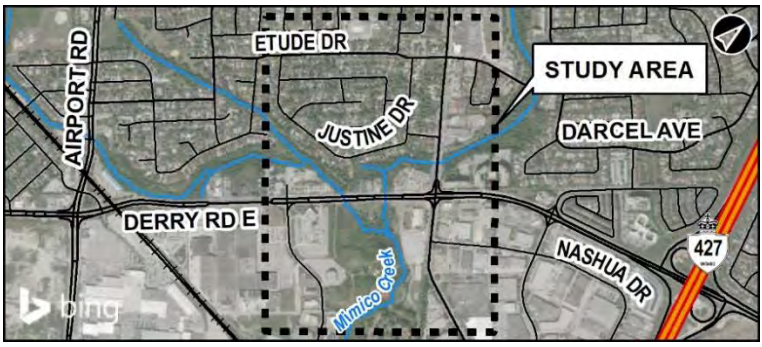
Notifications

CITY OF MISSISSAUGA – NOTICE OF STUDY COMMENCEMENT

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

WHAT?

- The City of Mississauga has initiated a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



WHY?

- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

HOW?

- The Study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution that will be presented at a Public Information Centre.
- Over the coming months project team environmental specialists will be walking the study area and making notes to document existing conditions to support the evaluation of alternative solutions.
- A Project File documenting the Class EA process will be available for public review at the end of the study.

GET INVOLVED!

- The City would like anyone with an interest in the Study to have an opportunity to provide input and help inform the decision-making process.
- A Public Information Centre (PIC) will be held to present the study findings and the alternative solutions being considered, including the preliminary preferred solution. The details of the PIC will be advertised closer to the date.
- The City may also hold a community site walk prior to the PIC to further explain the project and receive local input. Details on the community site walk will be provided to those who request to be added to the study mailing list.
- If you have comments or questions, require further information or would like to be added to the study mailing list to receive future notifications, please contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
201 City Centre Dr, Suite 800
Mississauga, ON L5B 2T4
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.
5080 Commerce Blvd
Mississauga, ON L4W 4P2
(416) 452-5390
derek.gray@aecom.com

This notice was issued March,12, 2020

This notice signals the commencement of the Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

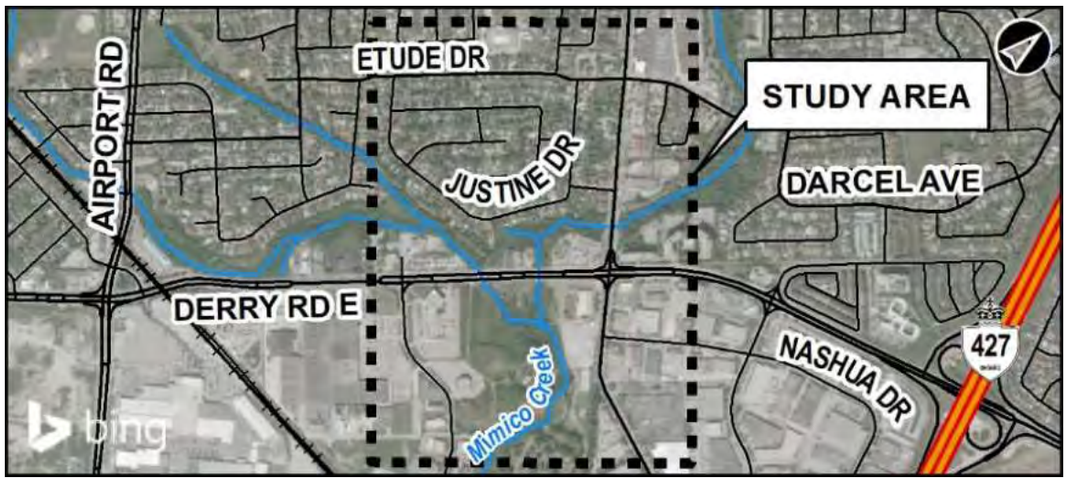
Personal information is collected under the authority of the Environmental Assessment Act and will be used in the assessment process. With exception of personal information, all comments shall become part of the public records. Questions about this collection should be directed to the Project Manager listed above.

CITY OF MISSISSAUGA – NOTICE OF PUBLIC INFORMATION CENTRE

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

What?

- The City of Mississauga is undertaking a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



Why?

- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

How?

- The Study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution.
- A Project File documenting the Class EA process will be available for public review at the end of the study.

Public Consultation

- The City would like anyone with an interest in the Study to have an opportunity to provide input and help inform the decision-making process.
- An online Public Information Centre (PIC) will be posted to the City's webpage starting June 16, 2023 to present the findings of the Class EA study. The PIC will be a narrated presentation that will review the study's purpose, work completed to date and present the alternatives, including the preliminary preferred solution.
- The PIC will also summarize the feedback received from residents, how impacts are being addressed, next steps and how to stay engaged. Feedback is encouraged and comments are requested by **July 19, 2023**.
- The PIC materials will be available on the project website: **www.mississauga.ca/malton-flood-mitigation**
- If you have comments or questions, require further information or would like to be added to the study mailing list to receive future notifications, please contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.
5080 Commerce Blvd
Mississauga, ON L4W 4P2
derek.gray@aecom.com

This notice signals the Notice of Public Information Centre for this Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

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This notice first issued on **June 14, 2023**.

City of Mississauga
Transportation and Works Department
201 City Centre Drive, Suite 800
MISSISSAUGA, ON L5B 2T4
mississauga.ca

April 26, 2021

Resident Name
Address Line 1
Address Line 2
Address Line 3

Attention: **Resident Name**

Re: **Potential Impacts of Storm Sewer Culvert Construction along Walkway**
Malton Flood Mitigation Study – Etude Drive to Justine Drive
Schedule 'B' Municipal Class Environmental Assessment

Introduction

We would like to provide a project update and make you aware of potential impacts to City-owned lands adjacent to your property beside the pedestrian walkway, within the road boulevard or beside the outlet structure and channel. These impacts include the **possible removal of illegal encroachments such as trees, shrubs, fences, gardens, and other objects that are located on City-owned lands**.

The pedestrian walkway area including lands extending beyond the walkway's existing chain-link fence are City-owned lands and there are many encroachments within this area.

Further details are provided in this letter including a list of specific potential impacts identified adjacent to your property.

Study Background

The City of Mississauga is undertaking a Schedule 'B' Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community. The project area is shown in the enclosed **Figure 1**.

Preliminary Preferred Solution

The study has identified a preliminary preferred solution that would include the following:

- Construction of a stormwater box culvert (approx. 1.7m high x 2.7m wide) beneath the pedestrian walkway from Etude Drive to Mimico Creek and associated restoration;
- Full re-construction of the pedestrian walkway and relocation of the fence to the City's property line;
- Installation of additional catchbasins along the walkway and adjoining roadways and other potential improvements to reduce flooding; and
- The expansion of the outlet structure and channel south of Justine Drive to Mimico Creek.

This solution would significantly reduce the potential impacts of flooding for properties adjacent to the walkway and the surrounding area.

The renderings in the enclosed **Figure 2** show the current condition and the potential future walkway after construction of the box culvert. At this time these renderings are representative of the Preliminary Preferred Solution and are likely subject to some change as the Environmental Assessment is completed followed by the detailed design and implementation by the future construction contractor. The intent of the renderings are to demonstrate the full extent of the work and its potential impact.

SAMPLE

Proposed Plan for Encroachments

An encroachment is an object (i.e. fence, trees, or other objects) that illegally extends onto property owned by another person or party.

The pedestrian walkway area including lands extending beyond the walkway's existing chain-link fence are City-owned lands and there are many encroachments within this area. **Figure 2** shows the extent of this encroached area.

An approach to mitigate the impacts of construction and address the encroachments has been developed and includes the following:

- The City would relocate the existing chain-link fence further out to the City's property line, to allow the City to maintain and access these lands and infrastructure
- Many encroachments would need to be removed in order to construct the box culvert, outlet structure and channel (irrespective of the fence location) including wood fences, trees, shrubs, gardens, patio areas and other objects
- Efforts would be made to keep existing trees and shrubs where possible, and impacted trees would be replaced elsewhere within the City's property if there is adequate space
- Other encroachments within the City's property that are removed would not be reinstated
- The removal of encroachments would be at the City's expense
- Encroachment agreements would be required between residents and the City for any encroachments that are allowed by the City to remain

How This Impacts You

On City-owned lands adjacent to your property at **Address** the following encroachment(s) would be impacted by the box culvert, outlet structure and channel construction and relocation of the City's chain-link fence:

- Encroachments listed here

These encroachments, or lack thereof, are preliminary at this time as they have been interpreted from visual field investigations and will need to be confirmed through legal survey. A plan showing the potential encroachments along the walkway is available on the project webpage:

mississauga.ca/malton-flood-mitigation

Public Feedback

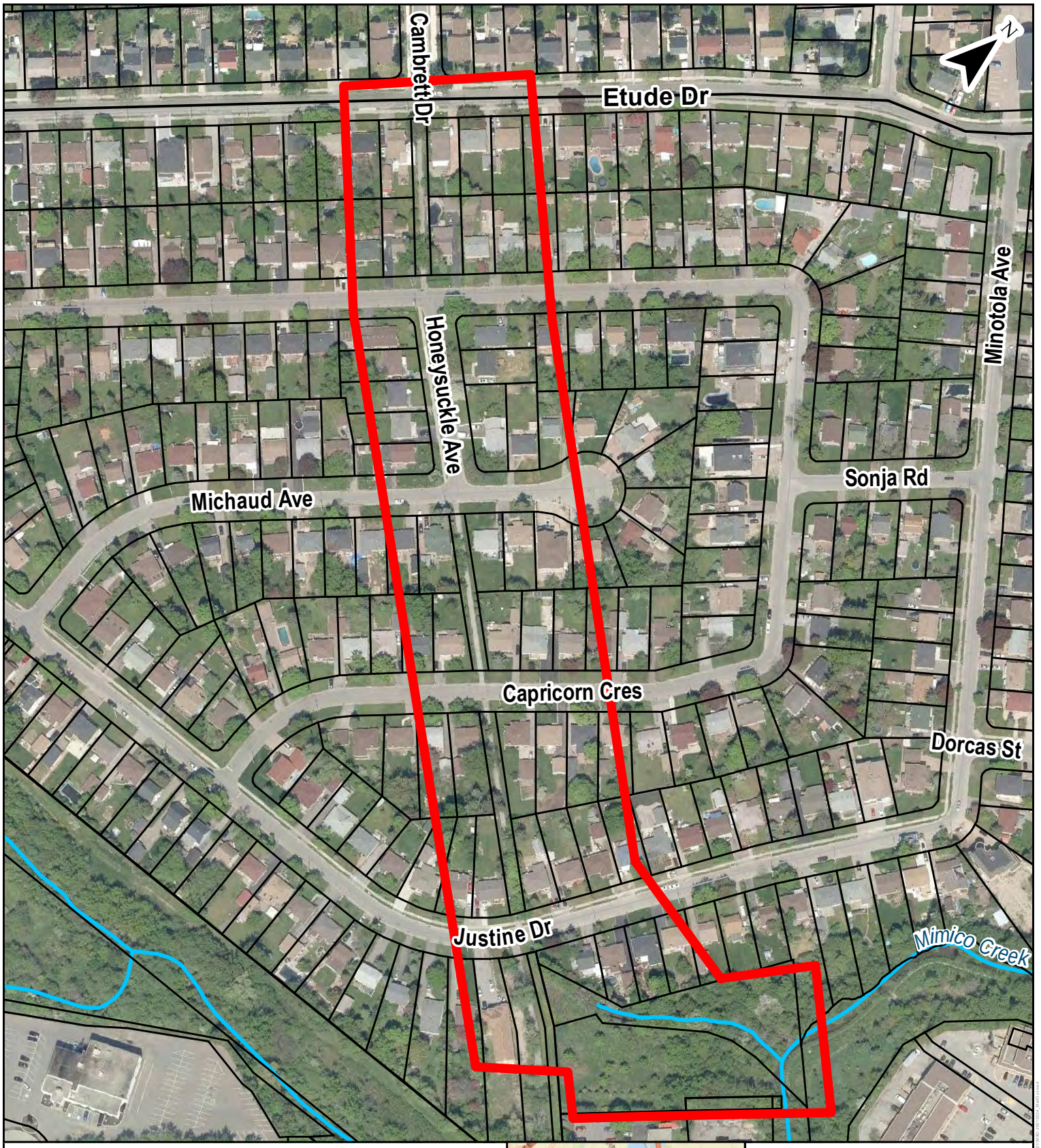
We would like to receive your feedback and ask that this be provided by **May 31, 2021** to assist us with planning of a future Public Information Centre (PIC).

If you have any comments or questions, require further information or would like to be added to the study mailing list to receive future notifications, please contact:

Anthony DiGiandomenico, P.Eng.
Project Manager
City of Mississauga
201 City Centre Drive, Suite 800
Mississauga, ON L5B 2T4
(905) 615-3200, Ext. 3491
anthony.digiandomenico@mississauga.ca

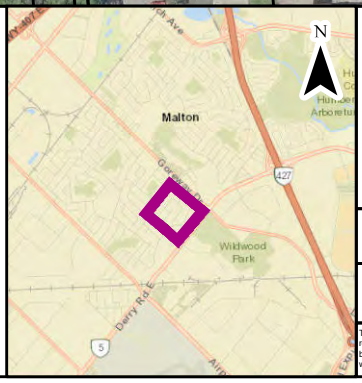
Derek Gray, P.Eng., A.A.E.
Consultant Project Manager
AECOM Canada Ltd.
5090 Explorer Drive, Suite 1000
Mississauga, ON L4W 4X6
(416) 452-5390
derek.gray@aecom.com

SAMPLE



Legend

- General Project/Work Area
- Parcel Fabric
- Watercourse



Malton Flood Mitigation Study - Etude Drive to Justine Drive

AECOM | Figure 1

0 50 100 M

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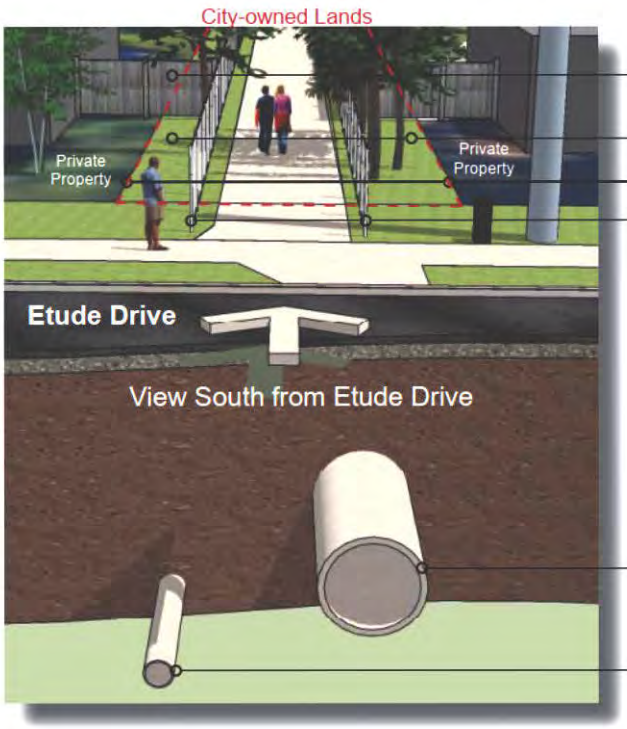
Existing Conditions



Fence and Tree/Vegetation Encroachments to be Removed

Zone of Encroachment on City-owned Lands

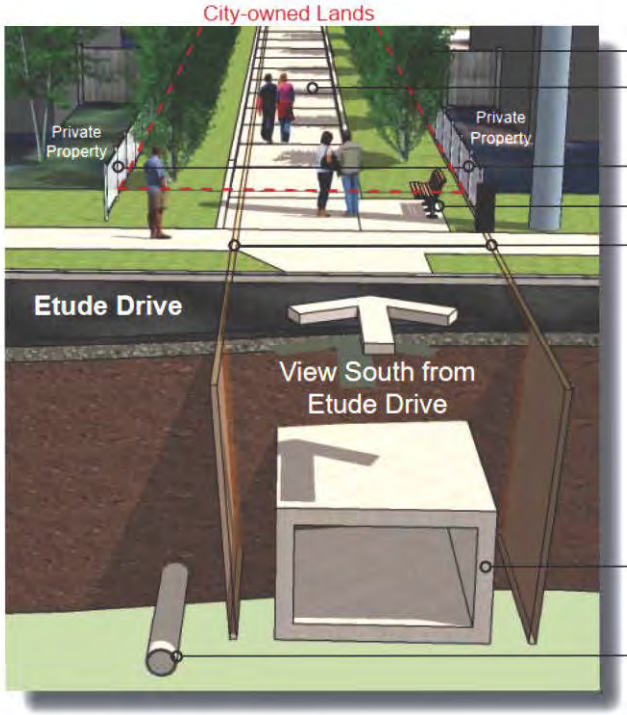
Property Line

Existing Chain Link Fence to be Replaced and Relocated

Existing Storm Sewer to be Replaced

Existing Sanitary Sewer

Proposed Conditions



New Tree Planting

Improved Walkway

New Chain Link Fence at Property Line

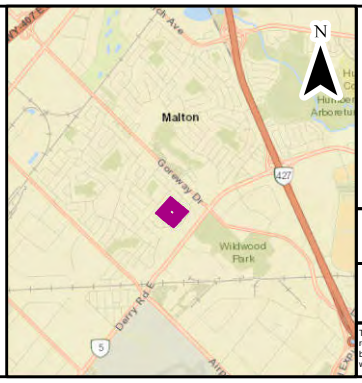
New Bench Seating

Excavation Limit for New Storm Sewer

Proposed Storm Box Sewer

Existing Sanitary Sewer

*Notes:
1.Renderings are shown for conceptual purposes based on information and interpretation of existing field conditions. The proposed alignment will be refined during the detailed design phase of the project.
2.The preliminary encroachments depicted in this drawing are interpreted from visual field investigation completed along the City-owned lands and Right of Way and will be confirmed through legal survey.



Malton Flood Mitigation Study - Etude Drive to Justine Drive

AECOM | Figure 2

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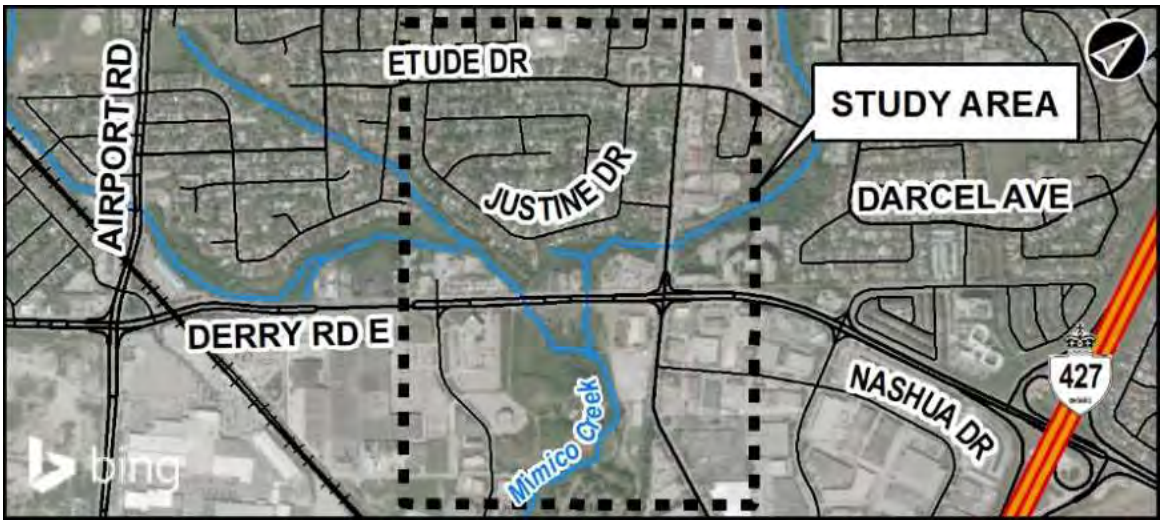
CITY OF MISSISSAUGA – NOTICE OF COMPLETION

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

What?

- The City of Mississauga has completed a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



Why?

- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

How?

- The Study characterizes and models the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process has involved identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution identified below. The preferred flood mitigation solution involves:
  - Replacing the existing storm sewer with a larger box storm sewer beneath the pedestrian walkway and Honeysuckle Avenue within the existing City property, from Etude Drive to the outfall channel, and associated restoration
  - Regrading of the existing walkway to create an overland flow route to safely convey runoff during larger storm events
  - Outfall upgrades and channel realignment south of Justine Drive at the outfall channel in Derry Greenway Park that flows into Mimico Creek

Project File

- A Project File documenting the Class EA process will be available for a 30-day public review period starting **February 28, 2024** and ending **March 28, 2024.**
- The Project File Report will be available on the project website: www.mississauga.ca/malton-flood-mitigation

- Interested persons are requested to provide written comments to the study team by **March 28, 2024.** All comments and concerns are requested to be sent directly to the Project Managers listed below.

Anthony DiGiandomenico, P.Eng.
Project Manager
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Derek Gray, P.Eng., A.A.E., I.R.P.
Consultant Project Manager
AECOM Canada Ltd.
1000 - 5090 Explorer Drive
Mississauga, ON L4W 4T9
derek.gray@aecom.com

- In addition, a Section 16 Order request may be made to the Ministry of the Environment, Conservation and Parks (MECP or Ministry) for an order requiring a higher level of study (i.e., requiring an individual/comprehensive Environmental Assessment approval before being able to proceed), or that conditions be imposed (e.g., require further studies), only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests are to include the requester contact information and full name.

- The Section 16 Order request should be sent in writing or by email by **March 28, 2024** to both contacts below with a copy to Anthony DiGiandomenico at the City.

Minister of Environment, Conservation and Parks
Ministry of Environment, Conservation and Parks
777 Bay Street, 5th Floor
Toronto, ON M7A 2J3
minister.mecp@ontario.ca

Director, Environmental Assessment Branch
Ministry of Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, ON M4V 1P5
EABDirector@ontario.ca

This notice signals the Notice of Public Information Centre for this Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

Personal information is collected under the authority of the Environmental Assessment Act and will be used in the assessment process. With exception of personal information, all comments shall become part of the public records. Questions about this collection should be directed to the Project Manager listed above.

This notice first issued on **February 28, 2024**.

AECOM

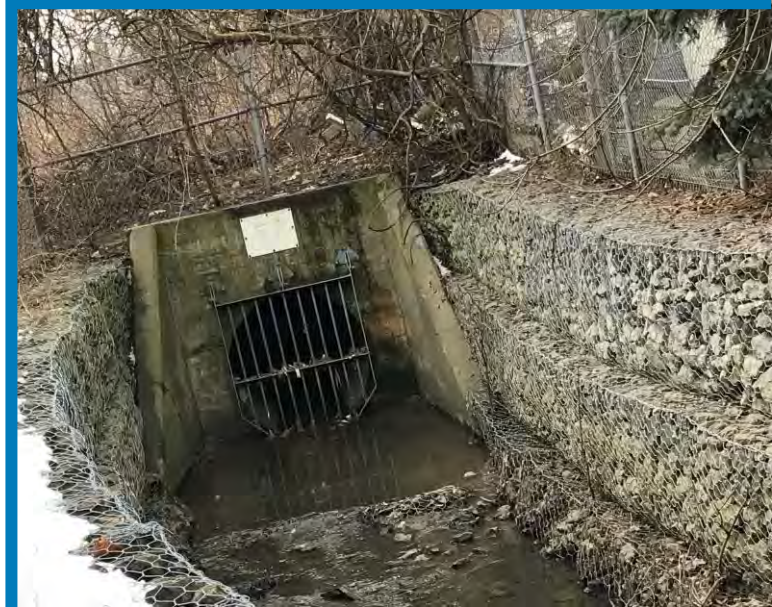
Public Information Centre Materials

Malton Flood Mitigation Study – Etude Drive to Justine Drive

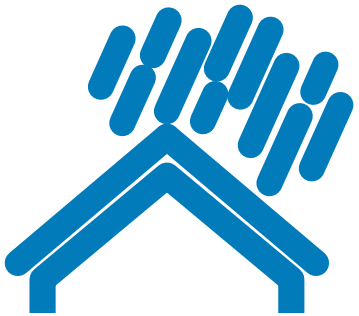
Municipal Class Environmental Assessment

Public Information Centre

Date: June 16, 2023



What is the Purpose of this Presentation?



- Introduce you to the study, work completed to date and review alternatives, including the preliminary preferred solution

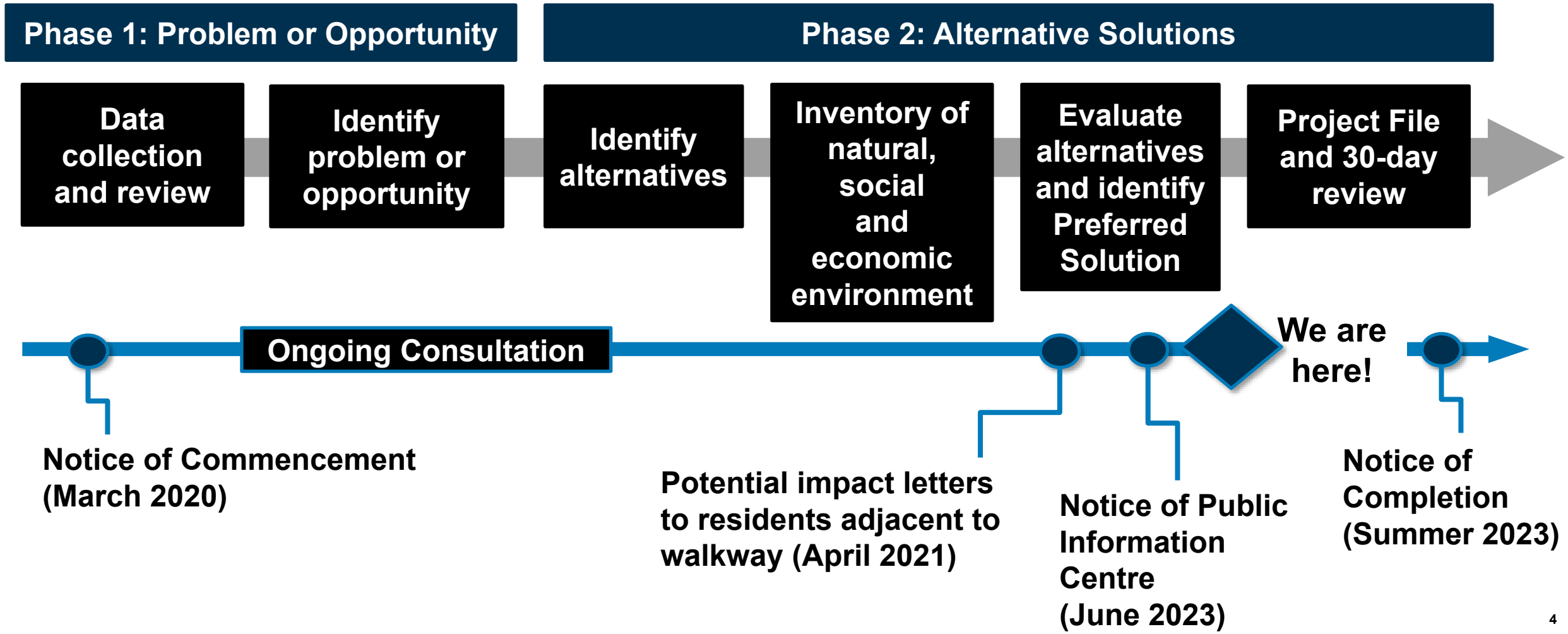
- Review what we have heard from residents and how impacts are being addressed

- Present next steps and receive your feedback

Project Overview

- The study area is comprised of single detached residential properties
- The study area has been subject to urban flooding during previous storm events, including the July 8th, 2013 rainstorm event
- A previous flood study for the larger Malton community identified this area as a high-priority site for potential flood mitigation efforts
- The City has initiated this study to mitigate urban flooding risks for this study area
- This study includes identifying and evaluating alternative solutions, including the preliminary preferred solution

Environmental Assessment Process



What has been Completed?

- Hydraulic/Flood Modeling
- Supporting studies:
  - Flood Mitigation Preliminary Design Report
  - Natural Environment Report
  - Fluvial Geomorphological Assessment
  - Arborist Report and Tree Preservation Plan
  - Stage 1 Archaeological Assessment Report
  - Cultural Heritage Memorandum

Supporting Studies

Natural Environment Report

- Inventory of the existing natural environment conditions:
  - Aquatics (e.g., fish and fish habitat)
  - Vegetation Communities
  - Significant Wildlife Habitat
  - Species at Risk
- Natural environment features within the Study Area include:
  - Mimico Creek and its surrounding natural area
  - Street trees and public parks

Fluvial Geomorphological Assessment Report

- Characterization of fluvial geomorphological conditions along the Tributary of East Mimico Creek and East Mimico Creek itself, including:
  - Delineation of reaches, including their stability and any potential erosion concerns
  - Future channel design considerations

Supporting Studies

Arborist Report and Tree Preservation Plan

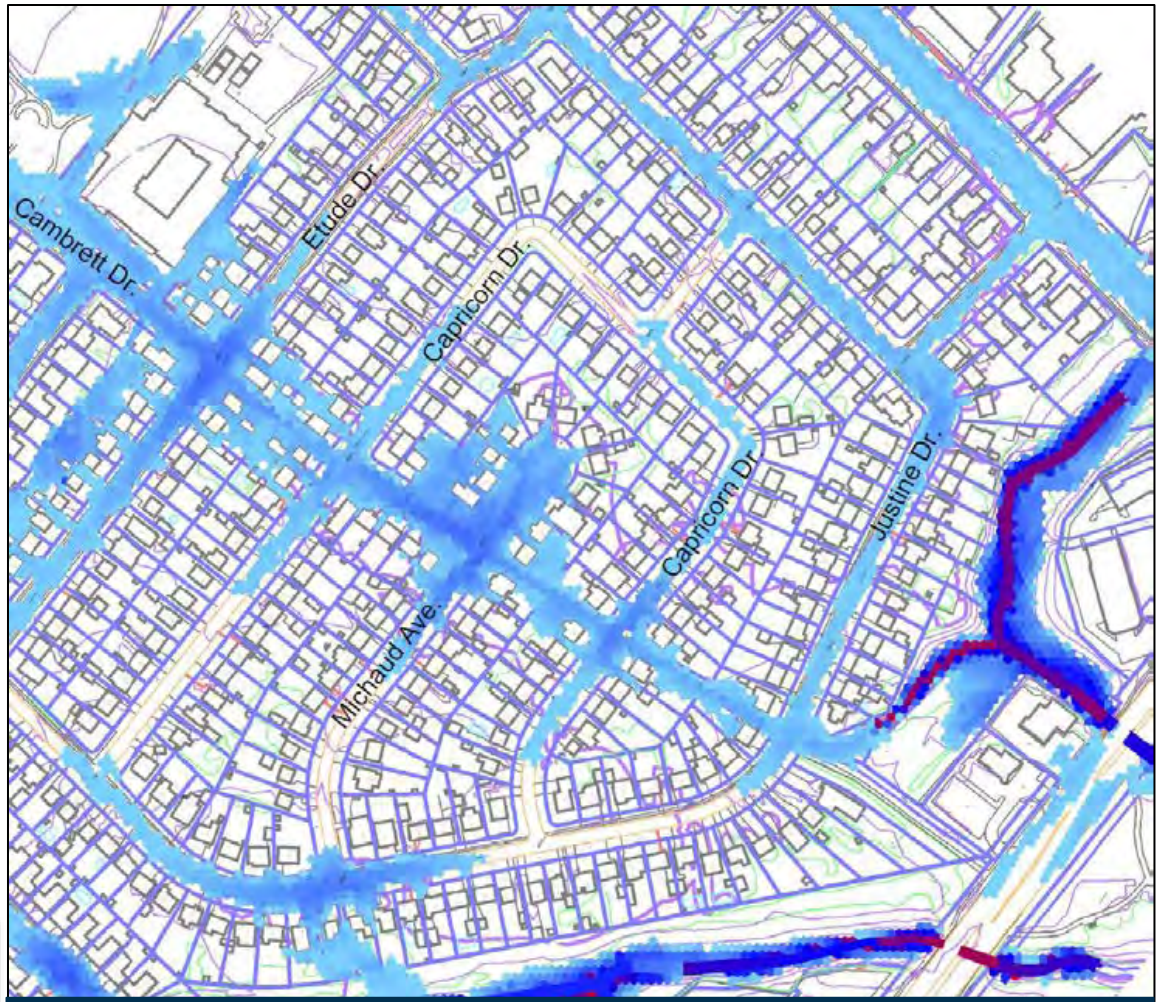
- Assessed the general health and structure of the trees within the anticipated areas of proposed work
- Tree removals will be required with final details confirmed prior to construction

Stage 1 Archaeological Assessment Report and Cultural Heritage Memorandum

- Potential for cultural heritage resources reviewed, including
  - Archaeological resources
  - Built heritage resources
  - Cultural heritage landscapes
- Stage 2 archaeological assessment is required for areas not previously disturbed
- There are no known previously identified or potential built heritage resources or cultural heritage landscapes

Existing Conditions - Flooding

- The Flood Mitigation Preliminary Design Report details the modelling steps completed to determine existing flooding conditions
- Results show 37 homes being impacted during the 100-year storm event
- These properties are also being impacted during more frequent storm events, such as 2-year and 5-year storm events

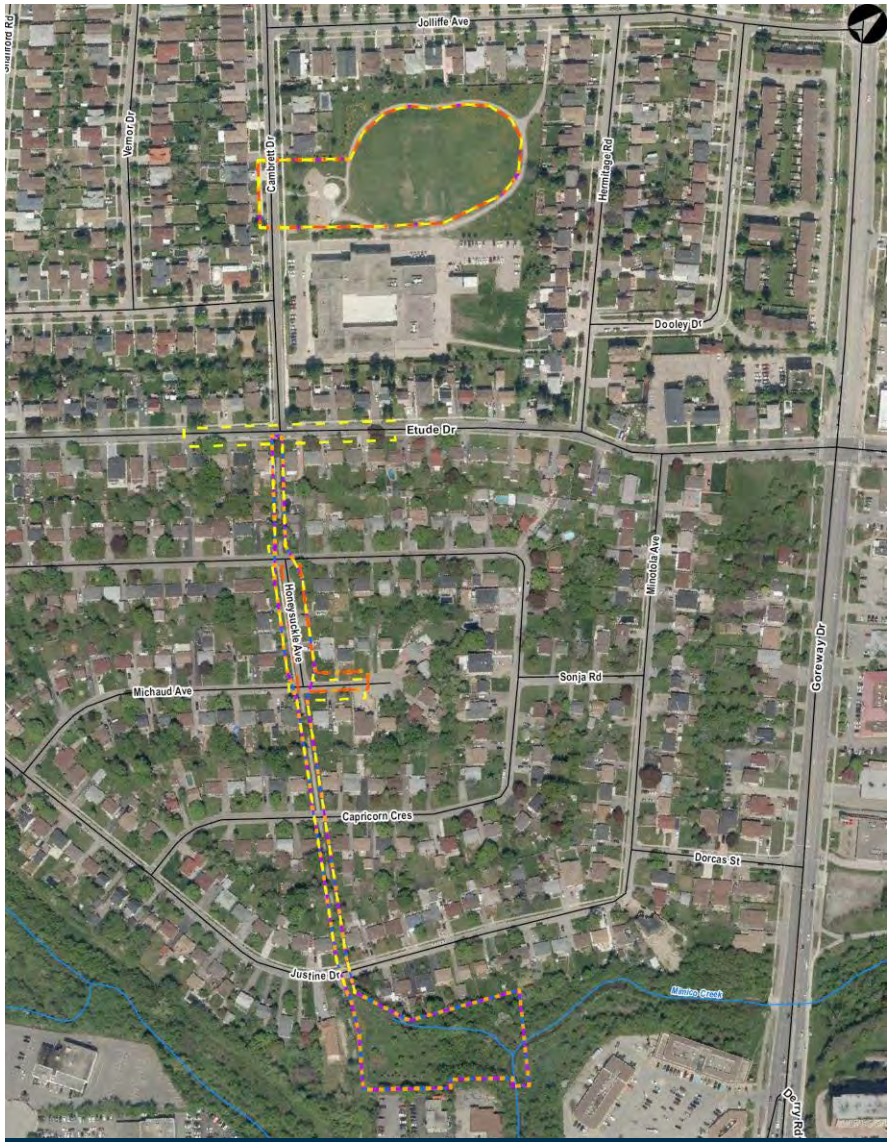


Results of 100-year storm event

Depths ranging from 0.01 m (light blue) to 2.76 m (red)

Alternative Solutions

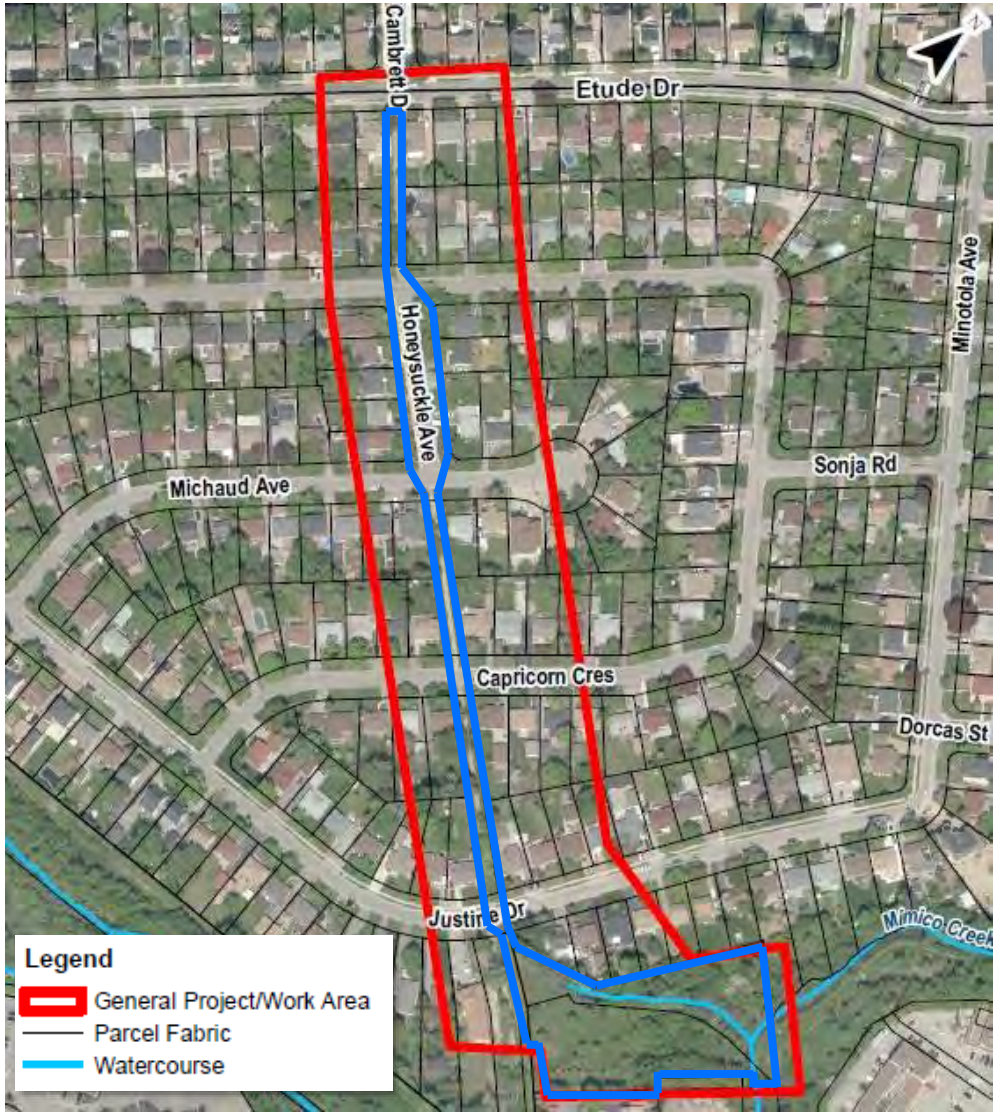
- Alternative 1: Replace storm sewer, regrade walkway and outlet upgrades
- Alternative 2: Construct storage in Ridgewood Park, relief storm sewer, regrade walkway and outlet upgrades
- Alternative 3: Construct storage in Ridgewood Park, relief storm sewer, bioswales and outlet upgrades
- Alternative 4: Construct storage in Ridgewood Park and bioswale
- Alternative 5: Construct storage in Ridgewood Park, additional storage and regrade walkway



The Alternative Solutions Map is available at:
www.mississauga.ca/malton-flood-mitigation

Preliminary Preferred Solution

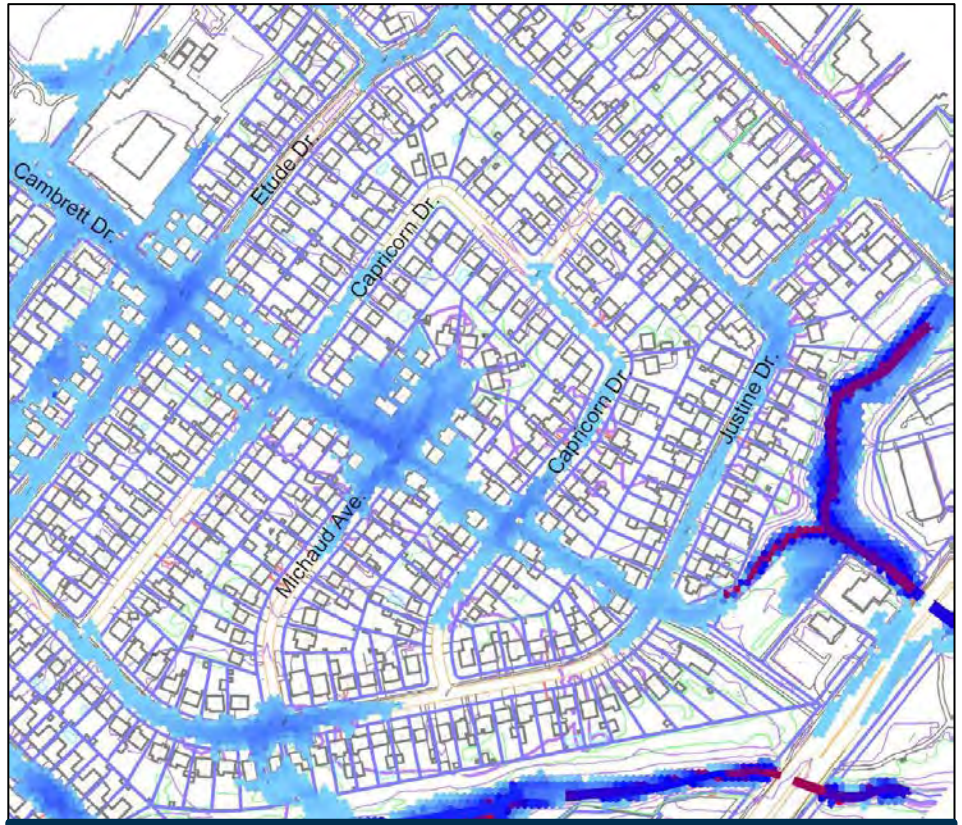
- Alternative 1: Replace storm sewer with 3.0m span and 1.8m rise box culvert, regrade walkway to convey overland flow and outlet upgrades at sewer outfall is preferred:
  - Significantly reduces the potential impacts of flooding
  - Minimizes impacts to public park space
  - Lower construction cost



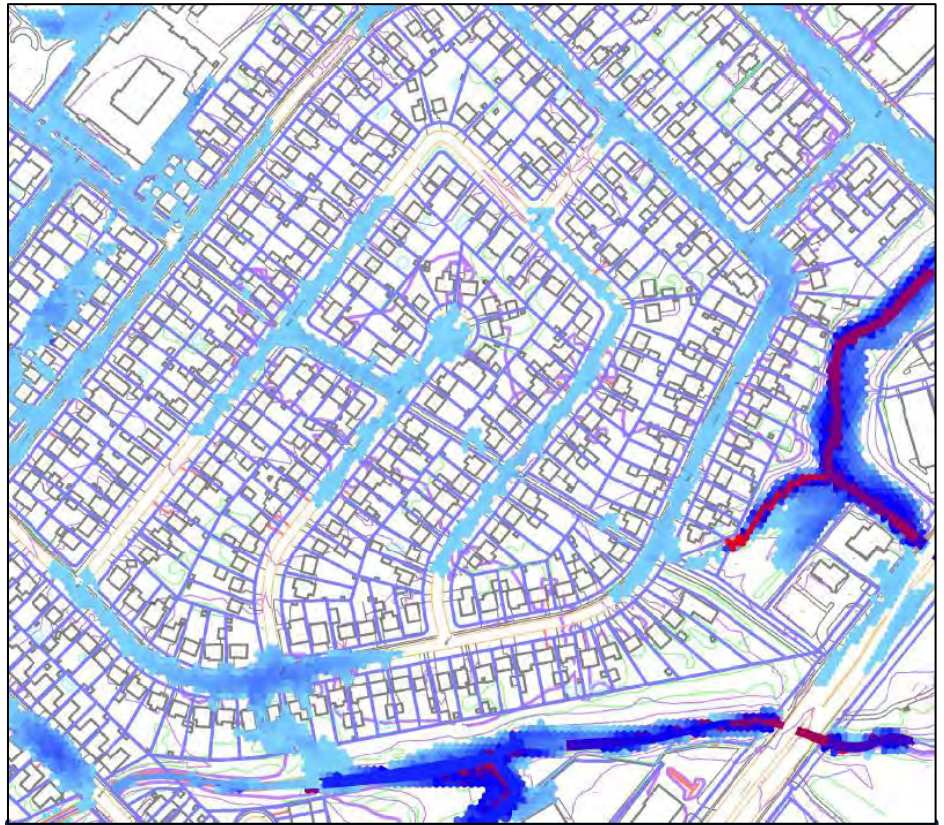
Preferred Solution- Flooding

- Based on the modeling results of the 100-year storm event for the preferred solution, there is a significant reduction in flooding when compared to existing conditions. The preferred solution would eliminate all homes along the walkway from being impacted during a 100-year storm event

Depths ranging from 0.01 m (light blue) to 2.76 m (red)

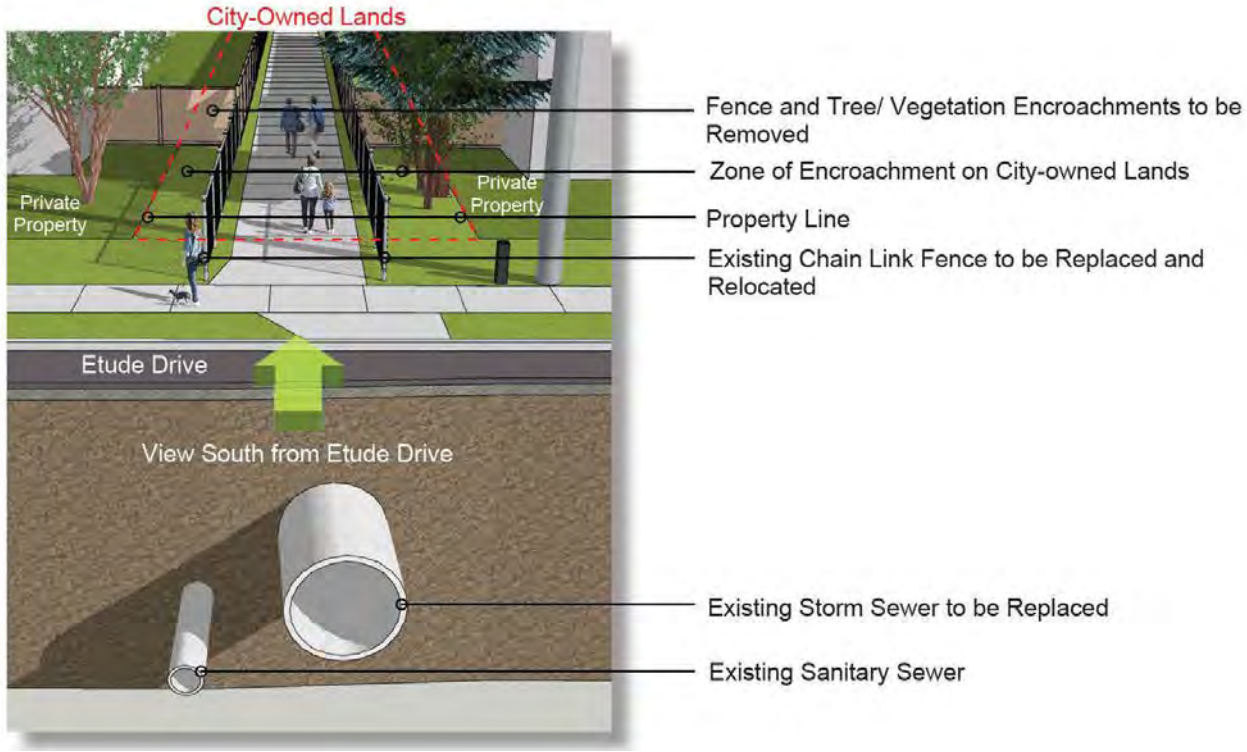


Existing Conditions – 100-year Storm Event

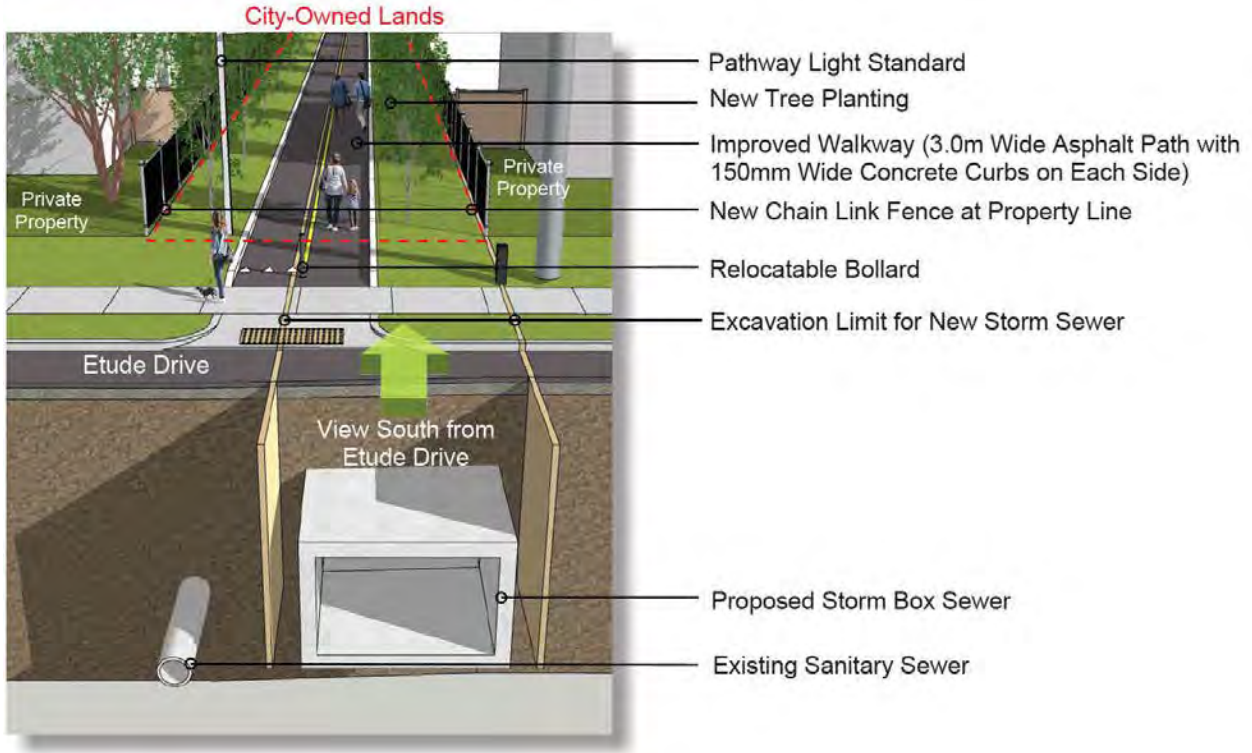


Preferred Solution – 100-year Storm Event

Conceptual Renderings – Storm Sewer



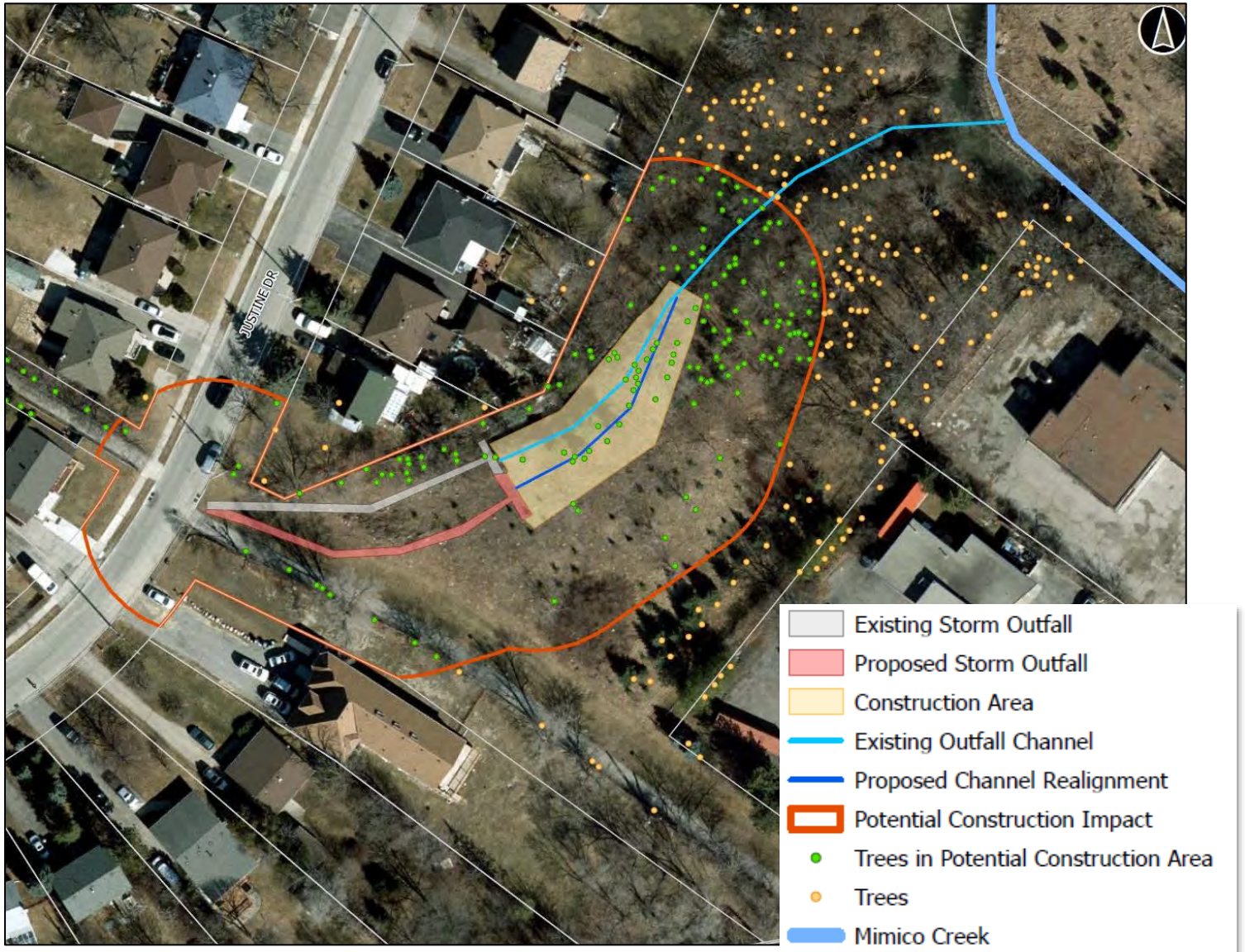
Existing Condition



Proposed Condition

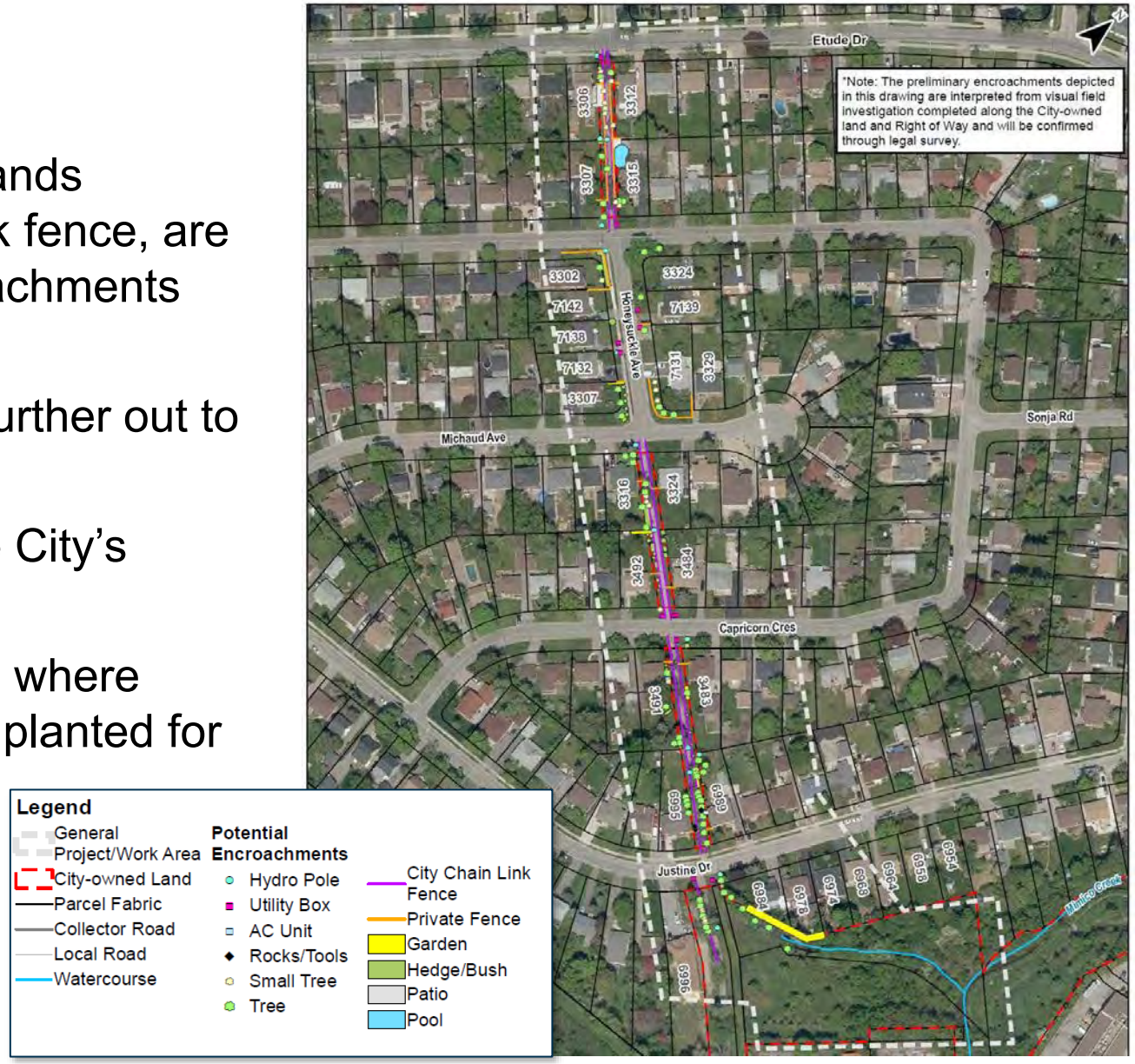
Outlet Upgrades

- Larger outlet structure and channel realignment south of Justine Drive upstream of Mimico Creek
- Future design will minimize impacts to trees and vegetation to fullest extent possible



Encroachments Plan

- The pedestrian walkway area, including lands extending beyond the walkways chain-link fence, are City-owned lands and many illegal encroachments exist (e.g., trees, gardens, fences)
- The chain-link fence would be relocated further out to the City's property line
- Encroachments would be removed, at the City's expense, and not reinstated
- Efforts will be made to keep existing trees where possible and new trees/vegetation will be planted for those removed



Encroachments Plan available at:
www.mississauga.ca/malton-flood-mitigation

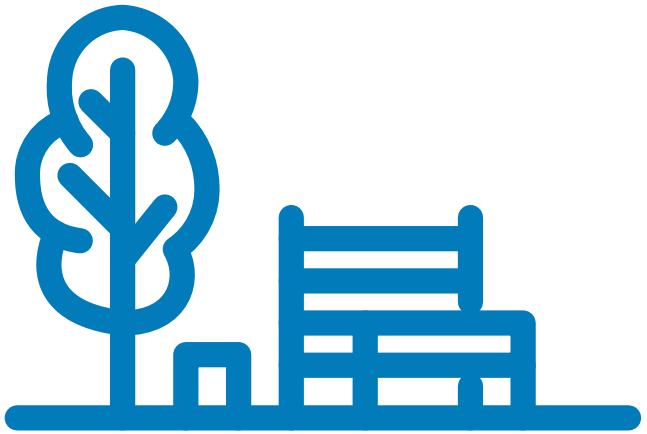
Notice of Public Impacts Letter

- Notice letter mailed out in April 2021 to directly affected property owners
- Purpose was to provide a project update, share preliminary preferred solution and identify specific encroachments adjacent to properties and the City's plan for encroachments
- Requested feedback and many residents provided their thoughtful comments
- Thank you to everyone who provided feedback

What we heard from Residents

- Public support for solution given past flooding experiences

- Inquiries about specific impacts to encroachments on City's property
- Walkway maintenance



- How concerns about loitering and litter would be addressed through the new walkway design

Project Timeline and Next Steps

Incorporate feedback and finalize preferred solution

June 2023

Finalize project file and issue Notice of Completion

Summer 2023

Preliminary and detailed design phases

2023-2024

Construction tentatively starting

***2024**

**Subject to City's capital budget process*

Questions? Would you like to be added to the Contact List? Please Contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.
1000 - 5090 Explorer Drive
Mississauga, ON L4W 4T9
derek.gray@aecom.com

Project website: www.mississauga.ca/malton-flood-mitigation

Comment form: https://forms.office.com/r/0uwTQ5m3FT - *submit comments by **July 19, 2023***

Municipal Class EA Study: Malton Flood Mitigation Study - Etude Dr. to Justine Dr.

The City of Mississauga is carrying out a Schedule B Municipal Class Environmental Assessment (EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community. Please take a few minutes to complete this form to provide your comments by July 19, 2023.

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

* Required

1. Full Name *

   Enter your answer

2. E-mail Address *

   Enter your answer

3. Street Address

   Enter your answer

4. Are you a *

- ◯ Homeowner or tenant living adjacent to the walkway in the Study Area
- ◯ Homeowner or tenant living in Malton
- ◯ General member of the public
- ◯ Member of an interest group
- ◯ Consultant
- ◯ Agency Representative
- ◯ Other

5. Would you like to be added to the project mailing list to receive future notifications? *

- ◯ Yes
- ◯ No

6. Do you have any questions about the Schedule 'B' Municipal Class EA process?

Enter your answer

7. The Study Team is recommending replacing the existing storm sewer beneath the pedestrian walkway and within existing City property from Etude Drive to the Mimico Creek outfall channel in Derry Greenway Park, regrading the walkway and complete outlet upgrades south of Justine Drive.

Do you have any comments or concerns regarding this recommended alternative?

Enter your answer

8. Are you satisfied with the proposed flood mitigation solution?

- ◯ Yes
- ◯ No
- ◯ Unsure

9. Do you have any other comments or questions regarding this study?

Enter your answer

You can print a copy of your answer after you submit

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AECOM

Public Correspondence

Malton Flood Mitigation Study
Public Correspondence

Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
[redacted]	Email	3/16/2020	Anthony DiGiandomenico	Good morning, can you please add me to the study mailing list. Thanks [redacted]	Hi [redacted] Thanks for your interest in the study. This is to confirm your addition to the mailing list. Regards, Anthony	Email	3/16/2020
[redacted]	Email	3/19/2020	Anthony DiGiandomenico	Hi Anthony, I am a resident of Malton, specifically at Etude Drive. I would like to be part of the mailing list so I can receive future notifications about the mentioned study	Hi [redacted] Thanks for your interest in the study. This is to confirm your addition to the study's mailing list.	Email	3/19/2020
[redacted]	Email	3/20/2020	Anthony DiGiandomenico	Good day, please add me to the mailing list for: Malton flood mitigation study: Etude Dr to Justine Dr	Hi [redacted] Thanks for your interest in the study. This is to confirm your addition to the study's mailing list. Regards, Anthony	Email	3/20/2020
[redacted]	Email	5/4/2021	Anthony DiGiandomenico	Email Part 1: I live at [redacted]. Your drawing of the Malton Flood Mitigation Study shows that I have four large Lilac Shrubs which are an encroachment on your flood plan. Is it possible to have city to move these either on to the city property or my property along the new fence line? It would be a shame to loose them as they provide us with privacy as well as beautification to our property. Email Part 2: Could you please add me to your email list for information about this project. From your drawing, it looks like trees will be planted along the fence line. Is that accurate? [redacted]	Hi [redacted] As requested, we will add you to the project mailing list. By copy to Derek, our consultant project manager, please add David to our mailing list. Thank you, Anthony	Email	5/5/2021
[redacted]	Phone	5/5/2021	Anthony DiGiandomenico	Follow up phone call with resident.	No action items from phone call.	N/A	N/A
[redacted]	Email	5/25/2021	Anthony DiGiandomenico	Anthony: I am concerned about the installation of a bench, or benches at the end of the path walks. It may make sense on Etude where there is a bus stop but not on the other paths. We already have a problem with loitering on these paths and not long ago there was a problem with drug deals happening on our street. The path, along with cell phone calls, provided a quick approach and escape route from a waiting car on Capricorn Crest. Of course the police were informed and the activity has slowed down for now. However, if benches are placed at the ends of these paths, as the drawing indicates, it is just inviting this sort of activity and making it much harder to spot and report. If residents in this area see some one loitering on the path they may see it as odd and report it to the police. The police would likely take that seriously and respond. I can't imagine trying to report to the police that some one is sitting on a public bench, and have them respond. Even though the activity is the same. [redacted] [redacted] [redacted] [redacted]	See below email response	N/A	N/A

Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
[redacted]	Email	7/25/2021	Anthony DiGiandomenico	RE: Malton Flood Mitigation: Placement of fence Anthony: I live at [redacted]. The new walkway proposed for the flood mitigation program is going to pass beside our house. I would like to suggest that once all the excavation is completed and the sewer box is installed, that the new fence be once again installed right beside the walkway with no new green space added. My concern is, if the new fence is placed on the property line as shown in the drawing and a few feet of green space is added beside the walkway, that this new space will increase the cases of loitering that the residents in the effected area are already experiencing. As it is, we are all ready having to deal with people pacing up and down the path for 30mins. at a time yelling into their cell phones with the phone setting on speaker. We also have others who like to gather in groups to loudly talk while eating take out food. Of course the food containers are tossed on the path for others to pick up. My other concern is the up keep of the new green space. How often is the city realistically going to come by and cut the grass or trim what ever bushes are planted there. How much is this going to cost tax payers for the added upkeep. As it is now, the home owners cut the city own property when they cut their own lawn and maintain any bushes that my be there. I might also add that at present there is a small amount of grass by the existing path which is supposed to by maintained by the city. However, it is only trimmed a few times a year and I usually feel the need to trim it myself on a regular basis. Given the potential for Lottering and the extra costs involved for maintenance, I think it only makes sense to install the new fence beside the walkway and not on the property lines. Thank you [redacted]	[redacted] Thank you for providing your feedback and potential concerns. This is to acknowledge receipt of your message as well as the concerns you've raised. As part of the current Environmental Assessment stage, we will be looking into aspects of the design to respond to the feedback we have received from the community, including your feedback provided below. We plan on having a Public Information Centre (PIC) in the future that will include presenting a preliminary design for public review and feedback. As the study progresses and timing for the future PIC is determined, notice will be distributed to residents in advance. Appreciate you taking the time to provide your feedback and if you have any other questions or concerns please don't hesitate to contact me. Thank you, Anthony	Email	7/26/2021
[redacted]	Email	5/12/2021	Anthony DiGiandomenico	Hello Anthony, My name is [redacted] and I'm reaching out on behalf of my [redacted] who lives at [redacted] My Dad received a notice for the proposed Malton Flood Mitigation project and he was a little confused about what exactly is being planned and when this project would potentially start? Would you be able to provide me with a clearer explanation of this project? Our main questions are: 1. When is the project slated to begin and how long is it supposed to take to complete? 2. How would this impact my father's property? 3. Is there someone I could speak to just to get full clarity on all the details of this project so I can explain it all to my Dad? He is an 83 year old man who has a very thick Italian accent so I try to take care of most things for him nowadays…..my cell phone is [redacted] 4. Based on the proposal that I saw it looks like the project will be removing a portion of my Dad's fence and some trees and bushes…..My Dad wanted me to pass on to the project managers that he is fine with just the fence and grass being replaced once the project is complete. He would prefer that the tress and bushes not be put back in. Thanks so much [redacted]	Hi [redacted] Thanks for reaching out about the study. As per our call this morning, I would ask Derek, our consultant project manager (copied), to have you added to our project mailing list.	Phone and email	5/13/2021
[redacted]	Phone	5/18/2021	Anthony DiGiandomenico	One other resident reached out to Anthony from [redacted]). General comments were that they like the idea of the project as they have experienced flooding from the channel/Mimico Creek interaction and believed the work is long overdue. They would like more info on the outlet channel as the project moves forward. Anthony didn't get an email so please make sure they are on the list.	Comments noted	Phone	5/18/2021

Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
[redacted]	Email	5/19/2021	Anthony DiGiandomenico	Hello Anthony and Derek, I am writing on behalf of my parents [redacted] They have some feedback In regards to the storm sewer culvert construction along the walkway. As stated in the letter they received their patio area and wood fence will be impacted and they would like to know who is going to pay to replace these things? We understand that it is City owned property but the city should have extended the walkway when it was first built rather than 40-50 years later, when the residents who have lived there for more than 20 years have established a beautiful backyard. Now that we have incurred the costs of creating a privacy fence, the City wants to come and tear it down for their benefit. The fence cost my parents $7000 and now they will need to build a new one because living beside a walkway in a crappy neighborhood has caused nothing but issues for them. The city also wants to add benches for people to loiter. During the night people hang around in these walkways and are loud, cause issues where the police need to be called, they drink and discard their bottles into my parents backyard, spray paint the fences etc. Adding benches is not a good idea in this neighborhood. Also the only time the city actually maintains these walkways is when the residents who live beside them call the city to complain about the garbage and weeds overflowing. No one sends monthly cleaners and we know for a fact widening the walkway won't change this. We have spoken to all the neighbours along each walkway being affected and they are not happy and are very concerned about the construction. Please expect emails from them as well. Please advise when the expected construction date is. Thank you [redacted]	Hello [redacted], It is a pleasure to respond to the message you've provided on behalf of your parents. This is to acknowledge receipt of your message as well as the concern you've raised. Based on the feedback you've provided, we're going to gather the responses that are coming back to the letter we've issued, in order that we can understand the community concerns. For context on what the City is investigating, you'll recall there was a significant storm event that occurred in July 2013 that impacted many homes within this neighbourhood and across the City. This study was initiated to find a solution to reduce the potential impacts of flooding to properties in this specific area. We've found that a real opportunity exists to significantly reduce the potential impacts of flooding for properties adjacent to the walkway and surrounding area by replacing the existing storm sewer within the walkway with a larger box culvert storm sewer. This is a preliminary preferred solution as we are currently in the Environmental Assessment (EA) study phase, focused on gathering feedback from the public. As we gather the balance of feedback in the coming weeks, we can follow-up with further information. Appreciate you taking the time to provide your feedback and if you have any other questions or concerns, please don't hesitate to contact me. Thank you, Anthony	Email	5/26/2021
[redacted] c	Email	6/16/2021	Anthony DiGiandomenico	Good evening Anthony and [redacted] I went for a walk with my family today and I took a few pictures (posted below)of the walkways that are up for subject of proposed construction. As stated in my previous email these walkways are never maintained unless a resident calls to complain, this is another reason adding benches and a wider space is nothing that will improve the area as it will only become a bigger space with growing weeds and more garbage. I invite you to come and walk these paths and see first hand what I am writing about. The picture of the asphalt that is broken up with the orange spray paint around it, has been this way for many many years. These walkways are not maintained by the city and I think before expanding them the city should look at how neglected they are in the first place.	Good morning [redacted] Thank you for sharing your concerns regarding maintenance of the walkway and for providing the pictures. This is something we'll be looking into per your previous comment. As such, thank you for providing this follow-up information. If you have any other questions or concerns, please don't hesitate to contact me. Thank you,	Email	6/14/2021
[redacted]	Email	7/23/2021	Anthony DiGiandomenico	Hello Anthony, I was wondering if there is an update on the storm sewer culvert? We see our lawns and the walkways and roads have been marked up. Please advise. Thank you, [redacted]	Hello [redacted], Thank you for reaching out about the study. Recently, some surveying work has started in the neighbourhood to identify property lines and underground infrastructure and this may include marking the ground where necessary. Please find attached a notice which was distributed to homes earlier this month. As part of the current Environmental Assessment stage, we will be looking into aspects of the design to respond to the feedback we have received from the community. We plan on having a Public Information Centre (PIC) in the future that will include presenting a preliminary design for public review and feedback. As the study progresses and timing for the future PIC is determined, notice will be distributed to residents in advance. If you have any other questions please don't hesitate to contact me. Thank you, Anthony	Email	7/26/2021

Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
[redacted]	Phone	5/20/2021	Derek Gray		[redacted] good afternoon. Please consider this a follow-up to our earlier conversation. I apologize I wasn't able to provide better answers at the time. As mentioned the City's owned lands along the walkway are actually 7.5m wide (approximately 22.5') wide which would translate into approximately 2.25m (approximately 6.75') on each side of the existing fences. Specific to your property this will be confirmed going forward through a legal survey. During our call you brought up the following concerns: •Trees – any existing trees in the City lands would be removed and compensated for. I'm just going back to see what trees we included in the graphic as a potentials replacement for trees that would be removed due to the construction. •Fences – at the completion of work the City will be installing fences at the property line once the work is complete. What that will look like hasn't been decided yet. •Benches – you are not in favour of the benches as it would encourage more loitering. •Ongoing maintenance – you had mentioned that you think the City's maintenance visits need to be increased. I have your phone number as [redacted] I've cc'd Anthony the Project Manager from the City as well as Karl and Sam from AECOM who are keeping track of all comments and ensuring that individuals are added to the project database for future communications. If I missed something or misrepresented our conversation please feel free to add or correct. It would be beneficial if you could confirm receipt of this email. If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email. Stay well, Derek R. Gray, P.Eng., A.A.E.	Email	5/20/2021
[redacted]	Email	5/30/2021	Anthony DiGiandomenico and Derek Gray	Hello Anthony and Derek, We have some feedback in regards to the storm sewer culvert construction along the walkway. As stated in the letter we received our wood fence, four trees (two matured) and flower bed will be impacted. We understand that it is City owned property, but the City should have extended the walkway when it was built, rather than 50 years later, when the residents lived there many years established beautiful backyards. Now the City want to tear down the fence, cut down the mature trees for own benefit. We will need to rebuild wooden fence later, (what will be hard-I'm already senior citizen, and my wife will be in one year) to have some privacy, because living beside walkway in not so great neighborhood has caused nothing but issues. The City also wants to add benches-this is very bad idea, because will create much more problems with loitering and other wrongful activities. During the night people hang around in these walkways and are loud, cause issues where police need to be called, they drink and often discard empty bottles and other garbage(few times really terrible items) into our backyard. Also the only time the City actually maintains these walkways is when somebody from residents call the City to complain about the garbage and overflowing weeds. No one sends cleaners regularly, and we know for fact widening the walkway and especially adding benches only will make this problem much worst. We spoken to all the neighbours along walkways being affected and they are very unhappy and concerned about widening the walkway. Regards, [redacted]	Comments noted.	N/A	N/A

Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
[redacted]	Email	5/26/2021	Anthony DiGiandomenico and Derek Gray	Hi Mr Digiandomenico and Mr Gray: I am in receipt of the letter from the City of Mississauga dated April 26,2021 regarding the potential impacts of the above referenced project on my property [redacted] . Amongst other things, the letter refers to our pool and patio area as an encroachment that may be impacted by the project. Please note that the pool, which has been there for over 30 years, is in a location that was approved by a City issued permit. As such, in addition to taking all reasonable steps to minimize the impact on my property, I trust that you will ensure the project does not cause any damage whatsoever to the pool. If you would like to discuss my concerns further please contact me at the number below. Thank you. [redacted]	Hi [redacted] It was a pleasure talking with you earlier today and to provide a response to the message you've provided. This is to acknowledge receipt of your message as well as the concern you've raised. Based on the feedback you've provided, we're going to gather the responses that are coming back to the letter we've issued, in order that we can understand the community concerns. The box culvert storm sewer is a preliminary preferred solution as we are currently in the Environmental Assessment (EA) study phase, focused on gathering feedback from the public. As we gather the balance of feedback in the coming weeks, we can follow-up with further information. As a follow-up to your question, the City's owned lands along the walkway are 7.5m wide (approximately 23' wide) which would translate into approximately 2.3m (approximately 7') on each side of the existing fences. Specific to your property this will be confirmed going forward through a legal survey. We will try our best to mitigate any impacts of the box culvert storm sewer on existing potential encroachments, including your swimming pool, and these details will be confirmed as we progress through the project. Please let me know if you're interested in having your email added to our project mailing list. Appreciate you taking the time to provide your feedback and if you have any other questions or concerns, please don't hesitate to contact me. Thank you, Anthony	Email	5/28/2021
[redacted]	Phone	5/20/2021	Derek Gray	Resident phoned Derek	[redacted] good afternoon. Please consider this a follow-up to our earlier conversation. I apologize I wasn't able to provide better answers at the time. As mentioned the City's owned lands along the walkway are actually 7.5m wide (approximately 22.5') wide which would translate into approximately 2.25m (approximately 6.75') on each side of the existing fences. Specific to your property this will be confirmed going forward through a legal survey. During our call you brought up the following concerns: •Trees – any existing trees in the City lands would be removed and compensated for. I'm just going back to see what trees we included in the graphic as a potentials replacement for trees that would be removed due to the construction. •Fences – at the completion of work the City will be installing fences at the property line once the work is complete. What that will look like hasn't been decided yet. •Benches – you are not in favour of the benches as it would encourage more loitering. •Ongoing maintenance – you had mentioned that you think the City's maintenance visits need to be increased. I have your phone number as [redacted] I've cc'd Anthony the Project Manager from the City as well as Karl and Sam from AECOM who are keeping track of all comments and ensuring that individuals are added to the project database for future communications. If I missed something or misrepresented our conversation please feel free to add or correct. It would be beneficial if you could confirm receipt of this email. If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email. Stay well,	Email	3/20/2021
[redacted]	Email	8/9/2022	Derek Gray	hi derek can you update me on sewer system.also what distance from existing fence on property will be lost.been over a year . any dates on meetings with owners. thanks owner [redacted]	[redacted] my apologies for not responding sooner. Your email came in on my personal phone and I thought it was one of my neighbours as we had and fence installed recently. We're currently working on progressing the conceptual design based on feedback we've received from the community to-date. We anticipate sharing more project information and gathering additional input from the public in the fall with notification provided in advance. Similar to my past email, the edge of the City owned land is approximately 2.3m beyond the current fence line in your general area. I've also included Anthony DiGiandomenico the City Project Manager in this email.	Email	8/9/2022

Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
[redacted]	Email	8/10/2022	Derek Gray	Derek thanks for returning my message.I know your busy trying to get proper depts or people who can help is trying at times. Can you guide me to proper people who can help with concerns a nieghbour is having a possibe improper construction of a front porch a shed and wideing of a driveway at [redacted] The person with the concern is surinder pawar [redacted] .really would be helpful thanks in advance.	[redacted] just for clarity I work for AECOM who was retained by the City of Mississauga for the issue associated with the flooding along the pathway. I am neither a resident of Mississauga (Toronto) or an expert in permits required for residential construction/renovations. A couple of options, this link takes you to the City's website where the requirement of building permits are laid out Building permits – City of Mississauga. The Contact us – City of Mississauga section of the website lists a number of options including 311 and an online form for inquiries. My experience with the 311 system in Toronto has been positive when calling about complaints about construction in my neighbourhood. Anthony may also be able to provide some additional direction.	Email	8/10/2022
[redacted]	Phone	8/12/2022	Anthony DiGiandomenico	Hi Derek, I had a call today with [redacted] the resident at [redacted] to answer some of his study questions. If [redacted] s not already on the project mailing list could you please add him. Thanks, Anthony	N/A	N/A	N/A

Subject: RE: Malton Flood Mitigation Study - Etude Drive to Justine Drive

From: Anthony DiGiandomenico
Sent: 2020/03/16 10:09 AM
To: [redacted]
Subject: RE: Malton Flood Mitigation Study - Etude Drive to Justine Drive

Hi [redacted]

Thanks for your interest in the study. This is to confirm your addition to the mailing list.

Regards,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2020/03/16 9:02 AM
To: Anthony DiGiandomenico
Subject: Malton Flood Mitigation Study - Etude Drive to Justine Drive

Good morning, can you please add me to the study mailing list.

Thanks
[redacted]

Get Outlook for Android

Subject: RE: Malton Flood Mitigation Study

From: Anthony DiGiandomenico
Sent: 2020/03/19 3:11 PM
To: [redacted]'
Subject: RE: Malton Flood Mitigation Study

Hi [redacted]

Thanks for your interest in the study.

This is to confirm your addition to the study's mailing list.

Thank you,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

-----Original Message-----
From: [redacted]
Sent: 2020/03/19 1:29 PM
To: Anthony DiGiandomenico
Subject: Malton Flood Mitigation Study

Hi Anthony,

I am a resident of Malton, specifically at Etude Drive. I would like to be part of the mailing list so I can receive future notifications about the mentioned study.

Thanks,
[redacted]

Subject: RE: Malton flood mitigation study: Etude Dr to Justine Dr

From: Anthony DiGiandomenico
Sent: 2020/03/20 1:54 PM
To: [redacted]'
Subject: RE: Malton flood mitigation study: Etude Dr to Justine Dr

Hi [redacted]

Thanks for your interest in the study.

This is to confirm your addition to the study's mailing list.

Regards,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2020/03/20 1:07 PM
To: Anthony DiGiandomenico
Subject: Malton flood mitigation study: Etude Dr to Justine Dr

Good day, please add me to the mailing list for: Malton flood mitigation study: Etude Dr to Justine Dr

Regards, [redacted]

Subject: FW: Storm Sewer Culvert Construction - 60620028

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: Friday, May 28, 2021 7:25 PM
[redacted]
Cc: Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] Storm Sewer Culvert Construction

Hi [redacted],

It was a pleasure talking with you earlier today and to provide a response to the message you've provided.

This is to acknowledge receipt of your message as well as the concern you've raised. Based on the feedback you've provided, we're going to gather the responses that are coming back to the letter we've issued, in order that we can understand the community concerns.

The box culvert storm sewer is a preliminary preferred solution as we are currently in the Environmental Assessment (EA) study phase, focused on gathering feedback from the public. As we gather the balance of feedback in the coming weeks, we can follow-up with further information.

As a follow-up to your question, the City's owned lands along the walkway are 7.5m wide (approximately 23' wide) which would translate into approximately 2.3m (approximately 7') on each side of the existing fences. Specific to your property this will be confirmed going forward through a legal survey.

We will try our best to mitigate any impacts of the box culvert storm sewer on existing potential encroachments, including your swimming pool, and these details will be confirmed as we progress through the project.

Please let me know if you're interested in having your email added to our project mailing list.

Appreciate you taking the time to provide your feedback and if you have any other questions or concerns, please don't hesitate to contact me.

Thank you,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

-----Original Message-----
From: [redacted]
Sent: 2021/05/26 2:38 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>

Cc: derek.gray@aecom.com
Subject: Storm Sewer Culvert Construction

>
> Hi Mr Digiandomenico and Mr Gray:
>
> I am in receipt of the letter from the City of Mississauga dated April 26,2021 regarding the potential impacts of the above referenced project on my property [redacted]. Amongst other things, the letter refers to our pool and patio area as an encroachment that may be impacted by the project. Please note that the pool, which has been there for over 30 years, is in a location that was approved by a City issued permit. As such, in addition to taking all reasonable steps to minimize the impact on my property, I trust that you will ensure the project does not cause any damage whatsoever to the pool.
>
If you would like to discuss my concerns further please contact me at the number below.
>
> Thank you.
>
>
> [redacted]
> May, 24,2021
>

Subject: RE: [EXTERNAL] RE: Malton Flood Mitigation Study [redacted]

From: [redacted]
Sent: Tuesday, May 25, 2021 4:35 PM
To: Anthony DiGiandomenico <anthony.digiandomenico@mississauga.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] RE: Malton Flood Mitigation Study

Anthony:

I am concerned about the installation of a bench, or benches at the end of the path walks. It may make sense on Etude where there is a bus stop but not on the other paths. We already have a problem with loitering on these paths and not long ago there was a problem with drug deals happening on our street. The path, along with cell phone calls, provided a quick approach and escape route from a waiting car on Capricorn Crest. Of course the police were informed and the activity has slowed down for now. However, if benches are placed at the ends of these paths, as the drawing indicates, it is just inviting this sort of activity and making it much harder to spot and report. If residents in this area see some one loitering on the path they may see it as odd and report it to the police. The police would likely take that seriously and respond. I can't imagine trying to report to the police that some one is sitting on a public bench, and have them respond. Even though the activity is the same.

[redacted]

[redacted]

Mississauga

[redacted]

---------- Original Message ----------
From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Date: May 5, 2021 at 10:21 AM

Hi[redacted],

As requested, we will add you to the project mailing list.

By copy to Derek, our consultant project manager, please add David to our mailing list.

Thank you,

Anthony

Anthony Di Giandomenico P.Eng.

Storm Drainage Engineer, Environmental Services

T 905-615-3200 ext.3491

anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department

Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2021/05/04 5:13 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Subject: Re: Malton Flood Mitigation Study

Could you please add me to your email list for information about this project.

From your drawing, it looks like trees will be planted along the fence line. Is that accurate?

[redacted]

On May 4, 2021 1:02 PM, Sonya Bell <tribebell@sympatico.ca> wrote:

Anthony:

I live at [redacted]. Your drawing of the Malton Flood Mitigation Study shows that I have four large Lilac Shrubs which are an encroachment on your flood plan. Is it possible to have city to move these either on to the city property or my property along the new fence line? It would be a shame to loose them as they provide us with privacy as well as beautification to our property.

[redacted]

[redacted]

[redacted]

[redacted]

From: [redacted]
Sent: Thursday, May 13, 2021 2:00 PM
To: Gray, Derek
Cc: Grueneis, Karl; Zandvliet, Samantha; Anthony DiGiandomenico
Subject: [EXTERNAL] Re: Question for Malton Flood Mitigation Project

Thanks Derek I really appreciate that

Have a great weekend!

[redacted]

On May 13, 2021, at 1:45 PM, Gray, Derek <Derek.Gray@aecom.com> wrote:

[redacted]

Good day, you have been added to our project mailing list.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Manager, Water Resources and Resiliency
derek.gray@aecom.com
Cell # 416 452 5390

From: [redacted]
Sent: Thursday, May 13, 2021 12:37 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] Re: Question for Malton Flood Mitigation Project

Perfect….Thanks again for all the info Anthony!

Have a great weekend

[redacted]

On May 13, 2021, at 12:31 PM, Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca> wrote:

Hi [redacted],

Thanks for reaching out about the study. As per our call this morning, I would ask Derek, our consultant project manager (copied), to have you added to our project mailing list.

Regards,
Anthony

<image001.png>

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

-----Original Message-----
From: [redacted]
Sent: 2021/05/12 11:02 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: [redacted]
Subject: Question for Malton Flood Mitigation Project

Hello Anthony,

My name is [redacted] and I'm reaching out on behalf of my Father [redacted] who lives at [redacted] Mississauga, ON L4T 1S2.

My Dad received a notice for the proposed Malton Flood Mitigation project and he was a little confused about what exactly is being planned and when this project would potentially start?

Would you be able to provide me with a clearer explanation of this project?

Our main questions are:

1. When is the project slated to begin and how long is it supposed to take to complete?
2. How would this impact my father's property?
3. Is there someone I could speak to just to get full clarity on all the details of this project so I can explain it all to my Dad?
He is an 83 year old man who has a very thick Italian accent so I try to take care of most things for him nowadays…..my cell phone is [redacted]
4. Based on the proposal that I saw it looks like the project will be removing a portion of my Dad's fence and some trees and bushes…..My Dad wanted me to pass on to the project managers that he is fine with just the fence and grass being replaced once the project is complete. He would prefer that the tress and bushes not be put back in.

Thanks so much

[redacted]

Subject: RE: Malton Flood Study

A resident reached out to the City from [redacted]). General comments were that they like the idea of the project as they have experienced flooding from the channel/Mimico Creek interaction and believed the work is long overdue. They would like more info on the outlet channel as the project moves forward.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Manager, Water Resources and Resiliency
derek.gray@aecom.com
Cell # 416 452 5390

AECOM
5090 Explorer Drive
Suite 1000
Mississauga, Ontario
L4W 4X6

www.aecom.com

Imagine it. Delivered.

Subject: RE: Impacts of storm sewer culvert construction

From: Anthony DiGiandomenico
Sent: 2021/07/26 12:09 PM
To: [redacted]
Cc: Carolyn Parrish <carolyn.parrish@mississauga.ca>; [redacted]
Subject: RE: Impacts of storm sewer culvert construction

Hello [redacted]

Thank you for reaching out about the study.

Recently, some surveying work has started in the neighbourhood to identify property lines and underground infrastructure and this may include marking the ground where necessary. Please find attached a notice which was distributed to homes earlier this month.

As part of the current Environmental Assessment stage, we will be looking into aspects of the design to respond to the feedback we have received from the community. We plan on having a Public Information Centre (PIC) in the future that will include presenting a preliminary design for public review and feedback. As the study progresses and timing for the future PIC is determined, notice will be distributed to residents in advance.

If you have any other questions please don't hesitate to contact me.

Thank you,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2021/07/23 7:39 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Carolyn Parrish <Carolyn.Parrish@mississauga.ca>; [redacted]
Subject: Re: Impacts of storm sewer culvert construction

Hello Anthony,

I was wondering if there is an update on the storm sewer culvert? We see our lawns and the walkways and roads have been marked up. Please advise.

Thank you,

[redacted]

On Jun 14, 2021, at 10:53 AM, Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca> wrote:

Good morning [redacted]

Thank you for sharing your concerns regarding maintenance of the walkway and for providing the pictures. This is something we'll be looking into per your previous comment. As such, thank you for providing this follow-up information.

If you have any other questions or concerns, please don't hesitate to contact me.

Thank you,
Anthony

<image001.png>

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2021/06/13 8:43 AM
To: Carolyn Parrish <Carolyn.Parrish@mississauga.ca>; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: [redacted]
Subject: Re: Impacts of storm sewer culvert construction

Good evening Anthony and Carolyn,

I went for a walk with my family today and I took a few pictures (posted below)of the walkways that are up for subject of proposed construction. As stated in my previous email these walkways are never maintained unless a resident calls to complain, this is another reason adding benches and a wider space is nothing that will improve the area as it will only become a bigger space with growing weeds and more garbage. I invite you to come and walk these paths and see first hand what I am writing about. The picture of the asphalt that is broken up with the orange spray paint around it, has been this way for many many years. These walkways are not maintained by the city and I think before expanding them the city should look at how neglected they are in the first place.

<image002.jpg>
<image003.jpg>
<image004.jpg>

Thank you for reading

[redacted]

On Jun 9, 2021, at 8:59 AM, [redacted] < [redacted] wrote:

Good morning Carolyn,

I am sure you are aware of the storm sewer culvert construction plan that is in place for the walkways from etude - Justine drive. Please be advised that the residents that may be affected are NOT happy. We have all wrote in with our concerns to Mr. Anthony DiGiandomenico. Please read my families concerns below and we hope we can see your support in this matter.

Thank you,

[redacted]

Begin forwarded message:

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Date: May 26, 2021 at 11:53:45 AM EDT
To: [redacted]
derek.gray@aecom.com
Subject: RE: Impacts of storm sewer culvert construction

Hello [redacted]

It is a pleasure to respond to the message you've provided on behalf of your parents.

This is to acknowledge receipt of your message as well as the concern you've raised. Based on the feedback you've provided, we're going to gather the responses that are coming back to the letter we've issued, in order that we can understand the community concerns.

For context on what the City is investigating, you'll recall there was a significant storm event that occurred in July 2013 that impacted many homes within this neighbourhood and across the City. This study was initiated to find a solution to reduce the potential impacts of flooding to properties in this specific area. We've found that a real opportunity exists to significantly reduce the potential impacts of flooding for properties adjacent to the walkway and surrounding area by replacing the existing storm sewer within the walkway with a larger box culvert storm sewer.

This is a preliminary preferred solution as we are currently in the Environmental Assessment (EA) study phase, focused on gathering

feedback from the public. As we gather the balance of feedback in the coming weeks, we can follow-up with further information.

Appreciate you taking the time to provide your feedback and if you have any other questions or concerns, please don't hesitate to contact me.

Thank you,
Anthony

<image001.png>

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

-----Original Message-----
From: [redacted]
Sent: 2021/05/19 2:36 PM
To: derek.gray@aecom.com; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: [redacted]
Subject: Impacts of storm sewer culvert construction

Hello Anthony and Derek,

I am writing on behalf of my parents [redacted].

They have some feedback In regards to the storm sewer culvert construction along the walkway. As stated in the letter they received their patio area and wood fence will be impacted and they would like to know who is going to pay to replace these things? We understand that it is City owned property but the city should have extended the walkway when it was first built rather than 40-50 years later, when the residents who have lived there for more than 20 years have established a beautiful backyard. Now that we have incurred the costs of creating a privacy fence, the City wants to come and tear it down for their benefit. The fence cost my parents $7000 and now they will need to build a new one because living beside a walkway in a crappy neighborhood has caused nothing but issues for them.

The city also wants to add benches for people to loiter. During the night people hang around in these walkways and are loud, cause issues where the police need to be called, they drink and discard their bottles into my parents backyard, spray paint the fences etc. Adding benches is not a good idea in this neighborhood. Also the only time the city actually maintains these walkways is when the residents who live beside them call the city to complain about the garbage and weeds overflowing. No one sends monthly cleaners and we know for a fact widening the walkway won't change this.

We have spoken to all the neighbours along each walkway being affected and they are not happy and are very concerned about the construction. Please expect emails from them as well.

Please advise when the expected construction date is.

Thank you

[redacted]

Subject: RE: Impact of storm sewer culvert construction along walkway - 60620028 - [redacted]

From: [redacted]
Sent: Sunday, May 30, 2021 10:21 PM
To: anthony.digiandomenico@mmississauga.ca; Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] Impact of storm sewer culvert construction along walkway

Hello Anthony and Derek,

We have some feedback in regards to the storm sewer culvert construction along the walkway. As stated in the letter we received our wood fence, four trees (two matured) and flower bed will be impacted. We understand that it is City owned property, but the City should have extended the walkway when it was built, rather than 50 years later, when the residents lived there many years established beautiful backyards. Now the City want to tear down the fence, cut down the mature trees for own benefit. We will need to rebuild wooden fence later, (what will be hard-I'm already senior citizen, and my wife will be in one year) to have some privacy, because living beside walkway in not so great neighborhood has caused nothing but issues. The City also wants to add benches-this is very bad idea, because will create much more problems with loitering and other wrongful activities. During the night people hang around in these walkways and are loud, cause issues where police need to be called, they drink and often discard empty bottles and other garbage(few times really terrible items) into our backyard. Also the only time the City actually maintains these walkways is when somebody from residents call the City to complain about the garbage and overflowing weeds. No one sends cleaners regularly, and we know for fact widening the walkway and especially adding benches only will make this problem much worst. We spoken to all the neighbours along walkways being affected and they are very unhappy and concerned about widening the walkway.
Regards,

[redacted]

Subject: RE: Malton Flood Mitigation: Placement of fence

From: Anthony DiGiandomenico
Sent: 2021/07/26 12:12 PM
To: [redacted]
Cc: Carolyn Parrish <carolyn.parrish@mississauga.ca>
Subject: RE: Malton Flood Mitigation: Placement of fence

[redacted]

Thank you for providing your feedback and potential concerns.

This is to acknowledge receipt of your message as well as the concerns you've raised.

As part of the current Environmental Assessment stage, we will be looking into aspects of the design to respond to the feedback we have received from the community, including your feedback provided below.

We plan on having a Public Information Centre (PIC) in the future that will include presenting a preliminary design for public review and feedback. As the study progresses and timing for the future PIC is determined, notice will be distributed to residents in advance.

Appreciate you taking the time to provide your feedback and if you have any other questions or concerns please don't hesitate to contact me.

Thank you,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: [redacted]
Sent: 2021/07/25 9:58 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Carolyn Parrish <Carolyn.Parrish@mississauga.ca>
Subject: Malton Flood Mitigation: Placement of fence

RE: Malton Flood Mitigation: Placement of fence

Anthony:

I live at [redacted] The new walkway proposed for the flood mitigation program is going to pass beside our house. I would like to suggest that once all the excavation is completed and the sewer box is installed, that the new fence be once again installed right beside the walkway with no new green space added. My concern is, if the new fence is placed on the property line as shown in the drawing and a few feet of green space is added beside the walkway, that this new space will increase the cases of loitering that the residents in the effected area are already experiencing.

As it is, we are all ready having to deal with people pacing up and down the path for 30mins. at a time yelling into their cell phones with the phone setting on speaker. We also have others who like to gather in groups to loudly talk while eating take out food. Of course the food containers are tossed on the path for others to pick up.

My other concern is the up keep of the new green space. How often is the city realistically going to come by and cut the grass or trim what ever bushes are planted there. How much is this going to cost tax payers for the added upkeep. As it is now, the home owners cut the city own property when they cut their own lawn and maintain any bushes that my be there. I might also add that at present there is a small amount of grass by the existing path which is supposed to by maintained by the city. However, it is only trimmed a few times a year and I usually feel the need to trim it myself on a regular basis.

Given the potential for Lottering and the extra costs involved for maintenance, I think it only makes sense to install the new fence beside the walkway and not on the property lines.

Thank you

[redacted]

[redacted]

[redacted]

[redacted]

Subject: RE: Re: Automatic reply: Re: response - 60620028 - [redacted]

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: Friday, August 12, 2022 1:38:32 PM
To: Gray, Derek <Derek.Gray@aecom.com>
Subject: RE: Re: Automatic reply: Re: response - 60620028 - [redacted]

Hi Derek,

I had a call today with [redacted] the resident at [redacted]., to answer some of his study questions. If [redacted] is not already on the project mailing list could you please add him.

Thanks,
Anthony

From: Gray, Derek <Derek.Gray@aecom.com>
Sent: 2022/08/10 1:12 PM
To: [redacted] Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Subject: RE: [EXTERNAL] Re: Automatic reply: Re: response - 60620028 - [redacted]

[redacted] just for clarity I work for AECOM who was retained by the City of Mississauga for the issue associated with the flooding along the pathway. I am neither a resident of Mississauga (Toronto) or an expert in permits required for residential construction/renovations.

A couple of options, this link takes you to the City's website where the requirement of building permits are laid out Building permits – City of Mississauga. The Contact us – City of Mississauga section of the website lists a number of options including 311 and an online form for inquiries. My experience with the 311 system in Toronto has been positive when calling about complaints about construction in my neighbourhood.

Anthony may also be able to provide some additional direction.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Climate Change Specialist
derek.gray@aecom.com

I work flexibly. I am sending this message now because it suits me. I do not expect you to read, action or respond out of your own working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday afternoon.

From: [redacted]
Sent: August 10, 2022 12:31 PM
To: Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] Re: Automatic reply: Re: response - 60620028 - [redacted]

Derek thanks for returning my message.I know your busy trying to get proper depts or people who can help is trying at times. Can you guide me to proper people who can help with concerns a nieghbour is having a possibe improper construction of a front porch
a shed and wideing of a driveway at [redacted]. The person with the concern is [redacted] in malton.[redacted].really would be helpful thanks in advance.
On Tuesday, August 9, 2022 at 03:43:28 p.m. EDT, Gray, Derek <derek.gray@aecom.com> wrote:

[redacted], my apologies for not responding sooner. Your email came in on my personal phone and I thought it was one of my neighbours as we had and fence installed recently.

We're currently working on progressing the conceptual design based on feedback we've received from the community to-date. We anticipate sharing more project information and gathering additional input from the public in the fall with notification provided in advance. Similar to my past email, the edge of the City owned land is approximately 2.3m beyond the current fence line in your general area.

I've also included Anthony DiGiandomenico the City Project Manager in this email.

Stay well,

Derek R. Gray, P.Eng., A.A.E.

Climate Change Specialist

derek.gray@aecom.com

I work flexibly. I am sending this message now because it suits me. I do not expect you to read, action or respond out of your own working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday afternoon.

From: [redacted]
Sent: August 9, 2022 12:49 PM
To: Gray, Derek <Derek.Gray@aecom.com>
Subject: Re: Automatic reply: Re: response

hi derek can you update me on sewer system.also what distance from existing fence on property will be lost.been over a year . any dates on meetings with owners. thanks owner [redacted]

On Friday, August 5, 2022 at 10:47:37 p.m. EDT, Gray, Derek <derek.gray@aecom.com> wrote:

I am currently out of the office with no access to email and will return in the afternoon of August 9th.

Stay Well,

Derek

[redacted], good afternoon. Please consider this a follow-up to our earlier conversation. I apologize I wasn't able to provide better answers at the time.

As mentioned the City's owned lands along the walkway are actually 7.5m wide (approximately 22.5') wide which would translate into approximately 2.25m (approximately 6.75') on each side of the existing fences. Specific to your property this will be confirmed going forward through a legal survey.

During our call you brought up the following concerns:

- Trees – any existing trees in the City lands would be removed and compensated for. I'm just going back to see what trees we included in the graphic as a potentials replacement for trees that would be removed due to the construction.
- Fences – at the completion of work the City will be installing fences at the property line once the work is complete. What that will look like hasn't been decided yet.
- Benches – you are not in favour of the benches as it would encourage more loitering.
- Ongoing maintenance – you had mentioned that you think the City's maintenance visits need to be increased.

I have your phone number as [redacted]

I've cc'd Anthony the Project Manager from the City as well as Karl and Sam from AECOM who are keeping track of all comments and ensuring that individuals are added to the project database for future communications.

If I missed something or misrepresented our conversation please feel free to add or correct. It would be beneficial if you could confirm receipt of this email.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E.

Manager, Water Resources and Resiliency

derek.gray@aecom.com

Cell # 416 452 5390

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5090 Explorer Drive

Suite 1000

Mississauga, Ontario

L4W 4X6

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From: Gray, Derek
Sent: Thursday, May 20, 2021 6:05 PM
To: [redacted]
Cc: Anthony DiGiandomenico; Grueneis, Karl; Zandvliet, Samantha
Subject: Malton Flood Study - [redacted]

[redacted] good afternoon. Please consider this a follow-up to our earlier conversation. I apologize I wasn't able to provide better answers at the time.

As mentioned the City's owned lands along the walkway are actually 7.5m wide (approximately 22.5') wide which would translate into approximately 2.25m (approximately 6.75') on each side of the existing fences. Specific to your property this will be confirmed going forward through a legal survey.

During our call you brought up the following concerns:

- Trees – any existing trees in the City lands would be removed and compensated for. I'm just going back to see what trees we included in the graphic as a potentials replacement for trees that would be removed due to the construction.
- Fences – at the completion of work the City will be installing fences at the property line once the work is complete. What that will look like hasn't been decided yet.
- Benches – you are not in favour of the benches as it would encourage more loitering.
- Ongoing maintenance – you had mentioned that you think the City's maintenance visits need to be increased.

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I've cc'd Anthony the Project Manager from the City as well as Karl and Sam from AECOM who are keeping track of all comments and ensuring that individuals are added to the project database for future communications.

If I missed something or misrepresented our conversation please feel free to add or correct. It would be beneficial if you could confirm receipt of this email.

If you have any questions or concerns I'm available at your convenience. The best way to reach me is via email.

Stay well,

Derek R. Gray, P.Eng., A.A.E.
Manager, Water Resources and Resiliency
derek.gray@aecom.com
Cell # 416 452 5390

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Appendix I

Agency and Stakeholder Consultation Record

AECOM

External Agency and Stakeholder Contact List

Malton Flood Mitigation Study – Etude Drive to Justine Drive
External Agency and Stakeholder Distribution List

Category	Organization	First Name	Last Name	Position	Address	City	Province	Postal Code	Email
Provincial	Ministry of Citizenship and Multiculturalism	Karla	Barboza	Heritage Land Use Planning	Suite 1700, 401 Bay Street	Toronto	ON	M7A 0A7	karla.barboza@ontario.ca
Provincial	Ministry of Citizenship and Multiculturalism	Dan	Minkin	Heritage Planner	Suite 1700, 401 Bay Street	Toronto	ON	M7A 0A7	Dan.Minkin@ontario.ca
Provincial	Ministry of Natural Resources and Forestry - Aurora District	Maria	Jawaid	District Planner	50 Bloomington Road	Aurora	ON	L4G 0L8	maria.jawaid@ontario.ca
Provincial	Ministry of the Environment, Conservation and Parks			EA Registry Email					eanotification.cregion@ontario.ca
Provincial	Ministry of the Environment, Conservation and Parks	Trevor	Bell	Environmental Planner/Environmental Assessment Coordinator					Trevor.Bell@ontario.ca
Provincial	Infrastructure Ontario	Lisa	Myslicki	Environmental Specialist - Realty Portfolio Planning, Environmental Services	1 Dundas Street West, Suite 2000	Toronto	ON	M5G 1Z3	lisa.myslicki@infrastructureontario.ca noticereview@infrastructureontario.ca
Conservation Authority	Toronto and Region Conservation Authority	Shirin	Varzgani	Senior Planner, Infrastructure Planning and Permits	101 Exchange Avenue	Vaughan	ON	L4K 5R6	shirin.varzgani@trca.ca
Conservation Authority	Toronto and Region Conservation Authority	Suzanne	Bevan	Senior Planner, Infrastructure Planning and Permits	101 Exchange Avenue	Vaughan	ON	L4K 5R6	Suzanne.Bevan@trca.ca
Conservation Authority	Toronto and Region Conservation Authority	Annette	Lister	Planner	101 Exchange Avenue	Vaughan	Vaughan	Vaughan	annette.lister@trca.ca
Conservation Authority	Toronto and Region Conservation Authority	Nick	Lorrain		101 Exchange Avenue	Vaughan	Vaughan	Vaughan	Nick.Lorrain@trca.ca
Region	Region of Peel	Sally	Rook	Manager of Infrastructure Programming and Studies	10 Peel Centre Drive, Suite B, 4th Floor	Brampton	ON	L6T 4B9	sally.rook@peelregion.ca
Region	Region of Peel	Joanna	Pietkiewicz	Capital Works Wastewater Collection and Conveyance	10 Peel Centre Drive, Suite B, 4th Floor	Brampton	ON	L6T 4B9	joanna.pietkiewicz@peelregion.ca
Region	Region of Peel	Kathryn	Lockyer	Regional Clerk	10 Peel Centre Drive, Suite A, 5th Floor	Brampton	ON	L6T 4B9	regional.clerk@peelregion.ca kathryn.lockyer@peelregion.ca
Region	Region of Peel	Marwan	Kassay	Project Manager, Housing Development Office	10 Peel Centre Drive	Brampton	ON	L6T 4B9	Marwan.Kassay@peelregion.ca
Region	Region of Peel	Brett	Barnes	Housing Development Office	10 Peel Centre Drive	Brampton	ON	L6T 4B9	Brett.Barnes@peelregion.ca
Region	Region of Peel	Wayne	Koethe	Principal Planner Development Services Division, Public Works	10 Peel Centre Drive, Suite A, 6th Floor	Brampton	ON	L6T 4B9	Wayne.Koethe@peelregion.ca
Region	Region of Peel	Asha	Saddi	Technical Analyst, Infrastructure Programming & Studies	10 Peel Centre Drive	Brampton	ON	L6T 4B9	asha.saddi@peelregion.ca
Region	Region of Peel			ZZG-PWI general inbox					pwi@peelregion.ca
Indigenous Communities	Mississaugas of the New Credit First Nation	Abby	LaForme	Consultation Coordinator	6 First Line R.R.#6	Hagersville	ON	N0A 1H0	Abby.LaForme@mncfn.ca
Indigenous Communities	Mississaugas of the New Credit First Nation	R. Stacey	LaForme	Chief	6 First Line R.R.#6	Hagersville	ON	N0A 1H0	Stacey.LaForme@mncfn.ca
Indigenous Communities	Six Nations of the Grand River	Mark	Hill	Grand Chef	1695 Chiefswood Road, PO Box 5000	Ohsweken	ON	N0A 1M0	markhill@sixnations.ca
Indigenous Communities	Six Nations of the Grand River	Lonny	Bomberry	Lands and Resources Director	1695 Chiefswood Road, PO Box 5000	Ohsweken	ON	N0A 1M0	lonnybomberry@sixnations.ca
Indigenous Communities	Six Nations of the Grand River	Tanya	Hill-Montour	Archaeology Supervisor	2498 Chiefswood Road P.O. Box 5000	Ohsweken	ON	N0A 1M0	tanyahill-montour@sixnations.ca
Indigenous Communities	Haudenosaunee Confederacy Chiefs Council	Tracey	General	Senior Administrator	16 Sunrise Court, Suite 600	Ohsweken	ON	N0A 1M0	hdi2@bellnet.ca traceyghdi@gmail.com info@hdi.land
Indigenous Communities	Huron-Wendat Nation	Dominic	Ste-Marie						dominic.ste-marie@wendake.ca
Utilities	Enbridge Pipelines Inc.	Samir	Patel		500 Consumers Road,4th Floor - Post A2 - VPC	North York	ON	M2J 1P8	mark-ups@enbridge.com
Utilities	Union Gas	Enzo	Greco	Construction Project Manager	918 South Service Road	Stoney Creek	ON	L8E 5M4	egreco@uniongas.com
Utilities	Hydro One								secondarylanduse@hydroone.com
Utilities	Bell Canada	Kevin	Lee		c/o Netricom Inc. ,200 Town Centre Blvd, Suite 300	Markham	ON	L3R 8G5	Kevin.li@netricom.com
Utilities	Rogers Communications	Lily	Apa		244 Newkirk Road	Richmond Hill	ON	L4C 3S5	Lily.Apa@rci.rogers.com
Utilities	Telus	Indira	Sharma		c/o Netricom Inc. ,200 Town Centre Blvd, Suite 300	Markham	ON	L3R 8G5	telusutilitymarkups@netricom.com
Utilities	Alectra Utilities								RecordsMississauga.Info@alectrautilities.com
Education	Peel District School Board				5650 Hurontario Street	Mississauga	ON	L5R 1C6	communications@peelsb.com
Education	Dufferin-Peel Catholic District School Board	Nancy	Marshall	Communications Officer	40 Matheson Boulevard West	Mississauga	ON	L5R 1C5	nancy.marshall@dpcdsb.org
Other	Malton BIA			BIA	3091 Vicotry Crescent	Mississauga	ON	L4T 1R4	info@maltonbia.com

AECOM

Meeting Minutes

Minutes of Meeting

Meeting Name Malton Flood Mitigation Study – Etude Drive to Justine Drive	**Subject** Meeting with TRCA on Preferred Alternative
Meeting date 10-September-2020	**Time** 1:30 PM
Location Microsoft Teams	**AECOM Project Number** 60620028
Prepared By: AECOM	**TRCA File Reference** CFN 62948 Malton Flood Mitigation EA

Attendees:
Anthony DiGiandomenico (AD), Capital Project Manager, City of Mississauga
Derek Gray (DG), Project Manager, AECOM
Ken Pun (KP), Senior Water Resources Engineer, AECOM
Emily Cameron (EC), Water Resources Engineer, AECOM
Ben Harris (BH), Water Resource Engineering Intern, AECOM
Rhonneke Van Riezen (RR), Senior Fluvial Geomorphologist, AECOM
Sharon Lingertat (SrL), Senior Planner, TRCA
Dilnesaw Chekol (DC), Senior Engineer, TRCA
Shannon Logan (SnL), Senior Program Manager Sustainable Neighbourhoods, TRCA

Ref	Item	Action
01	**Introduction** – As per the above.	**INFO**
02	**Safety Moment** – With regards to the changing daylight hours DG provided a tips for ensuring visibility when walking at night including making sure you are visible (headlamp/flashlight, reflective clothing, arm/ankle bands), walk facing traffic, staying on sidewalks whenever possible and ensure people know where you are going. Tips were summarized from the following third-party website that AECOM neither endorses nor supports. https://blog.myfitnesspal.com/5-safety-tips-for-walking-at-night/	**INFO**
03	**Malton Flood Mitigation Study – Etude Drive to Justine Drive**	
	EC reviewed the attached presentation that provided an overview of the work AECOM has completed to date and the resulting preliminary preferred solution. In arriving at the preliminary preferred solution AECOM examined a numerous option that were shortlisted into five alternatives: • LID alternatives were examined but found to have only minor impact on flood reduction for the larger events • As funding for this work is from the Mississauga Stormwater Levy private side improvements can not be included. • Storage alternatives would work in theory however, the required volumes are significant resulting in very disruptive construction, extremely high costs while still leaving many homes impacted by flooding • Storage solutions at the outfall were also determined to be very costly and unfeasible due to the location in the floodplain • Conveyance solution was found to be the most practical and cost effective with increased capture capacity which would result in increased flow at the outfall	**INFO**

The preliminary preferred solution is to replace the existing 1650mm storm sewer in the easement with a 1.7x2.7m box culvert along with several custom catchbasins along the sewer replacement along with flow dissipation at the outfall. This is the most effective at reducing the number of homes impacted and from a cost perspective. Impact from construction would be limited to those houses along the easement and Honeysuckle.

The impact of the preliminary preferred alternative downstream increase in flow was assessed including the flow, water surface elevation and velocities and generally considered to be minor apart from the immediate vicinity of the outfall. Derry Road is already overtopped in a Regional event and does not quite meet clearance or freeboard criteria under existing conditions.

As the outfall would need to be reconstructed to accommodate the 1.7x2.7m box culvert flow dissipation/reduction at the outfall has been reviewed at a high level to mitigate and can easily be incorporated.

AECOM is keeping current with other work being completed for the City of Mississauga including the nearby erosion mitigation work and the Master Plan for Paul Coffey Park which identified some areas of high flood risk.

Discussion of following occurred during and after the presentation:

- AECOM confirmed that under this project there is no change in land use or imperviousness, and it is strictly to convey flow to prevent flooding.
- The model developed by Matrix did not include the minor system
- LIDs were considered as part of the alternatives but didn't provide a viable solution for reduction of flooding. AECOM will consider opportunities to incorporate LID from a water quality and in-stream erosion control perspective during the detailed design. **AECOM**
- Changes in flows is not considered to be an issue due to the timing alignment of the flows and the differences between the models and the storms used. **AECOM**
- When doing the detailed design for the outfall and flow dissipation TRCA requested that Natural Channel Principles be followed.
- SrL asked if the changes in flows will impact the residents at the outlet as a result of increased flood elevations or erosion issues. **AECOM**
- SrL asked whether the changes in flows will impact the proposed work in Paul Coffey Park and whether certain areas be brought into greater flood risk.
- SnL identified community benefits/value added associated with the project (e.g. improved path, new fence, benches?, tree planting in the area?, etc.), and make sure to highlight those in the PIC
- SnL noted that if possible, it would be beneficial to talk with local contacts about this community to help understand what people might be interested in and what LID might be of interest. Use the PIC as an opportunity to share information and how-to resources with residents regarding the LID that would support this project (e.g. rain barrels, rain gardens, trees, etc.)
- SnL suggested that in the evaluation process, consider adding criteria based on the needs/broader issues in the neighbourhood. Malton is an regionally significant urban heat hot spot, so assess to what degree each alternative measures up to:
    - reducing ground surface temps,
    - increasing amount of green infrastructure
    - providing an improved aesthetic

	DC requested that AECOM provide TRCA with the models for the preliminary preferred alternative.	
04	**Next Steps**	
	As TRCA agrees with the preliminary preferred alternative AECOM will begin the next steps associated with the Environmental Assessment including the following studies and professionals: • Natural Environment • Heritage • Archaeology • Fluvial geomorphology • Landscape architects • Arborists A Pubic Information Centre (PIC) will be scheduled in the fall. In light of COVID-19 it is uncertain what format this will be. Mississauga and AECOM will use this as an opportunity to educate the public about source control measures including the disconnection of and preferred discharge method for downspouts. AECOM will leverage the information included in the City's website (http://www.mississauga.ca/portal/stormwater/flooding) and the *Residential Guide to Flood Prevention and Recovery.* Following the PIC, AECOM will begin the detailed design and will investigate opportunities for improving the aesthetics of the easement and incorporation of LID.	**AECOM**
	AECOM will need a TRCA point of contact for its ongoing studies for this project.	**TRCA**
05	**Closure** – Meeting ended at 2:30 PM	

Please advise within three business days if there are any material corrections or omissions.

Attachments:

- Presentation – "Malton Flood Mitigation Study – Etude Drive to Justine Drive"

AECOM Imagine it. Delivered.

Malton Flood Mitigation Study – Etude Drive to Justine Drive City of Mississauga

SWM Presentation for the TRCA

Presented by: Emily Cameron, P.Eng

BACKGROUND

- On July 8, 2013 there was a significant rainfall event that crossed the GTA
- The community of Malton in Mississauga was especially inundated
- The event through this area was later equated to a 1:350-year storm
- The TRCA set up a study to analyze the flooding to determine which areas of Malton were most impacted
- The company Matrix Solutions Inc. was retained to complete a Flood Characterization Study for Malton, which they completed in March, 2018
- Their report outlines the assumptions made, methodology used and modelling completed to determine the inundation of the July 8th event, as well as the 2-year through Regional events
- Their report also grouped main flooding concerns into nine (9) clusters
- The City reviewed these clusters and identified Flood Cluster 6 (Etude to Justine) as a high priority site
- The City is in the process of completing an erosion control project for Mimico Creek from Etude Dr. to Derry Rd. to rehabilitate creek and address some existing erosion issues
- The City's "Paul Coffey Park Master Plan" is nearing completion south of the site

STUDY AREA

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EXISTING CONDITIONS

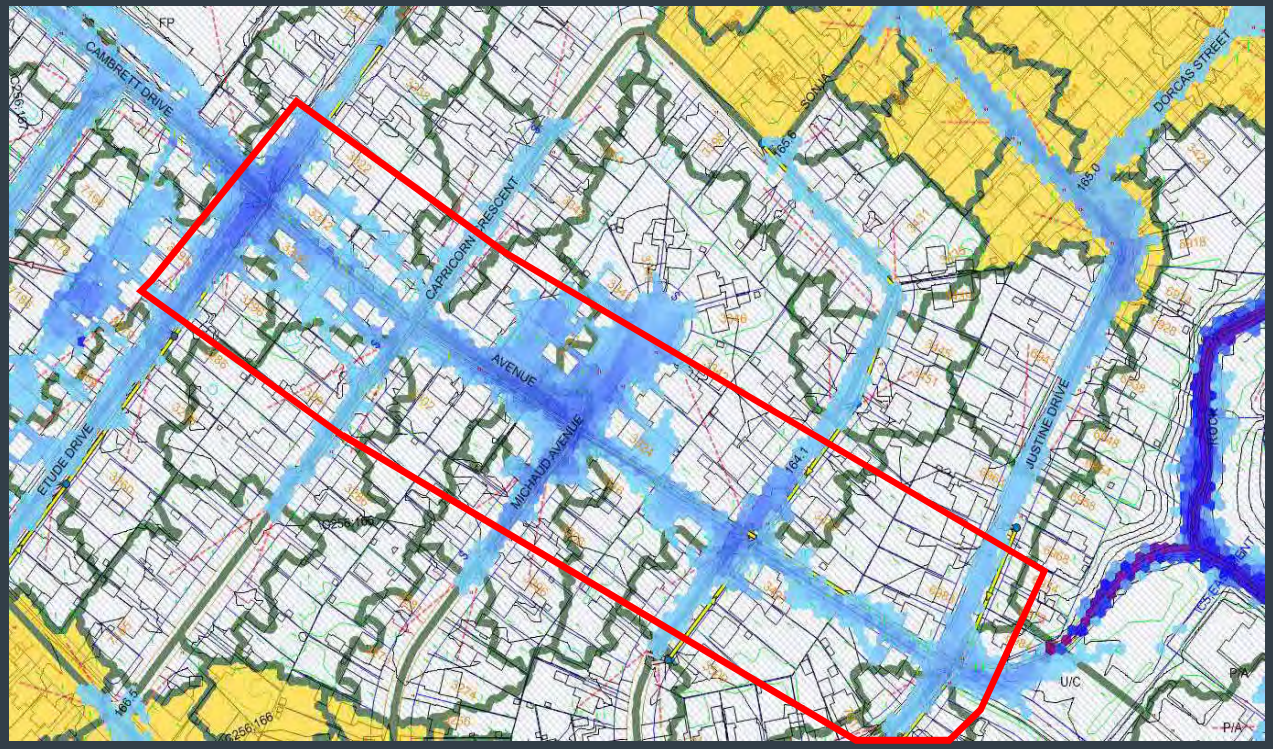
- AECOM was retained to analyze impacts in Flood Cluster 6
- The 1D-2D PCSWMM models Matrix prepared were obtained by AECOM
- The model was truncated to focus on Flood cluster 6 and reduce run time
- Within Flood Cluster 6 the minor system had previously not been included, and so as-built information was obtained from the City and existing storm sewers were added to the model within the study area and upstream
- Subcatchment and rain gauge data were adjusted accordingly, and inlets were added
- The updated PCSWMM model was run for all storm events to determine the existing minor and major conditions for the flood cluster

EXISTING CONDITIONS

During a 100-year storm 37 houses would be impacted along the overland flow easement from Etude Dr. to Justine Dr.

(100-year floodlines shown in figure)

For more frequent storm events houses are impacted by flooding as well. Existing modelling shows that 9 houses are impacted during a 2-year storm and 14 are impacted during a 5-year.



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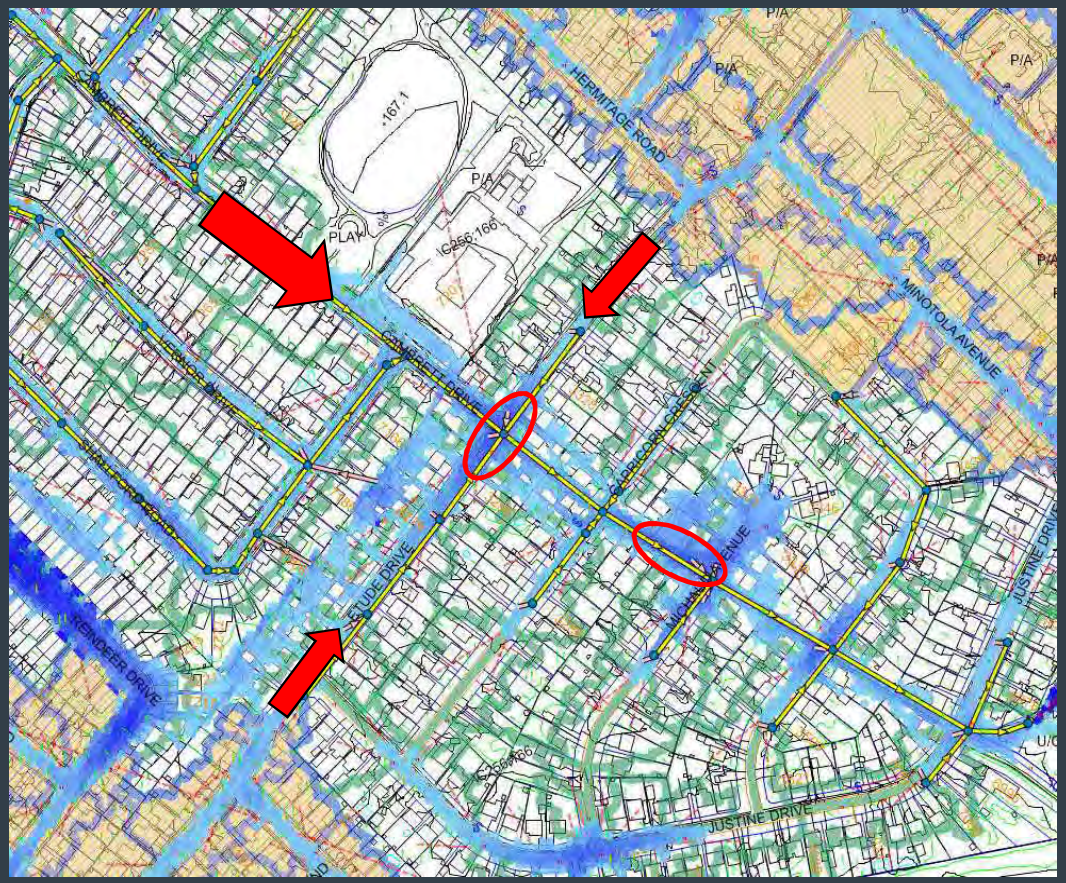
EXISTING CONDITIONS

- The top end of the easement (at Etude) is receiving minor and major flow from the east, west and north (arrows)
- The minor system in this area is not able to capture and convey even the 2-year event
- The existing easement was not designed to convey significant flows, as it is flush with adjacent properties
- Existing depressions along the easement result in significant ponding before spilling to the downstream section (main depressions circled)
- The entire area seems to act like a basin during storm events, filling up and flooding properties until spilling downstream



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EXISTING CONDITIONS

Photos of the existing easement

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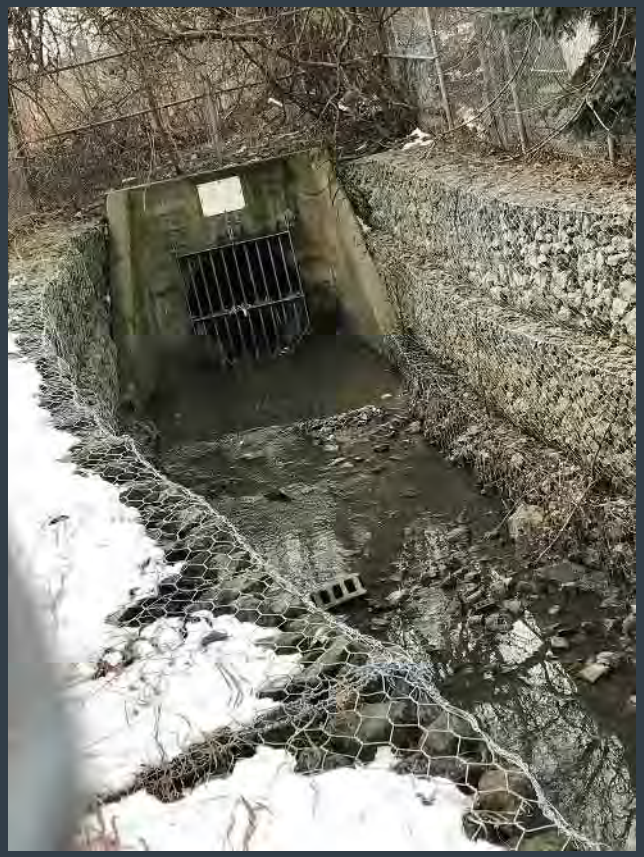
EXISTING CONDITIONS

Photos of the outfall channel



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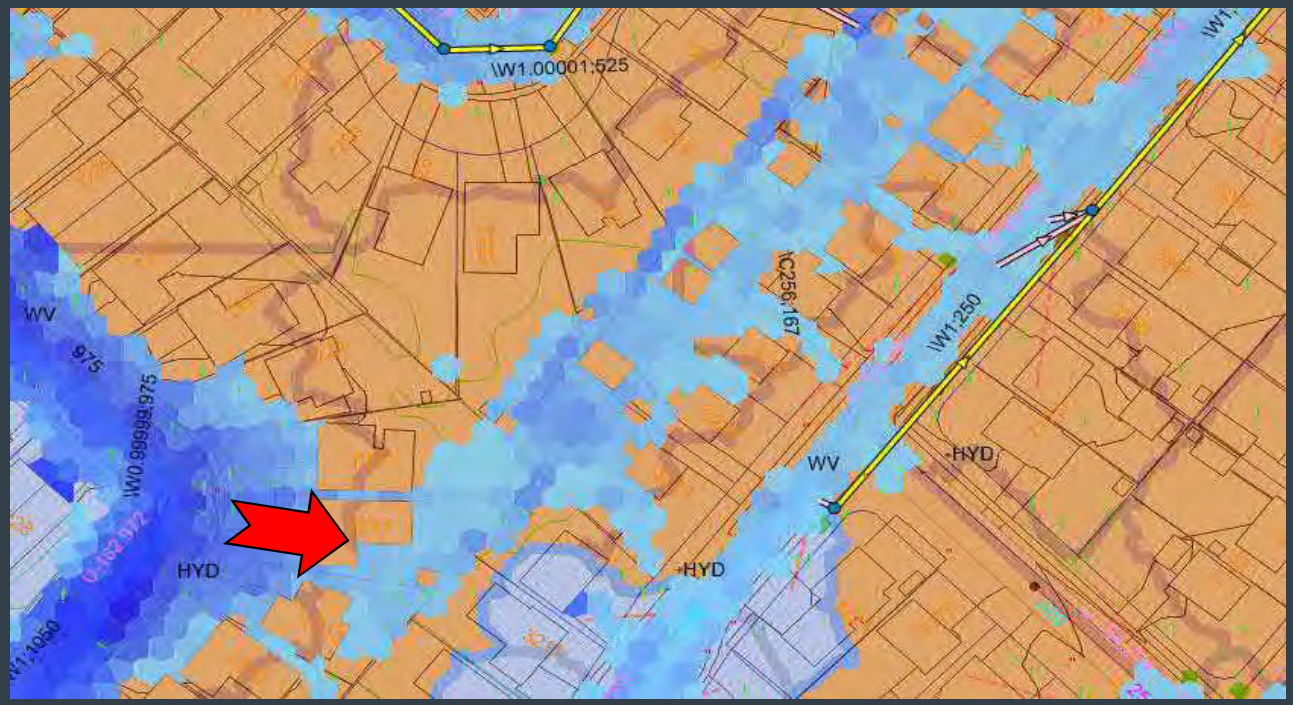
EXISTING CONDITIONS

- Flooding along the north side of Etude Dr. is due to upstream flooding on Reindeer Dr. which spills to the lower backyards on Etude
- Reindeer Dr. is within Flood Cluster 7, not within the scope of this project
- The impacted houses along Etude Dr. were not accounted for in the Flood Cluster 6 tally
- However, the spill from this area to Etude Dr. was accounted for in the modelling of alternatives



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PROPOSED CONDITIONS

- A long list of possible alternatives was put together to ensure that all mitigation measures were considered, possibly in combination, in hopes to eliminate flooding impacts within Flood Cluster 6
- In total, eleven possible solutions were included on the long list for consideration
- The long list includes different types of quantity control measures, including;
  - conveyance measures
  - storage / retention solutions
  - LID measures
  - Note: Source Control measures were not considered primarily due to their expected small impact on flood reduction for the larger storm events and inability for the City to ensure maintenance

PROPOSED CONDITIONS

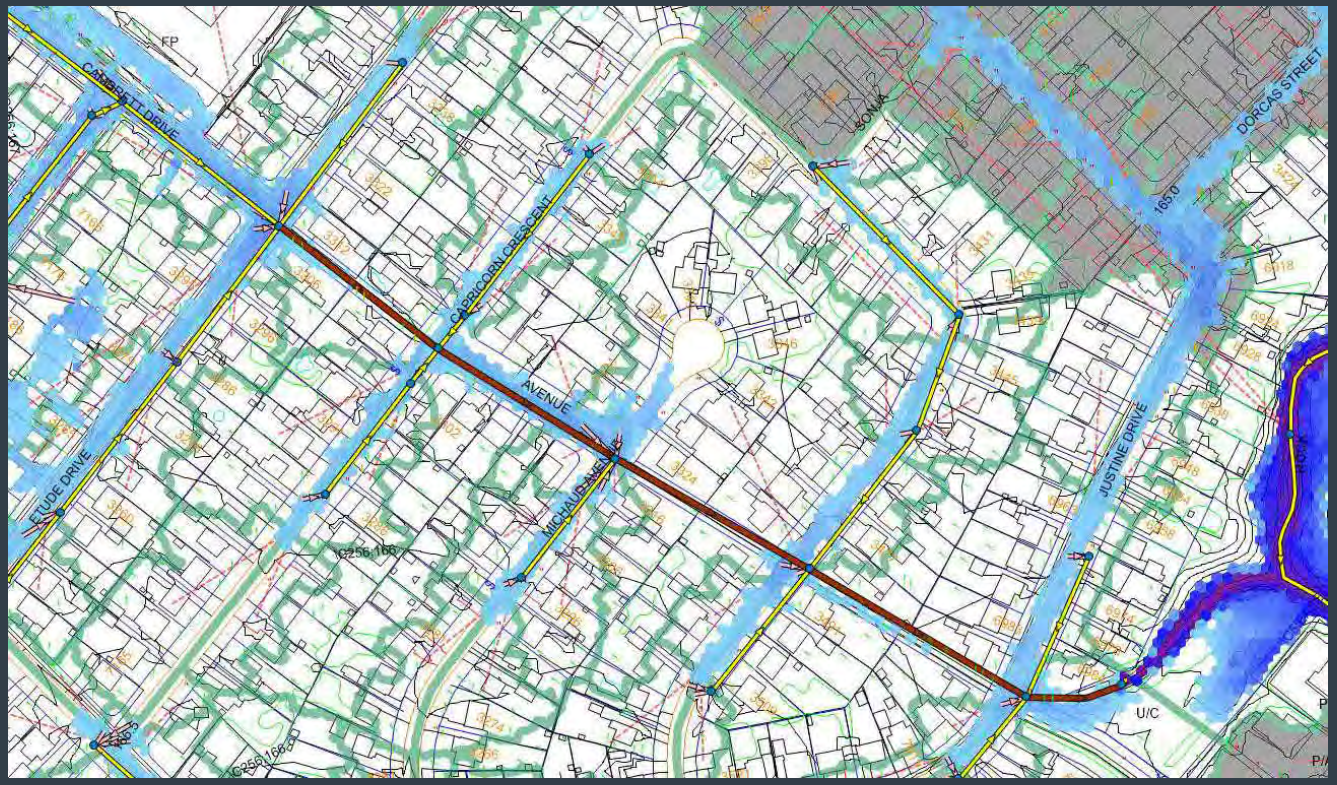
- These possible solutions were evaluated against five criteria;
  - Constructability
  - General cost
  - Social disruption
  - Environmental impact
  - Flood reduction
- The long list was then reduced to a short list of five possible alternatives, which are combinations of the remaining long list solutions

PROPOSED CONDITIONS

- LID alternatives were found to have too small an impact on flood reduction for the larger storm events
- Storage alternatives would work in theory, however, the required storage volume would be significant, resulting in very disruptive construction and impractically high costs, while still leaving many homes effected by flooding
- A conveyance solution would be the most practical and cost-effective for the study area
  - The capture capacity would have to increase as well as the conveyance capacity
  - The flow at the outfall would increase and should therefore be analysed to determine impacts downstream

PRELIMINARY PREFERRED SOLUTION

- Replace 1650mm storm sewer with 1.7m x 2.7m box sewer in City's easement
- Add several, possibly custom, catch basins along sewer replacement
- Provide flow dissipation at outfall, if possible
- Most effective at reducing the number of homes effected during the 100-year event (only 4 houses remain impacted)
- Most cost effective solution
- Would cause some disruption for adjacent residents



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DOWNSTREAM IMPACTS

- Impacts of the preferred alternative were considered downstream of the site
- The 12-hour AES storm was run through PCSWMM to determine existing and proposed flows at the outfall for the 100-year storm as well as the Regional event

	Peak Flow (m^3/s)			% Increase
	Existing	Proposed	Increase	
12hr AES 100-year storm	9.61	11.38	1.76	18%
Regional event	10.07	13.50	3.43	34%

– These increases were modelled by updating the hydrology model to account for the flow increase at the outfall and determine flow impacts downstream
– The proposed flows were then input into HEC-RAS to determine impacts to downstream water levels

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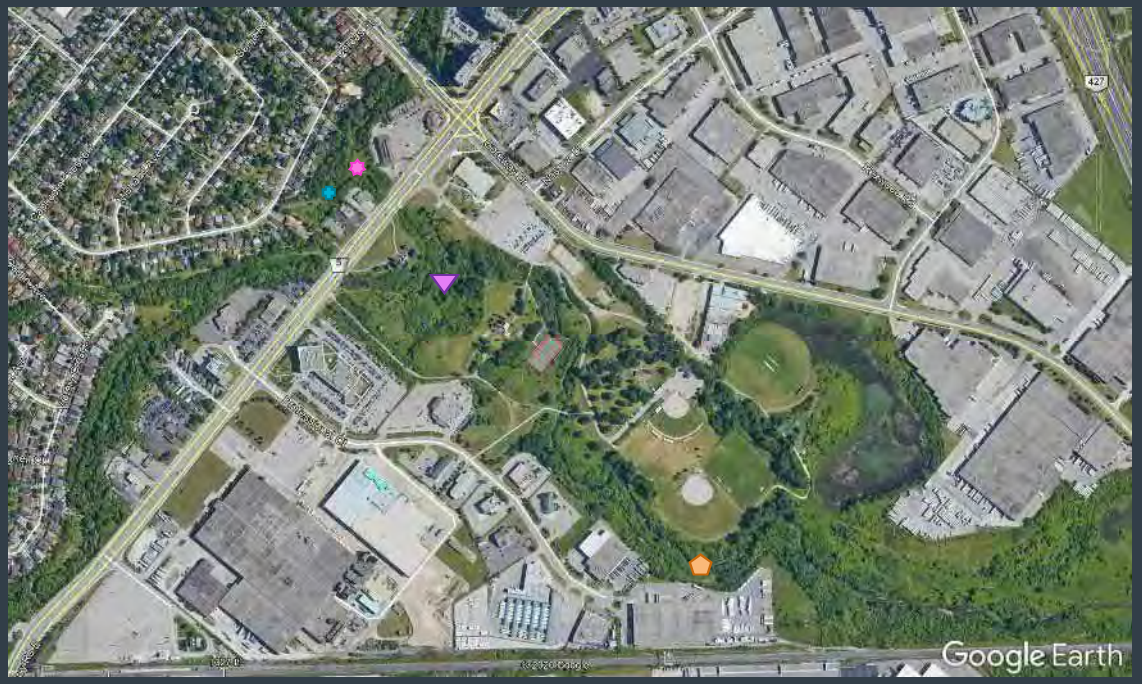
DOWNSTREAM IMPACTS

- The VH model was updated to represent proposed conditions for Catchment 134 (which encompasses the entire drainage area to the outfall), increasing the 100-year peak flow to 11.4 m^3/s to match PCSWMM
- By the tributary confluence just south of Derry Road, the increase is less than 1%

Hydrology Comparison Downstream

		100yr		Difference		
VH Node	*Approx. Location*	*Ex. Q*	*Prop. Q*	*m^3/s*	*%*	
134	Outfall	9.50	11.37	1.87	19.7%	
221	Outfall merges w Creek	51.20	53.07	1.87	3.7%	
233	East & West Confluence	103.11	104.98	1.87	1.8%	
240	B/w soccer field & Home Depot	89.85	90.24	0.39	0.4%	1km D/S
241	D/S rail crossing	90.00	90.46	0.46	0.5%	
224	U/S Hwy 427	116.21	118.38	2.17	1.9%	
225	U/S Hwy 409	100.60	101.56	0.96	1.0%	
251	D/S Hwy 409	112.34	113.80	1.46	1.3%	
254	Dixon Rd.	107.07	108.03	0.97	0.9%	
246	Eglinton	113.18	114.28	1.10	1.0%	
249	Near Milburn Dr.	115.29	116.40	1.11	1.0%	
250	Rathburn	116.11	117.12	1.00	0.9%	11.6km D/S



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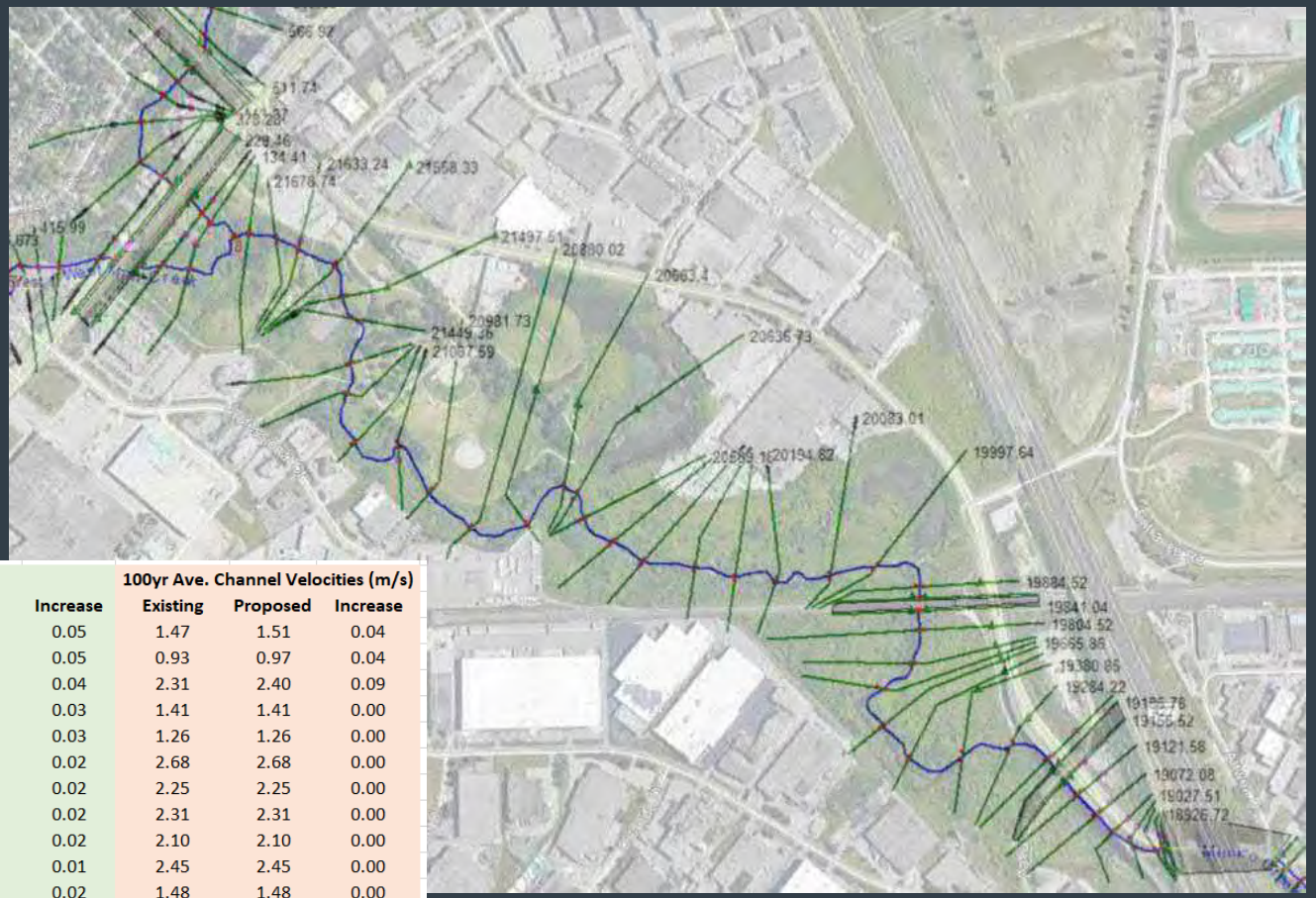
DOWNSTREAM IMPACTS

- The proposed flows were included in HEC-RAS to determine water level and velocity changes downstream for the 100-year event



Water Surface Elevations to Compare (not all)				100-year			100yr Ave. Channel Velocities (m/s)		
River	Reach	RS	Location	Existing	Proposed	Increase	Existing	Proposed	Increase
East Mim Creek	East 1	306.98	U/S of outfall	162.59	162.64	0.05	1.47	1.51	0.04
East Mim Creek	East 1	233.17	@ Outfall	162.60	162.65	0.05	0.93	0.97	0.04
East Mim Creek	East 1	157.31	U/S Derry	162.29	162.33	0.04	2.31	2.40	0.09
East Mim Creek	East 1	61.73	U/S of confluence	162.11	162.14	0.03	1.41	1.41	0.00
Mimico Creek	3	21729.24	Confluence D/S Derry	162.11	162.14	0.03	1.26	1.26	0.00
Mimico Creek	3	21633.24	100m D/S of confluence	161.67	161.69	0.02	2.68	2.68	0.00
Mimico Creek	3	21497.51	230m D/S of confluence	161.32	161.34	0.02	2.25	2.25	0.00
Mimico Creek	3	21353.5	375m D/S of confluence	161.15	161.17	0.02	2.31	2.31	0.00
Mimico Creek	3	21197.67	530m D/S of confluence	160.78	160.80	0.02	2.10	2.10	0.00
Mimico Creek	3	20981.73	750m D/S of confluence	160.14	160.15	0.01	2.45	2.45	0.00
Mimico Creek	3	20768.48	960m D/S of confluence	160.16	160.18	0.02	1.48	1.48	0.00
Mimico Creek	3	20636.73	1.1km D/S of confluence	159.74	159.76	0.02	1.36	1.37	0.01
Mimico Creek	3	20194.82	1.5km D/S of confluence	158.98	159.01	0.03	1.90	1.90	0.00
Mimico Creek	3	19741.48	2.0km D/S of confluence	157.95	157.97	0.02	2.00	2.00	0.00
Mimico Creek	3	19206.7	2.5km D/S of confluence	156.69	156.70	0.01	3.78	3.79	0.01
Mimico Creek	3	18704.8	3.0km D/S of confluence	155.65	155.67	0.02	2.63	2.63	0.00
Mimico Creek	3	18206.91	3.5km D/S of confluence	154.55	154.56	0.01	1.67	1.68	0.01

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DOWNSTREAM IMPACTS

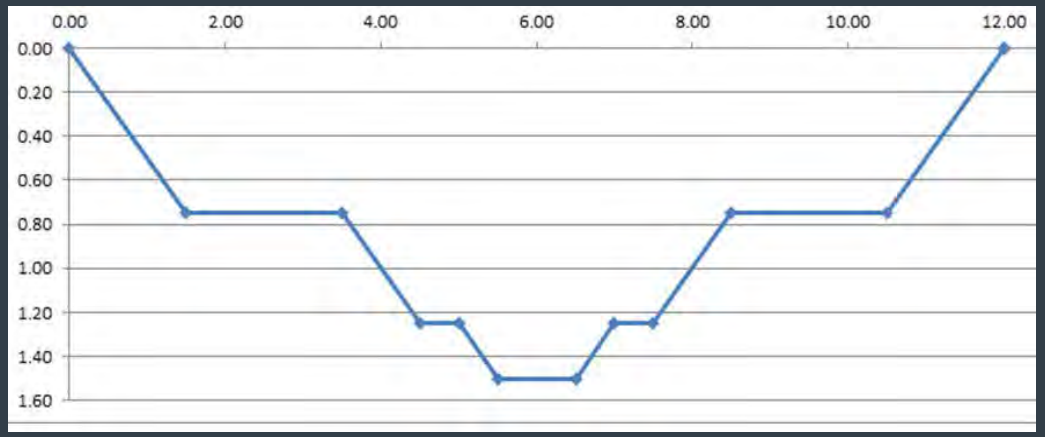
- The Regional event was to be analysed, however, the existing hydrology model shows a peak flow of 14.56 m^3/s for Catchment 134, which is already higher than the PCSWMM proposed flow of 13.50 m^3/s
- Since the PCSWMM model is more detailed and complex, and therefore more accurate than the VH model, it is assumed that the existing Regional VH model already accounts for the increase of flow at the outfall, and does not need to be updated for proposed conditions
- Derry Road is currently overtopped in a Regional event, as are all bridges along the East tributary
- For the 100-year event, the bridge does not quite meet clearance and freeboard criteria under existing conditions

DOWNSTREAM IMPACTS

- Flow Dissipation / reduction at the outfall has been reviewed at a high level to mitigate impacts at the outfall
- With the reconstruction of the outfall, in-channel strategies can be easily implemented
- The effects of flow reduction will be further studied at the detailed design phase
- Storage solutions at the outfall were found to be very costly and unfeasible due to the location being within the floodplain
- AECOM will keep up to date with the erosion mitigation and park master plan nearby

DOWNSTREAM IMPACTS

The cross-section of the existing outfall channel is quite confined, with steep gabion banks, as shown in the photo below. A new outfall structure may provide an opportunity for the downstream channel to be revitalised, to reduce flows and mitigate erosion. The cross-section below gives an example of a possible channel design. Lengthening the channel and decreasing slope would also help to dissipate flows.



Once the preferred cross-section is chosen, the specific dimensions and vegetated cover would be determined at the detailed design stage.

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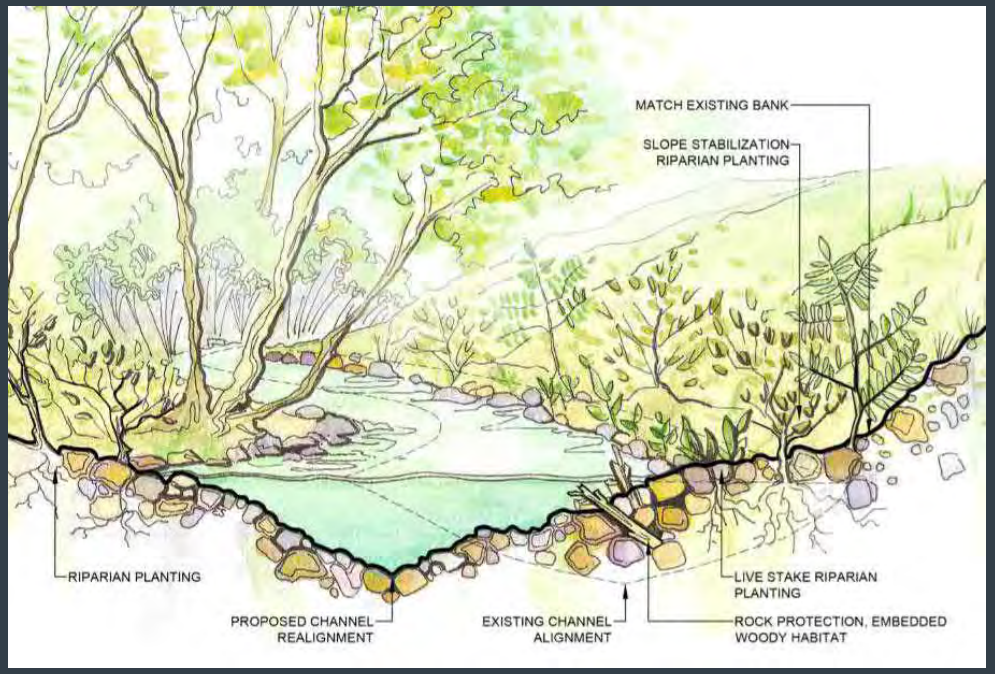
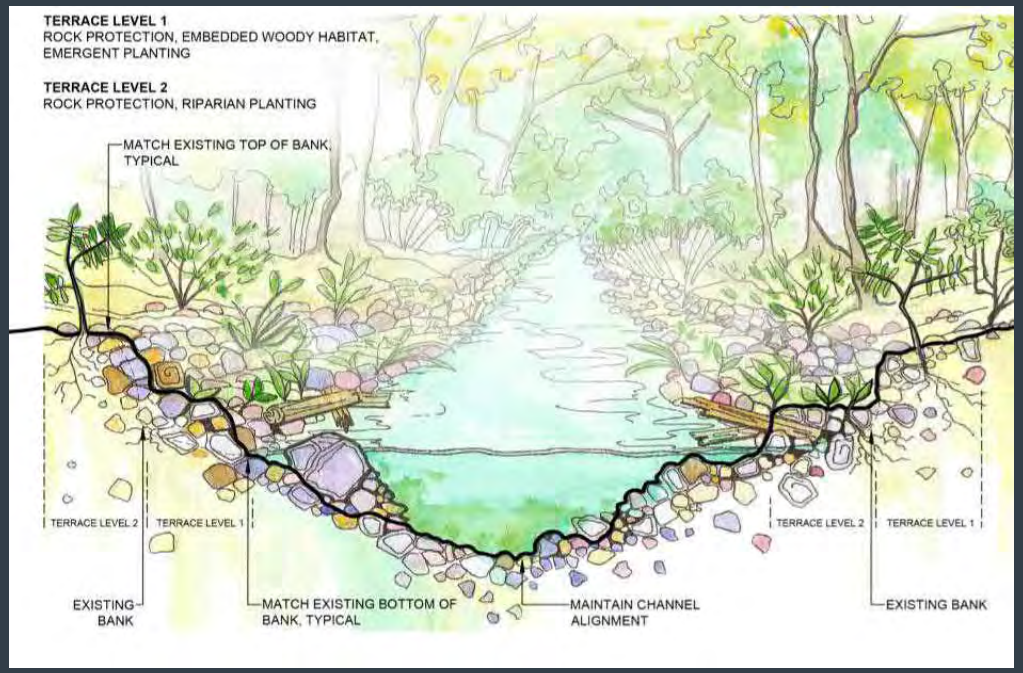
DOWNSTREAM IMPACTS

More examples of channel concepts…





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CONCLUSION

- The flooding risks within Flood Cluster 6 need to be addressed to ensure the safety of the public and protection of private property
- Several alternatives were investigated to determine which would be most effective, feasible and economical
- The preliminary preferred solution is to upsize the trunk storm sewer and add inlets to capture and convey the additional flow
- The proposed sewer will result in 33 fewer houses impacted during a 100-year storm, but will have a higher peak flow at the outfall
- The increase in flow at the outfall will cause slight increases to flows and water levels downstream, localised upstream of the confluence
- Flow dissipation / reduction at the outfall may help mitigate impacts downstream

NEXT STEPS

- All relative agencies to work towards preferred solution
  - Current planned studies;
    - natural environment
    - heritage assessment
    - archeology assessment
    - fluvial geomorphology
    - landscape architect
    - arborist
- Move forward with preliminary design to complete EA process, including PIC
- Detailed design of preferred solution

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Agency and Stakeholder Correspondence

Malton Flood Mitigation Study
Agency and Stakeholder Correspondence

Agency / Organization	Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
Hydro One	Hydro One Networks Inc SecondaryLandUse@HydroOne.com	Email	3/25/2020	Derek Gray	Following our preliminary assessment, we confirm there are no existing Hydro One Transmission assets in the subject area. Please be advised that this is only a preliminary assessment based on current information. However, if plans for the undertaking change or the study area expands beyond that shown, please contact Hydro One to assess impacts of existing or future planned electricity infrastructure. Any future communications are sent to Secondarylanduse@hydroone.com. Be advised that any changes to lot grading and/or drainage within or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.	Thank you for your response.	Email	3/25/2020
Hydro One	Hydro One Networks Inc SecondaryLandUse@HydroOne.com	Email	6/19/2023	Derek Gray	Thank you for sending us notification regarding (Malton Flood Mitigation Study Etude Drive to Justine Drive). In our assessment, we confirm there are no existing Hydro One Transmission assets in the subject area. If plans for the undertaking change or the study area expands beyond that shown, please contact Hydro One to assess impacts of existing or future planned electricity infrastructure. Any future communications are sent to Secondarylanduse@hydroone.com. Be advised that any changes to lot grading and/or drainage within proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.	Thank you for your response.	Email	6/20/2023
Ministry of Citizenship and Multiculturalism	Dan Minkin Heritage Planner	Email	4/6/2020	Anthony DiGiandomenico	Anthony DiGiandomenico, Please find attached, a letter acknowledging the receipt of your notice of commencement. Contact us with any further questions or concerns.	A Stage 1 archaeological assessment report and desktop cultural heritage memorandum have been completed. Ministry of Citizenship and Multiculturalism will be provided an opportunity to review the cultural heritage memorandum prior to issuance of the Notice of Completion	N/A	N/A
Ministry of Citizenship and Multiculturalism	Dan Minkin Heritage Planner				(Refer to outgoing correspondence)	Hi Dan, We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study. Download link - Draft Project File Please let our project team know if you have any questions or comments by November 24, 2023.	Email	10/25/2023
Ministry of Citizenship and Multiculturalism	Karla Baroboza	Email	11/28/2023	Samantha Zandvliet	Hi Samantha, Could you please resend the draft PFR? We need a couple of days to review it and finalize our comments. Thanks in advance, Karla	Hi Karla, Thank you for the confirmation. Here is the link to the Draft Project File documentation. Download link - Draft Project File Look forward to your comments. Thank you, Samantha Zandvliet	Email	11/28/2023
Ministry of Citizenship and Multiculturalism	Karla Baroboza	Email	23-12-01	Samantha Zandvliet	Hi Samantha, My apologies for the late response and thanks for the opportunity to review the draft PFR. Please find attached MCM's comments on this project. Let me know if you have any questions or concerns. Thanks again, Karla Karla Barboza, (She/Her) RPP, MCIP, CAHP Team Lead, Heritage | Heritage Planning Unit | Ministry of Citizenship and Multiculturalism | 416-660-1027 | karla.barboza@ontario.ca	Comments noted. PIF number has been clarified in the Report and Appendices.	N/A	N/A

Agency / Organization	Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
Ministry of the Environment, Conservation and Parks	Trevor Bell Environmental Planner/Environmental Assessment Coordinator	Email	5/5/2020	Anthony DiGiandomenico	Good afternoon, Please find attached a letter from the Ministry of the Environment, Conservation and Parks, Environmental Approvals Branch, regarding the above mentioned project. Feel free to contact me directly with any questions or concerns you may have. Sincerely, Trevor Bell | Environmental Planner/Environmental Assessment Coordinator Project Review Unit, Environmental Assessment and Permissions Branch Ministry of the Environment, Conservation and Parks 5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1 Phone: 416-326-3577 | trevor.bell@ontario.ca	Draft Project File will be circulated to the Ministry of the Environment, Conservation and Parks prior to issuance of the Notice of Completion	N/A	N/A
Ministry of the Environment, Conservation and Parks	Trevor Bell Environmental Planner/Environmental Assessment Coordinator				(Refer to outgoing correspondence)	Hi Trevor, We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study. Download link - Draft Project File Please let our project team know if you have any questions or comments by November 24, 2023.	Email	10/24/2023
Ministry of the Environment, Conservation and Parks	Chunmei Liu Environmental Planner/Environmental Assessment Coordinator				(Refer to outgoing correspondence)	Hello Ms. Chunmei Liu, Following up to confirm whether MECP staff will be providing comments on the draft Project File at this time or deferring comments until the 30-day review. Download link - Draft Project File Please note that you have been added to the contact list so will be receiving the future notice of completion. Thank you, Samantha Zandvliet	Email	11/28/2023
Ministry of the Environment, Conservation and Parks	Chunmei Liu Environmental Planner/Environmental Assessment Coordinator	Email	11/28/2023	Samantha Zandvliet	Thank you for following up with us for this project. We'll defer comments until the 30-day review period. Warm regards, Chunmei	Comments noted.	Email	11/28/2023
Toronto and Region Conservation Authority	Annette Lister, M.A.Sc. Planner	Email	4/1/2020	Anthony DiGiandomenico	Hello Anthony, TRCA staff received the Notice of Commencement for the above named Schedule B Municipal Class Environmental Assessment study on March 18, 2020. Please see the attached letter for staff response. Should you have any questions or concerns, please do not hesitate to contact me. Thank you, Annette	Hi Annette, Thanks for the provided response letter. Our project team will review and we'll reach out if there's any questions. We will follow-up with City staff who are leading the Master Plan for Paul Coffey Park to ensure our work is coordinated. I've also copied Nick and Robert to keep them in the loop as they were involved in the original Malton Flood Study work. They will be added to the study contact list going forward. We will keep your team informed as the study progresses. Thanks, Anthony	Email	4/2/2020

Agency / Organization	Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
Toronto and Region Conservation Authority	Nick Lorrain Senior Manager, Capital Projects Development & Engineering Services	Email	4/6/2020	Anthony DiGiandomenico	Anthony/Annette, Please note that as this project moves to permitting and implementation the technical input and review gets moved over to the Water Resources Engineering team within Engineering Services. Please ensure that Dilnesaw Chekol is identified as TRCA's engineering lead on the review of the EA and permitting process. As always, Rob and I will be available to help the City, AECOM, and Dilnesaw as required. Good luck and please let us know if you need anything! Regards, Nick Nick Lorrain Senior Manager, Capital Projects Development & Engineering Services	Comments noted.	N/A	N/A
Toronto and Region Conservation Authority	Sharon Lingertat	Email	2/3/2021	Emily Cameron	Good morning Emily, Thank you for the heads up on this information. Also please note that due to a shift in teams I am no longer taking care of Peel (lower Peel) files as I have moved over to the Scarborough/Durham area. As such, I've copied Suzanne Bevan, Senior Planner for Peel/York on this email. Thanks	Hello Suzanne and Dilnesaw, I'm sending the Existing and Proposed PCSWMM models via WeTransfer. They both reflect the 12-hour AES distribution for the 100-year event. The proposed model represents the conceptual design for the preferred alternative as discussed in our meeting last year. Please let me know if you have any questions. Take care, Emily Cameron, P.Eng	Email	2/25/2021
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Email	6/20/2023	Anthony DiGiandomenico	Hi Anthony, Please see the attached letter. Should you have any questions, please do not hesitate to contact me.	Shirin, thanks for your comments.	Email	6/20/2023
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Email	7/28/2023	Anthony DiGiandomenico	Hi Anthony, Please see the attached TRCA response to PIC. Please let me know if you have any questions regarding this project. Moving forward, please direct all future correspondence related to this project directly to me. Thank you and have a great day.	Good afternoon Shirin, Thank you for TRCA's comments in response to the online PIC for the Malton Flood Mitigation Study. Please find attached our response to your comments. I will forward you a copy of the draft Project File when it is ready for your review. Thank you, Samantha Zandvliet	Email	8/24/2023
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services				(Refer to outgoing correspondence)	Hi Shirin, We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study. Download link - Draft Project File Please let our project team know if you have any questions or comments by November 24, 2023. Thank you, Samantha Zandvliet Environmental Planner,	Email	10/25/2023

Agency / Organization	Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Email	10/26/2023	Samantha Zandvliet	Hi Samantha, This is to acknowledge that I have received and downloaded the files in your email below, I m going through these files currently and will circulate to our technical staff for review shortly. I will get back to you, if I had any questions. Thank you and regards, Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Hi Shirin, Can you please let me know whether TRCA staff had any comments on the draft EA Project File?	Email	11/28/2023
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Email	11/28/2023	Samantha Zandvliet	Hi Samantha, I am still awaiting comments from some of our technical staff – it is under review currently. Thanks, Shirin	Comment noted.	N/A	N/A
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Email	12/12/2023	Anthony DiGiandomenico	Hi Anthony, Please see the attached letter and Appendices. If you have any questions, please do not hesitate to contact me. Thank you and regards, Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services	Hi Shirin, Thank you for the comments from TRCA on the draft Project File Report. We will review them and provide responses. Please also find attached earlier responses to TRCA's comments of July 28, 2023, which we can include in the comment response table/matrix for ease of reference. The provided link on how to pay TRCA review fees doesn't seem to be working for me. Could you kindly send me a revised link? Could you or your accounts team please email me an invoice in the fee amount of $5,005 and include my email address, the project name, and purpose of fee request (i.e. EA Act review for Schedule B – Minor) on the invoice? Once we have that we should be able to process the payment. Thanks, Anthony	Email	12/13/2023
Toronto and Region Conservation Authority	Shirin Varzgani, MIP, MES (Pl.) (she, her, hers) Senior Planner Infrastructure Planning and Permits | Development and Engineering Services				(Refer to outgoing correspondence)	Good afternoon Shirin, Please find attached our responses to the TRCA comments dated December 12, 2023. The Project File will be posted for 30-day review at the end of February and you will receive the notice of completion when it is issued. If you have any questions, please do not hesitate to contact me.	Email	2/12/2024
Peel Region	Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works	Email	7/10/2023	Anthony DiGiandomenico	Hi Anthony, Thank you for the opportunity to review the PIC materials. Our Public Health team has the following comments: Public Health - Built Environment Team – Kayle McMillen Peel Public Health supports the preliminary preferred solution (Alternative 1), as this option will result in upgrades to the existing pedestrian walkway into a multi-use trail with streetscaping improvements. This pathway provides an alternative route option, which increases the connectivity within the subdivision for pedestrians and cyclists. The proposed streetscaping improvements will make the pathway more accessible, attractive, comfortable and safe, which can encourage more residents to use the path for both recreation and active transportation. Please see some additional considerations for the detailed design below: • There were some resident concerns related to loitering and litter along the path and a recommendation to not include benches. It is important to note that benches improve the accessibility of a pathway for people of all ages and abilities by providing rest stops, especially for seniors. During the detailed design phase, consider the risks and benefits of benches in this location as well as other streetscaping strategies to address this issue, such as increased lighting, improved sightlines, garbage/recycling receptacles and even the potential effect of increased traffic along the pathway. A well designed streetscape can promote community interaction, improve safety and reduce the incidence of crime. • Consider planting trees in areas where the path would get high sun exposure, in addition to the replacement trees. An expansive tree cover provides shade, enhances the pedestrian experience as well as mitigates the effects of climate change. I will be in touch again if our other teams have comments and in the meantime we look forward to receiving your response comments.	Hi Asha, Thank you for the provided comments. We will be reviewing all study comments received and providing formal responses. Thanks, Anthony	Email	7/10/2023

Agency / Organization	Contact	Correspondence: Method	Correspondence: Date	Received By	Summary of Comments Received	Outgoing Correspondence from Project Team	Response: Method	Response: Date
Peel Region	Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works	Email	7/26/2023	Anthony DiGiandomenico	Good morning Anthony, Our stormwater management team would like to confirm if there is a hydrology or stormwater management report for the EA. The team was unable to locate it in the PIC materials on the project website.	Good afternoon Asha/Kayle, Thank you for your comments from the PIC for the Malton Flood Mitigation Study. With respect to the Region's comments please see below: •AECOM's original concept included benches along the trail, but the residents in the area were very resistant to including them as the existing walkway is subject to unwelcome use. Based on these comments the benches were removed, however, other streetscaping strategies are being implemented to improve safety and promote a sense of community. •Replacement trees along the walkway will be finalized during detail design as it proceeds. Should you have any other questions please reach out to us. Stay well, Derek R. Gray, P.Eng., A.A.E., I.R.P. Climate Change Specialist derek.gray@aecom.com	Email	8/22/2023
Peel Region	Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works				(Refer to outgoing correspondence)	Hi Asha and Kayle, We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study. Download link - Draft Project File Please share this link with other Peel staff, as needed, and let our project team know if you have any questions or comments by November 24, 2023.	Email	10/25/2023
Peel Region	Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works	Email	10/26/2023	Anthony DiGiandomenico	Hi Anthony, Thank you for providing Peel stakeholders the opportunity to review the draft PFR. We will need time to review and get back with comments. Would November 16 work? Thanks, Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works 10 Peel Centre Drive, Suite B, 4th Floor Brampton, ON L6T 4B9 Tel: 905 791 7800 ext. 7794	Hi Asha, Thanks for the reply and just to clarify we're actually targeting to receive comments before Nov. 24th but it's always helpful if we receive them earlier, if that's possible. Looking forward to the Region's comments. Thanks, Anthony	Email	10/26/2023
Peel Region	Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works	Email	11/17/2023	Anthony DiGiandomenico	Hi Anthony, Our Public Health team has reviewed the draft report and would like the City to consider future opportunities to add rest stops near entries/exits of the MUP to support accessibility and design for all ages and abilities, given that benches were not included along this MUP in response to community feedback. Thanks, Asha Saddi, BA(Hons), PMP Technical Analyst, Transportation Development Transportation Division, Public Works 10 Peel Centre Drive, Suite B, 4th Floor Brampton, ON L6T 4B9 Tel: 905 791 7800 ext. 7794	Hi Asha, Thanks for the comment from Peel's Public Health team and we will take that comment into consideration. We appreciate the feedback. Thank you, Anthony	Email	11/20/2023

AECOM

Provincial Agencies

From: Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>
Sent: Monday, April 6, 2020 3:39 PM
To: anthony.digiandomenico@mississauga.ca
Cc: Minkin, Dan (MHSTCI); Barboza, Karla (MHSTCI); Zandvliet, Samantha; Gray, Derek
Subject: [EXTERNAL] Notice of Study Commencement - Malton Flood Mitigation Strategy
Attachments: 2020-04-06_MaltonFloodMitigationStgyMHSTCI-Ltr.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Anthony DiGiandomenico,

Please find attached, a letter acknowledging the receipt of your notice of commencement. Contact us with any further questions or concerns.

Joseph Harvey
On behalf of

Dan Minkin
Heritage Planner
Heritage Planning Unit
Dan.Minkin@ontario.ca

Ministry of Heritage, Sport, Tourism, and Culture Industries

Programs and Services Branch
401 Bay Street, Suite 1700
Toronto, ON M7A 0A7
Tel: 416.314.7147

Ministère des Industries du Patrimoine, du Sport, du Tourisme et de la Culture

Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto, ON M7A 0A7
Tél: 416.314.7147

Ontario

April 6, 2020 EMAIL ONLY

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
201 City Centre Dr, Suite 800
Mississauga, ON L5B 2T4
anthony.digiandomenico@mississauga.ca

MHSTCI File	**:**	**0012176**
Proponent	**:**	**The City of Mississauga**
Subject	**:**	**Notice of Study Commencement – Municipal Class EA**
Project	**:**	**Malton Flood Mitigation Strategy**
Location	**:**	**The City of Mississauga**

Dear Anthony DiGiandomenico:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Commencement for the above-referenced project. MHSTCI's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land and marine;
- Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources.

Project Summary
The City of Mississauga has initiated a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.

Identifying Cultural Heritage Resources
While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to these communities. Municipal Heritage Committees, historical societies and other local heritage organizations may also have knowledge that contributes to the identification of cultural heritage resources.

Archaeological Resources
This EA project may impact archaeological resources and should be screened using the MHSTCI *Criteria for Evaluating Archaeological Potential* and *Criteria for Evaluating Marine Archaeological Potential* to determine if an archaeological assessment is needed. MHSTCI archaeological sites

data are available at *archaeology@ontario.ca*. If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *OHA*, who is responsible for submitting the report directly to MHSTCI for review.

Built Heritage and Cultural Heritage Landscapes
The MHSTCI *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* should be completed to help determine whether this EA project may impact cultural heritage resources. If potential or known heritage resources exist, MHSTCI recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts. Our Ministry's *Info Sheet #5: Heritage Impact Assessments and Conservation Plans* outlines the scope of HIAs. Please send the HIA to MHSTCI for review, and make it available to local organizations or individuals who have expressed interest in review.

Environmental Assessment Reporting
All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MHSTCI whether any technical cultural heritage studies will be completed for this EA project, and provide them to MHSTCI before issuing a Notice of Completion or commencing any work on the site. If screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank you for consulting MHSTCI on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, do not hesitate to contact me.

Sincerely,

Joseph Harvey
On behalf of

Dan Minkin
Heritage Planner
Heritage Planning Unit
Dan.Minkin@ontario.ca

Copied to: Derek Gray, Project Manager, AECOM Canada Ltd.
Samantha Zandvliet, Environmental Planner, AECOM Canada Ltd.

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MHSTCI makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MHSTCI be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MHSTCI if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MHSTCI should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

From: Barboza, Karla (She/Her) (MCM) <Karla.Barboza@ontario.ca>
Sent: Friday, December 1, 2023 12:24 PM
To: Zandvliet, Samantha
Cc: Anthony DiGiandomenico; Gray, Derek; Grueneis, Karl
Subject: MCM Response: Malton Flood Mitigation Study MCEA - Draft Project File for MCM Review
Attachments: 2023-12-01 MaltonFloodMitigation_Draft PFR_MCM Comments FINAL.pdf

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Report Suspicious

Hi Samantha,

My apologies for the late response and thanks for the opportunity to review the draft PFR.

Please find attached MCM's comments on this project. Let me know if you have any questions or concerns.

Thanks again,
Karla

Karla Barboza, (She/Her) RPP, MCIP, CAHP
Team Lead, Heritage | Heritage Planning Unit | **Ministry of Citizenship and Multiculturalism** | 416-660-1027 | karla.barboza@ontario.ca

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From: Barboza, Karla (She/Her) (MCM)
Sent: November 28, 2023 3:05 PM
To: Samantha.Zandvliet@aecom.com
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>; Minkin, Dan (MCM) <Dan.Minkin@ontario.ca>
Subject: FW: Malton Flood Mitigation Study MCEA - Draft Project File for MCM Review

Hi Samantha,

Could you please resend the draft PFR? We need a couple of days to review it and finalize our comments.

Thanks in advance,
Karla

Karla Barboza, (She/Her) RPP, MCIP, CAHP
Team Lead, Heritage | Heritage Planning Unit | **Ministry of Citizenship and Multiculturalism** | 416-660-1027 | karla.barboza@ontario.ca

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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: November 28, 2023 2:52 PM
To: Barboza, Karla (She/Her) (MCM) <Karla.Barboza@ontario.ca>
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>;

Grueneis, Karl <Karl.Grueneis@aecom.com>; Minkin, Dan (MCM) <Dan.Minkin@ontario.ca>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for MCM Review

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Karla,

Can you please let me know whether Dan had a chance to review this draft EA Project File prior to his leave?

Please also advise whether there were any MCM staff updates for the notice of completion distribution list. At this time we have listed you and Dan at the MCM contacts.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
aecom.com

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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: Tuesday, November 28, 2023 1:56 PM
To: Dan.Minkin@ontario.ca
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for MCM Review

Good afternoon Dan,

Can you please advise whether MCM has any comments on the draft Project File?

Download link - Draft Project File

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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aecom.com

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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: Wednesday, October 25, 2023 4:19 PM
To: Dan.Minkin@ontario.ca
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: Malton Flood Mitigation Study MCEA - Draft Project File for MCM Review

Hi Dan,

We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study.

Download link - Draft Project File

Please let our project team know if you have any questions or comments by November 24, 2023.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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Ministry of Citizenship and Multiculturalism

Heritage Planning Unit
Heritage Branch
Citizenship, Inclusion and Heritage Division
5th Flr, 400 University Ave
Tel.: 416-660-1027

Ministère des Affaires civiques et du Multiculturalisme

Unité de la planification relative au patrimoine
Direction du patrimoine
Division des affaires civiques, de l'inclusion et du patrimoine
Tél.: 416-660-1027

Ontario

December 1, 2023 EMAIL ONLY

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
AECOM
45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8
samantha.zandvliet@aecom.com

MCM File	**:**	**0012176**
Proponent	**:**	**City of Mississauga**
Subject	**:**	**Municipal Class Environmental Assessment – Schedule B – Draft Project File**
Project	**:**	**Malton Flood Mitigation Strategy**
Location	**:**	**City of Mississauga**

Dear Samantha Zandvliet:

Thank you for sending the *Draft Project File Report for the Malton Flood Mitigation Study – Etude Drive to Justine Drive* (dated October 2023 and prepared by AECOM) to the Ministry of Citizenship and Multiculturalism (MCM) for review and comment.

MCM's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage.

Project Summary
The City of Mississauga, through its consultant AECOM Canada Ltd., has completed a Schedule B Municipal Class EA study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.

Comments
We have reviewed the Draft Project File Report referenced above and associated appendices and have the following comments and observations:

- Our records indicate that the Stage 1 archaeological assessment (under Project Information Form (PIF) number P123-0462-2020) has been submitted to MCM and is under review. Please clarify the PIF numbers in Section 3.9.1 and Appendix F.
- Please note that archaeological concerns have not been addressed until reports have been entered into the Ontario Public Register of Archaeological Reports where those reports recommend that:
    1. the archaeological assessment of the project area is complete and
    2. all archaeological sites identified by the assessment are either of no further cultural heritage value or interest (as per Section 48(3) of the Ontario Heritage Act) or that mitigation of impacts has been accomplished through excavation or an avoidance and protection strategy.

- Proponents should wait to receive the MCM's review letter indicating that the report(s) has been entered into the Register before issuing a decision or proceeding with any ground disturbing activities.
- Proponents should follow the recommendations of the archaeological assessment report(s). MCM recommends that further stages of archaeological assessment (if recommended) be undertaken as early as possible during detailed design and prior to any ground disturbing activities. We note that this is captured in Section 7.5 (Additional Studies and Commitments) and Table 8-1 (Potential Construction Related Effects and Mitigation Measures).
- A *Cultural Heritage Memorandum – Desktop Review* (dated December 14, 2020 and prepared by AECOM) was undertaken and concluded that there is no known or potential built heritage resources and cultural heritage landscapes within or adjacent the Study Area. Therefore, no further technical cultural heritage studies have been undertaken.
- The Memorandum also recommends that it be submitted to the City of Mississauga heritage staff.

We have no further comments on the draft PFR. Thank you for the opportunity to review it. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Karla Barboza
Team Lead, Heritage
Heritage Planning Unit
karla.barboza@ontario.ca

Copied to: Anthony DiGiandomenico, City of Mississauga
Derek Gray, AECOM
Karl Grueneis, AECOM

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. The Ministry of Citizenship and Multiculturalism (MCM) makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MCM be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

To: Gray, Derek
Subject: RE: Malton Flood Mitigation Study (Etude Drive to Justine Drive) - Schedule B Municipal Class EA

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: Monday, May 4, 2020 3:52 PM
To: anthony.digiandomenico@mississauga.ca
Cc: Dufresne, Tina (MECP) <Tina.Dufresne@ontario.ca>; Evers, Andrew (MECP) <Andrew.Evers@ontario.ca>; Gray, Derek <Derek.Gray@aecom.com>
Subject: [EXTERNAL] Malton Flood Mitigation Study (Etude Drive to Justine Drive) - Schedule B Municipal Class EA

Good afternoon,

Please find attached a letter from the Ministry of the Environment, Conservation and Parks, Environmental Approvals Branch, regarding the above mentioned project. Feel free to contact me directly with any questions or concerns you may have.

Sincerely,

Trevor Bell | Environmental Planner/Environmental Assessment Coordinator

Project Review Unit, Environmental Assessment and Permissions Branch

Ministry of the Environment, Conservation and Parks

5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1

Phone: 416-326-3577 | trevor.bell@ontario.ca

Ministry of the Environment, Conservation and Parks

Environmental Assessment Branch

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135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001 416 314-8001
Fax.: 416 314-8452

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des évaluations environnementales

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Téléc. : 416 314-8452

May 4, 2020

Anthony DiGiandomenico, P.Eng.
Project Manager
City of Mississauga
anthony.digiandomenico@mississauga.ca
BY EMAIL ONLY

Re: **Malton Flood Mitigation Study – Etude Drive to Justine Drive**
City of Mississauga
Schedule B Municipal Class Environmental Assessment
Notice of Study Commencement

Dear Mr. DiGiandomenico,

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the City of Mississauga has indicated that the study is following the approved environmental planning process for a Schedule B project under the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA).

The attached "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please identify the areas of interest which are applicable to the project and ensure they are addressed. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.

The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to the proposed project**, the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information provided to date and the Crown`s preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Mississaugas of the Credit First Nation;
- Six Nations of the Grand River;
- Haudenosaunee Confederacy Chiefs Council; and
- Huron-Wendat Nation, if there are potential archeological impacts

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "Code of Practice for Consultation in Ontario's Environmental Assessment Process".

Additional information related to Ontario's *Environmental Assessment Act* is available online at: www.ontario.ca/environmentalassessments

Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information.

The proponent must contact the Director of Environmental Assessment and Permissions Branch under any of the following circumstances subsequent to initial discussions with the communities identified by MECP:

- Aboriginal or treaty rights impacts are identified to the proponent by the communities;
- The proponent has reason to believe that the proposed project may adversely affect an Aboriginal or treaty right;
- Consultation has reached an impasse; or
- A Part II Order request or elevation request is expected

The Director of the Environmental Assessment and Permissions Branch can be notified either by email with the subject line "Potential Duty to Consult" to enviropermissions@ontario.ca or by mail or fax at the address provided below:

Email:	enviropermissions@ontario.ca Subject: Potential Duty to Consult
Fax:	416-314-8452
Address:	Environmental Assessment and Permissions Branch 135 St. Clair Avenue West, 1st Floor Toronto, ON, M4V 1P5

The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role the proponent will be asked to play in them.

A Part II Order Request Form must be used to request a Part II Order. The Part II Order Request Form is available online on the Forms Repository website (http://www.forms.ssb.gov.on.ca) by searching "Part II Order" or "012-2206E" (the form ID number). Please include reference to this in the Notice of Completion for this project.

A draft copy of the Project File Report (report) should be sent to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments. Please also forward the Notice of Completion and final report to me when completed.

Should you or your project team members have any questions regarding the material above, please contact me at trevor.bell@ontario.ca.

Sincerely,

Trevor Bell
Regional Environmental Assessment Coordinator

cc: Tina Dufresne, Manager, Halton Peel District Office, MECP
Andrew Evers, Supervisor (A), Project Review Unit, MECP
Derek Gray, Consultant Project Manager, AECOM Canada Ltd.

Attachments: Areas of Interest
A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities

AREAS OF INTEREST

It is suggested that you check off each applicable area after you have considered / addressed it.

☐ Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

☐ Planning and Policy

- Ontario has released "A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019)" which replaces the "Growth Plan for the Greater Golden Horseshoe (2017)". More information, including the Plan, is found here: https://www.placestogrow.ca.

- Parts of the study area may be subject to the A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019), Oak Ridges Moraine Conservation Plan (2017), Niagara Escarpment Plan (2017), Greenbelt Plan (2017) or Lake Simcoe Protection Plan (2014). Applicable policies should be referenced in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.

- The Provincial Policy Statement (2020) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.

☐ Source Water Protection (all projects)

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the

Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**

- The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.

- If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.

- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.

- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: http://www.applications.ene.gov.on.ca/swp/en/index.php.The mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.

- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. The contact for this project is Jennifer Stephens at (416) 661-6600 ext 5568 or jstephens@trca.on.ca. Please document the results of that consultation within the report and include all communication documents/correspondence.**

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to Conservation Ontario's website where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in section 1.1 of Ontario Regulation 287/07 made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

Climate Change

Ontario is leading the fight against climate change through the Climate Change Action Plan. Recently released, the plan lays out the specific actions Ontario will take in the next five years to meet its 2020 greenhouse gas reduction targets and establishes the framework necessary to meet its long-term

targets. As a commitment of the action plan, **the province has now finalized a guide, "Considering Climate Change in the Environmental Assessment Process" (Guide).**

The Guide is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. **Proponents should review this Guide in detail.**

- The MECP expects proponents to:

    1. Take into account during the assessment of alternative solutions and alternative designs, the following:
        a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
        b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
    2. Include a discrete section in the report detailing how climate change was considered in the EA.

    How climate change is considered can be qualitative or quantitative in nature, and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "Community Emissions Reduction Planning: A Guide for Municipalities" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

Air Quality, Dust and Noise

- If there are sensitive receptors in the surrounding area of this project, an air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**

- **If a full Air Quality Impact Assessment is not required for the project, the report should still contain:**

    - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
    - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
    - A discussion of local air quality impacts that could arise from this project during both construction and operation; and

- A discussion of potential mitigation measures.

- As a common practice, “air quality” should be used an evaluation criterion for all road projects.

- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.

- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to *Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities*. report prepared for Environment Canada. March 2005.

- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.

- All natural heritage features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:

  - Areas of Natural and Scientific Interest (ANSIs)
  - Rare Species of flora or fauna
  - Watercourses
  - Wetlands
  - Woodlots

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

Surface Water

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.

- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry’s Stormwater Management Planning and Design Manual (2003) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** that includes:

  - Strategies to address potential water quantity and erosion impacts related to stormwater

draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
    - Watershed information, drainage conditions, and other relevant background information
    - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
    - Information on maintenance and monitoring commitments.

- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.

- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information. Additionally, an Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

Groundwater

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.

- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.

- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.

- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information.

Contaminated Soils

- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with

Part XV.1 of the Environmental Protection Act (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites.

- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.

- The report should identify any underground transmission lines in the study area. The owners should be consulted to avoid impacts to this infrastructure, including potential spills.

Excess Materials Management

- Activities involving the management of excess soil should be completed in accordance with the MECP's current guidance document titled "Management of Excess Soil – A Guide for Best Management Practices" (2014).

- All waste generated during construction must be disposed of in accordance with ministry requirements

Servicing and Facilities

- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with the Environmental Approvals Access and Service Integration Branch (EAASIB) to determine whether a new or amended ECA will be required for any proposed infrastructure.

- We recommend referring to the ministry's environmental land use planning guides to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

Mitigation and Monitoring

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.

- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.

- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

Consultation

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the SR that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.

Class EA Process

- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. The Master Plan should clearly indicate the selected approach for conducting the plan, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the *Environmental Assessment Act*, although the plan itself would not be.

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.

- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment. The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.

- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, and approvals under the *Impact Assessment Act*, 2019.

- Ministry guidelines and other information related to the issues above are available at http://www.ontario.ca/environment-and-energy/environment-and-energy. We encourage you to review all the available guides and to reference any relevant information in the report.

Definitions

The following definitions are specific to this document and may not apply in other contexts:

Aboriginal communities – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

Consultation – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982*. Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

Crown – the Ontario Crown, acting through a particular ministry or ministries.

Procedural aspects of consultation – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

Proponent – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

I. Purpose

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

II. Why is it Necessary to Consult with Aboriginal Communities?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

III. The Crown's Role and Responsibilities in the Delegated Consultation Process

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;
- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

IV. The Proponent's Role and Responsibilities in the Delegated Consultation Process

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project.

A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

a) What might a proponent be required to do in carrying out the procedural aspects of consultation?

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;
- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;
- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

b) What documentation and reporting does the Crown need from the proponent?

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;
- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;
- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;
- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

V. What are the Roles and Responsibilities of Aboriginal Communities' in the Consultation Process?

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant documentation;
- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigates any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

VI. What if More Than One Provincial Crown Ministry is Involved in Approving a Proponent's Project?

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.

From: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>
Sent: Tuesday, November 28, 2023 3:09 PM
To: Zandvliet, Samantha
Cc: Anthony DiGiandomenico; Gray, Derek; Grueneis, Karl
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for MECP Review

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Report Suspicious

Thank you for following up with us for this project. We'll defer comments until the 30-day review period.

Warm regards,
Chunmei

From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: Tuesday, November 28, 2023 2:57 PM
To: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for MECP Review

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hello Ms. Chunmei Liu,

Following up to confirm whether MECP staff will be providing comments on the draft Project File at this time or deferring comments until the 30-day review.

Download link - Draft Project File

Please note that you have been added to the contact list so will be receiving the future notice of completion.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
aecom.com

Delivering a better world

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From: Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>
Sent: Wednesday, October 25, 2023 4:48 PM
To: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Cc: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for MECP Review

Samantha,

Please be advised. That in Trevor's absence, Ms. Chunmei Liu will be the MECP's contact for this project.

Thank you,

Gavin Battarino | A/Supervisor, Project Review Unit
Environmental Assessment Services Section
Environmental Assessment Branch
Ontario Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto ON M4V 1P5

If you have any accommodation needs or require communication supports or alternate formats, please let me know.
Si vous avez des besoins en matière d'adaptation, ou si vous nécessitez des aides à la communication ou des médias substituts, veuillez me le faire savoir.

From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: October-25-23 4:44 PM
To: EA Notices to CRegion (MECP) <eanotification.cregion@ontario.ca>
Cc: Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: FW: Malton Flood Mitigation Study MCEA - Draft Project File for MECP Review

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hello,

I am forwarding the below email request, as directed per Trevor's automatic reply.

Please advise who will be the MECP contact for this project moving forward.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519

samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: Wednesday, October 25, 2023 4:17 PM
To: trevor.bell@ontario.ca
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>; Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: Malton Flood Mitigation Study MCEA - Draft Project File for MECP Review

Hi Trevor,

We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study.

Download link - Draft Project File

Please let our project team know if you have any questions or comments by November 24, 2023.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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AECOM

Toronto and Region Conservation Authority

Subject: RE: CFN 62948 Malton Flood Mitigation EA - TRCA Response to Notice of Commencement

From: Nick Lorrain <Nick.Lorrain@trca.ca>
Sent: Monday, April 6, 2020 10:27 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Annette Lister <Annette.Lister@trca.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Robert Chan <Robert.Chan@trca.ca>; Dilnesaw Chekol <Dilnesaw.Chekol@trca.ca>
Subject: [EXTERNAL] RE: CFN 62948 Malton Flood Mitigation EA - TRCA Response to Notice of Commencement

Anthony/Annette,

Please note that as this project moves to permitting and implementation the technical input and review gets moved over to the Water Resources Engineering team within Engineering Services. Please ensure that Dilnesaw Chekol is identified as TRCA's engineering lead on the review of the EA and permitting process.

As always, Rob and I will be available to help the City, AECOM, and Dilnesaw as required.

Good luck and please let us know if you need anything!

Regards,

Nick

Nick Lorrain
Senior Manager, Capital Projects
Development & Engineering Services

T: (416) 661-6600 ext. 5278
C: (416) 991-3702
E: nick.lorrain@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: April 2, 2020 3:31 PM
To: Annette Lister <Annette.Lister@trca.ca>
Cc: derek.gray@aecom.com; Brandon Hester <Brandon.Hester@trca.ca>; Andrew Ramesbottom <Andrew.Ramesbottom@trca.ca>; Rudra Bissoon <Rudra.Bissoon@trca.ca>; Sonya Meek <Sonya.Meek@trca.ca>; Nick Lorrain <Nick.Lorrain@trca.ca>; Robert Chan <Robert.Chan@trca.ca>
Subject: RE: CFN 62948 Malton Flood Mitigation EA - TRCA Response to Notice of Commencement

Hi Annette,

Thanks for the provided response letter. Our project team will review and we'll reach out if there's any questions.

We will follow-up with City staff who are leading the Master Plan for Paul Coffey Park to ensure our work is coordinated.

I've also copied Nick and Robert to keep them in the loop as they were involved in the original Malton Flood Study work. They will be added to the study contact list going forward.

We will keep your team informed as the study progresses.

Thanks,
Anthony

MISSISSAUGA

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: Annette Lister [mailto:Annette.Lister@trca.ca]
Sent: 2020/04/01 8:40 AM
To: Anthony DiGiandomenico
Cc: derek.gray@aecom.com; Brandon Hester; Andrew Ramesbottom; Rudra Bissoon; Sonya Meek
Subject: CFN 62948 Malton Flood Mitigation EA - TRCA Response to Notice of Commencement

Hello Anthony,

TRCA staff received the Notice of Commencement for the above named Schedule B Municipal Class Environmental Assessment study on March 18, 2020. Please see the attached letter for staff response.

Should you have any questions or concerns, please do not hesitate to contact me.

Thank you,
Annette

Annette Lister, M.A.Sc.
Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (416) 661-6600 ext. 6443
E: annette.lister@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

CFN 62948
XREF 54922, 57573, 62452

April 1, 2020

BY E-MAIL ONLY (anthony.digiandomenico@mississauga.ca)

Anthony DiGiandomenico
Project Manager
City of Mississauga
201 City Centre Drive, Suite 800
Mississauga, ON L5B 2T4

Dear Mr. DiGiandomenico,

Re: Notice of Commencement
Malton Flood Mitigation Study, Etude Drive to Justine Drive
Municipal Class Environmental Assessment – Schedule B
Mimico Creek Watershed; City of Mississauga; Regional Municipality of Peel

Toronto and Region Conservation Authority (TRCA) staff received the Notice of Commencement for the above noted Environmental Assessment (EA) on March 18, 2020. As a recognized commenting agency under the Ontario Environmental Assessment Act, TRCA has interests in this project.

PROJECT OVERVIEW

It is our understanding that this undertaking will identify and evaluate alternative solutions to mitigate urban flooding risks to people, property and infrastructure for the area between Etude Drive and Justine Drive, in the City of Mississauga. It is further understood that the EA study will characterize and model existing conditions within the area in order to propose mitigation measures and to identify potential impacts. The EA study area is bound approximately by Etude Drive to the north, in between Derry Road East and the rail line to the south, Codlin Avenue to the west and east of Goreway Drive to the east.

Paul Coffey Park is also located within the EA study area boundaries. Please note that a Master Plan has been completed to direct the redevelopment of Paul Coffey Park, and TRCA staff has also permitted a number of sports and park amenities within the park (TRCA Permit No. C-200227 and CFN 57573). TRCA Restoration Services staff have also be partnering with City of Mississauga on restoration opportunities within the park. Please ensure that the alternative solutions and work proposed within this EA study is coordinated with the appropriate City of Mississauga contacts.

Furthermore, please note that TRCA initiatives are underway or have been completed within the EA study area, including:

- Completed Malton Flood Characterization Study
- Bank stabilization works to protect sanitary infrastructure in Derry Greenway Park (tentatively scheduled for 2020) and Malton Greenway Park (completed)
- Restoration opportunities assessment by TRCA Restoration Services staff

There may be opportunities to coordinate solutions proposed within the EA study with TRCA Restoration Services staff. There may also be opportunities to partner with TRCA's Sustainable Neighbourhood Action Program (SNAP) to identify and implement solutions. Please continue to work closely with TRCA staff throughout the EA process to ensure that the proposed work is coordinated.

TRCA COMMENTING ROLES

As detailed in TRCA's 2014 **The Living City Policies** (LCP), TRCA has a number of commenting roles relative to its review of this environmental assessment, including:

1. Regulatory Authority
2. Delegated Provincial Interests
3. Public Commenting Body
4. Resources Management Agency
5. Service Provider
6. Land Owner

These are further detailed in **Appendix A: TRCA Commenting Roles**.

TRCA AREAS OF INTEREST

In relation to this application, TRCA staff has identified a number of areas of interest within the study area related to these various commenting roles, including:

1. TRCA Program and Policy Areas
    a. Natural System Programs and Policies
    b. Sustainability Programs and Policies
2. Provincial Program Areas
3. Federal Program Areas

Further details are provided in **Appendix B: TRCA Areas of Interest**.

In relation to these areas of interest, please be advised that TRCA has select digital data available through an open data platform on the TRCA website that should be used to supplement the existing conditions analysis in the development of the environmental assessment. Upon request, TRCA can provide additional data for areas of interest not available on the web. Please contact the undersigned as needed.

ASSESSMENT OF ALTERNATIVES

In developing, evaluating and selecting alternatives, staff require the LCP policies be considered. TRCA staff recommends the preferred alternative meets the policies of Section 7. In particular, impacts to and opportunities for the following should be addressed:

1. Flooding, erosion or slope instability
2. Existing landforms, features and functions
3. Aquatic and terrestrial habitat and functions, including connectivity
4. TRCA property and heritage resources
5. Environmental best management practices that support climate change mitigation and adaptation
6. Community and public realm benefits

TRCA requires that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to the ecosystem, and avoid, mitigate or remediate hazards, in that order. In order to fulfil requirements of Ontario Regulation 166/06 at the detailed design stage, staff also requires that the preferred alternative meets LCP policies in Section 8.

In order to ensure TRCA concerns are addressed early in the review process, it is recommended that the TRCA planner be contacted when key project milestones are reached, as detailed in **Appendix C: Recommended Contact Points.** Please contact the planner to discuss the appropriate time for a site visit, and ensure the TRCA planner is included in the technical advisory committee.

SUBMISSION REQUIREMENTS

As this project proceeds through the various stages of the environmental assessment process, please ensure the following is provided to TRCA for review and comment as the appropriate time:

Digital Submissions

1. All technical advisory committee meeting agendas, as well as draft and final meeting minutes
2. All TRCA technical meeting agendas, as well as draft and final meeting minutes
3. Draft public information boards, prior to public review
4. Notices of public meetings, including final display material and handouts
5. Draft technical reports and associated materials, including a covering letter that outlines the project purpose and lists the reports enclosed for review
6. Draft evaluation criteria and matrices, including a summary that details how the criteria and weighting (if applicable) were established
7. Draft EA document, including a covering letter that outlines how previous TRCA comments have been addressed
8. Final EA document, including a covering letter that outlines how previous TRCA comments have been addressed

Please ensure all materials are submitted in PDF format, with drawings pre-scaled to print on 11”x17” pages. Materials submitted through e-mail must be less than 25 MB. Materials submitted through a file transfer protocol (FTP) site must be posted a minimum of two weeks.

Please note, prior to submitting the technical reports and materials, as well as appendices related to the draft and final EA documents, it is recommended that the project manager be contacted so that review requirements can be scoped to the TRCA areas of interest.

REVIEW FEES

Please be advised that this application is subject to a **$10,300** Schedule B EA Standard application review fee as per our 2018 Fee Schedule. Please note:

1. **To ensure accurate processing of your fee, please ensure your accounting department references CFN 62948 when making any payments.**
2. Payment method and timing must be noted in your covering letter response.
3. Additional fees are applied as per the fee schedule for reviews beyond three (3) submissions, including the final.
4. Payments can be made by:
   a. Cheque: please attach the cheque to your resubmission. Alternatively, if sending separately through your accounting department, please request your accounting department submit the cheque to the attention of Oxana Stanisklavskaya, Accounting Clerk, Finance Corporate Services, TRCA.
   b. Credit Card: please contact Rina Bhagat, at extension 5681 for payments made over the phone.
   c. Electronic Fund Transfer: this option may be available through your accounting department.

Should you have any questions, please contact me at extension 6443 or at annette.lister@trca.ca.

Regards,

Annette Lister
Planner, Infrastructure Planning and Permits
Development and Engineering Services

Attached: Appendix A: TRCA Commenting Roles
Appendix B: TRCA Areas of Interest
Appendix C: Recommended TRCA Contact Points

BY E-MAIL

cc:

Consultant: Derek Gray, Project Manager, AECOM Canada Ltd. (derek.gray@aecom.com)

TRCA: Brandon Hester, Senior Property Agent
Andrew Ramesbottom, Senior Project Manager, Restoration and Resource Management
Rudra Bisson, Project Manager, Engineering Projects
Sonya Meek, Senior Manager, Sustainable Neighbourhoods

APPENDIX A: TRCA COMMENTING ROLES

TRCA COMMENTING ROLES	
Public Commenting Body	
Environmental Assessment Act	Pursuant to the federal and provincial **Environmental Assessment** (EA) **Acts**, conservation authorities are a commenting body. Conservation authorities are also responsible for comments made under environmental assessment (EA) exemption regulations, and the Ontario and National Energy boards. TRCA reviews and comments on environmental assessment that occur within TRCA's jurisdiction under these various forms of legislation.
Delegated Provincial Interests	
Hazard Lands	As outlined in the Conservation Ontario/ Ministry of Natural Resources and Forestry/ Ministry of Municipal Affairs and Housing Memorandum of Understanding on CA Delegated Responsibilities, CAs have been delegated the responsibility of representing the provincial interest on natural hazards encompassed by Section 3.1 of the PPS 2014.
Conservation Authorities Act	
Regulatory Authority	
Ontario Regulation 166/06, Development, Interference with Wetlands and Alterations to Shorelines and Watercourses	In accordance with Ontario Regulation 166/06 (Development, Interference with Wetlands and Alterations to Shorelines and Watercourses), a permit is required from the TRCA prior to any development (e.g. construction) if, in the opinion of TRCA, the control of flooding, erosion, dynamic beaches or pollution or the conservation of land may be affected. The Regulation Limit defines the greater of the natural hazards associated with Ontario Regulation 166/06 (listed below). NOTE: The Regulation Limit provides a geographical screening tool for determining if Ontario Regulation 166/06 will apply to a given proposal. Through site assessment or other investigation, it may be determined that areas outside of the defined Regulation Limit require permits under Ontario Regulation 166/06. In these instances, it is the text of the regulation that will prevail; modifications to the regulation line may be required. Any development within the Regulation Limit must comply with the applicable sections of The Living City Policies (2014).
Resources Management Agency	
TRCA Programs	In accordance with Section 20 and 21 of the **Conservation Authorities Act**, CAs are local watershed-based natural resource management agencies that develop programs that reflect local resource management needs within their jurisdiction. TRCA has developed programs and policies related to our role as a resource management agency that include, but are not limited to, watershed plans, fisheries management plans, land management plans, ecosystem restoration programs, and **The Living City Policy** (2014), which are approved by the TRCA Board. Please confirm that the preferred alternative design for this project addresses TRCA concerns related to its program areas. These will be further defined through the EA review process.

Land Owner	
TRCA Property	TRCA is a major landowner in the GTA, owning close to 18,000 hectares of land. TRCA comments provided as a landowner are separate from comments provided under a technical, advisory or regulatory role.
Acquisition and Easement	If TRCA property land transfer or easement is required for the implementation of the preferred alternative, permission and approval from TRCA and the Minister of Natural Resources and Forestry are required. The design must demonstrate that TRCA program and policy objectives are met. Formal approval typically takes 12 to 18 months from the completion of the EA document. Please contact Brandon Hester, Senior Property Agent at brandon.hester@trca.ca for additional information.
Permission to Enter	If TRCA property access is required for the purpose of completing technical studies associated with this project, a Permission To Enter (PTE) must be obtained from TRCA Property staff prior to entry. Please contact Brandon Hester, Senior Property Agent at brandon.hester@trca.ca for additional information.
Archaeological Resources	An archaeological review by TRCA's archaeological staff must precede any disturbance to TRCA property. If an archaeological assessment is required, scheduling will be subject to weather, seasonal programs and other field work and are at additional cost to the proponent. Please contact Alistair Jolly, Archaeologist at ajolly@trca.ca for additional information.
Service Provider	
Memorandum of Understandings	**Memorandum of Understandings:** The provision of planning advisory services to municipalities is implemented through a Memorandum of Understandings (MOU) with participating municipalities or as part of a CA's approved program activity. In this respect, the CA is essentially acting as a technical advisor to municipalities. The agreements cover the CA's areas of technical expertise such as water management, natural hazards, and natural heritage.
Restoration Opportunities	TRCA requires that the preferred alternative considers avoiding, minimizing, mitigating, and compensating impacts to ecosystems in that order. In areas where impacts are unavoidable, mitigation or compensation will be required. It is recommended that the costs associated with these impacts be factored into decisions made during the EA. TRCA has identified opportunities for habitat restoration and enhancement on TRCA property and some privately owned lands, targeted to improve natural form and function based on goals in the watershed strategies. Should ecosystem restoration or compensation be required for this project, TRCA may be able to provide both restoration opportunities and restoration field services on a project specific basis. This will be further discussed through the EA review process.

Community and Public Realm Benefits	TRCA understands that the purpose of providing project-based community benefits is to provide measurable economic benefits to the local community, and that the purpose of providing public realm benefits is to support local opportunities for social and environmental improvements. As part of the 2013-2022 TRCA Strategic Plan (updated), TRCA has identified the need to achieve measurable positive impacts on the health of our watersheds and has developed a number of programs that actively engage with local communities to support a green, local economy. These programs include but are not limited to, Sustainable Neighbourhood Retrofit Action Plans, TRCA Conservation Land Care Program, TRCA Trails Program, TRCA Community Transformation Program and Partners in Project Green. It is recommended that commitment be made to work with TRCA and other partners to develop a Community and Public Realm Benefits Strategy for this project. This will be further discussed through the EA review process.

APPENDIX B: TRCA AREAS OF INTEREST

TRCA PROGRAM AND POLICY AREAS *Note: Additional program and policy information may be available at www.trca.ca, or by request.*	
Natural System Programs and Policies	
Systems Approach	TRCA follows a systems approach in which the natural features and water resources are considered in relation to each other and the broader landscape in which they occur. The systems approach recognizes the role that linkages and connectivity within the natural system has in supporting ecological and hydrologic processes and functions that are vital to maintaining a healthy and robust natural system that is resilient against the impacts of urbanization and climate change. TRCA may require an assessment of the existing systems, together with an evaluation as to how the proposal may impact the systems.
Aquatic Systems, Species and Habitat	The aquatic system includes watercourses, wetlands, and flora and fauna species. Aquatic species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity. TRCA has prepared watershed plans or strategies, as well as fisheries management plans for some watersheds. The proposal must prevent negative impacts to the aquatic system, and as such, TRCA may require an assessment of the existing aquatic system, an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or strategy, and/or an evaluation as to how the proposal will meet the objectives of the fisheries management plan.
Terrestrial System, Species and Habitat	The terrestrial system includes landscape features, vegetation communities, and flora and fauna species. Terrestrial species and habitat should be assessed based on their conservation status according to sensitivity to disturbance and specialized ecological needs, as well as rarity. TRCA has identified the need to improve both the quality and quantity of terrestrial habitat. TRCA's **Terrestrial Natural Heritage System Strategy** sets measurable targets for attaining a healthier natural system by creating an expanded and targeted land base. It includes strategic directions for stewardship and securement of the land base, a land use policy framework to help achieve the target system, and other implementation mechanisms. TRCA may require an assessment of the existing terrestrial species and habitat, together with an evaluation as to how the proposal will meet the objectives articulated in the watershed plan or terrestrial natural heritage strategy, as well as prevent negative impacts to the terrestrial system.
Groundwater Systems	
Aquifers and Hydrogeological Features and Functions	Groundwater systems include aquifers and their functional connections to surface water. The extraction and discharge of groundwater has the potential to negatively impact surrounding natural features and their functions. Even small amounts of groundwater extraction may reduce contributions to groundwater dependent features such as wetlands, springs, or fish spawning habitat. In addition, the discharge of groundwater must be controlled to avoid impacts to watercourses and fish habitat from temperature, erosion and sedimentation, as well other water quantity and quality issues. TRCA may require geotechnical or hydrogeological investigations to confirm dewatering and discharge requirements, and to identify appropriate mitigation

	measures with respect to potential impacts to natural features and functions.
Surface Water Systems	
Watercourses	Typically, watercourses are associated with aquatic species, and direct or indirect habitat. Any alteration or interference to a watercourse (e.g., straightening, diverting, realigning, altering baseflow) has the potential to impact fish communities, but may also affect the Regulatory Flood Plain, erosion or other natural channel processes. TRCA may require an environmental study or site confirmation of watercourse locations.
Meander Belt	Channel migration has a significant impact on infrastructure, structures and property located near river systems. Determining channel stability is important to ensure that damage from erosion, down-cutting or other natural channel processes is avoided. TRCA may require a meander belt delineation study or fluvial geomorphology analysis to confirm that any development does not conflict with natural channel processes.
Regulatory Flood Plain	The Regulatory Flood Plain is the approved standard used in a particular watershed to define the limit of the flood plain for regulatory purposes. Within TRCA's jurisdiction, the Regulatory Flood Plain is based on the greater of the regional storm, Hurricane Hazel, and the 100-year flood. TRCA's framework for Flood Plain Management is the LCP. TRCA may require a flood study or hydraulic update to confirm that there will be no impacts to the storage or conveyance of flood waters.
Wetlands	Wetlands are sensitive natural habitats that play an important role in numerous physical, chemical and biological processes, including storm water control, natural habitat and water quality improvement. Most wetlands are designated by the Ministry of Natural Resources and Forestry as Provincially Significant or Locally Significant. Other wetlands have also been identified on a site specific basis by TRCA. All wetlands are regulated under Ontario Regulation 166/06. TRCA may require an environmental study or site confirmation of wetland locations.
Storm Water Management, including Green Infrastructure	Stormwater management is integral to the health of streams, rivers, lakes, fisheries and terrestrial habitats, and source water protection is integral for managing the quality and quantity of drinking water at its source. TRCA requires all development, infrastructure and site alteration meet the criteria in the TRCA 2012 Stormwater Management Criteria document for water quantity, water quality, erosion control, discharge water temperature, and water balance for groundwater recharge and natural features. Green Infrastructure techniques, including Low Impact Development (LID) measures should be used to address issues related to stormwater management, as well as maximize ecosystem services and mitigate the impacts of urbanization and climate change. For further information, please refer to the TRCA Introduction to Green Infrastructure, the Sustainable Technologies Evaluation Program (STEP) Urban Runoff Green Infrastructure and the STEP 2010 Low Impact Development Stormwater Management Planning and Design Guide.

Flood or Erosion Control Structures	There is an existing flood or erosion control structure (e.g., dam, weir, berm, channel) located in the project vicinity that must be considered as the project proceeds. A meeting with TRCA should be arranged as early as possible.
Valley Slopes	
Crest of Slope	Valley and stream corridors are dynamic systems that provide important natural functions and linkages for the physical, chemical and biological processes of wildlife, watercourses, and other natural features. The crest of slope identifies the physical limit of these corridors; however, due to ecological sensitivities, development restrictions typically extend beyond the actual crest of slope. TRCA may require the determination of the long term stable crest of slope (or toe of slope) through a staking with TRCA staff, as well as a geotechnical assessment.
Sustainability Programs and Policies	
Climate Change	In October 2017, MECP released a guideline under the Ontario environmental assessment legislation directing that all projects going through the EA process, including IEAs, Class EAs, and those governed by EA regulations, must consider impacts to and opportunities for climate change mitigation and adaptation, and consider the vulnerability of projects to climate change. It was further recommended that applicable policies in the 2014 **Provincial Policy Statement** be addressed, including but not limited to encouraging green infrastructure and strengthening stormwater management requirements; requiring consideration of energy conservation and efficiency, reduced greenhouse gas emissions and climate change adaptation (e.g. tree cover); and consideration of the potential impacts of climate change that may increase the risk associated with natural hazards (e.g. flooding due to severe weather). The climate change section of the EA should include recommendations for Green Infrastructure and Sustainable Construction Practices, as further described below. It is recommended that a completed Sustainable Technologies for Green Building, Green Infrastructure, and Sustainable Energy Design in Evaluation Matrix be included in the EA document.

PROVINCIAL PROGRAM AREAS

Please contact the Ministry of Natural Resources and Forestry (MNRF) to confirm if there are program interests related to this project for:

- **Areas of Natural and Scientific Interest** (ANSI)
- **Provincially Significant Wetlands** (PSW)

Please contact the Ministry of Environment, Conservation and Parks (MECP)

- **Provincially Endangered Species under the Endangered Species Act**

Please be advised that this list is not inclusive and the onus is on the proponent and it consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.

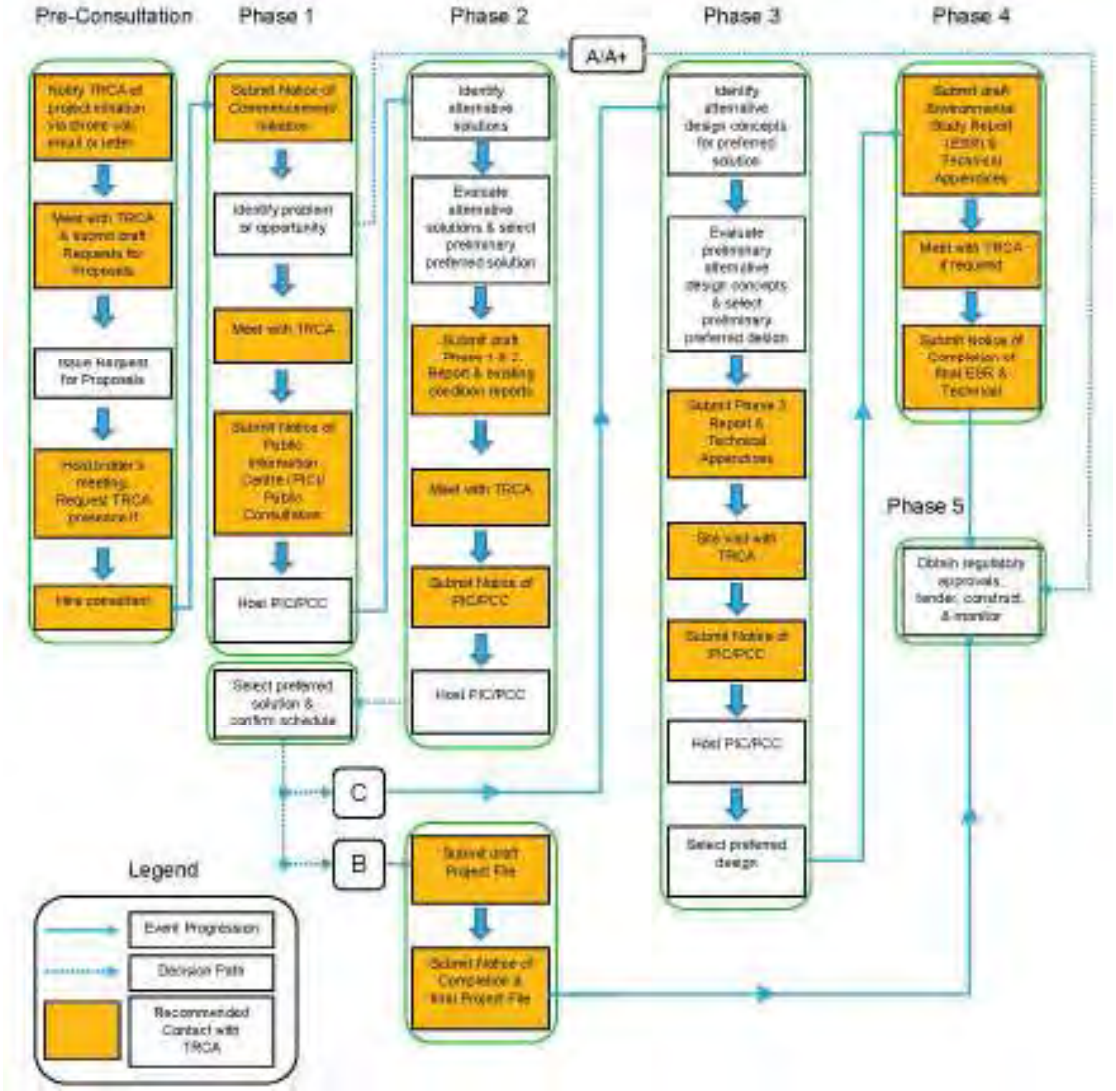
FEDERAL PROGRAM AREAS

Please contact the relevant federal agency to confirm if there are issues related to:

- Asian Long-horned Beetle Regulated Area
- Federally Endangered Species under the **Species at Risk Act**
- The **Fisheries Act**

Please be advised that this list is not inclusive and the onus is on the proponent and it consultants to consult with other provincial agencies, as required, to ensure that requirements of their respective legislation is met.

Appendix C: Recommended TRCA Contact Points in the Municipal Class EA Process



From: Cameron, Emily
Sent: Thursday, February 25, 2021 2:53 PM
To: Dilnesaw Chekol; Suzanne Bevan
Cc: Gray, Derek; Pun, Ken; Zandvliet, Samantha
Subject: RE: CFN 62948 - RE: Flood Cluster 6

Hello Suzanne and Dilnesaw,

I'm sending the Existing and Proposed PCSWMM models via WeTransfer. They both reflect the 12-hour AES distribution for the 100-year event. The proposed model represents the conceptual design for the preferred alternative as discussed in our meeting last year.

Please let me know if you have any questions.

Take care,

Emily Cameron, P.Eng
Water Resources Engineer, Water
D +647-616-3665
emily.cameron@aecom.com

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5090 Explorer Dr..
Mississauga, ON L4W 4T9, Canada
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LinkedIn Twitter Facebook Instagram

From: Sharon Lingertat <Sharon.Lingertat@trca.ca>
Sent: Wednesday, February 3, 2021 7:52 AM
To: Cameron, Emily <Emily.Cameron@aecom.com>; Dilnesaw Chekol <Dilnesaw.Chekol@trca.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Pun, Ken <ken.pun@aecom.com>; Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>; Suzanne Bevan <Suzanne.Bevan@trca.ca>
Subject: [EXTERNAL] CFN 62948 - RE: Flood Cluster 6

Good morning Emily,

Thank you for the heads up on this information.

Also please note that due to a shift in teams I am no longer taking care of Peel (lower Peel) files as I have moved over to the Scarborough/Durham area. As such, I've copied Suzanne Bevan, Senior Planner for Peel/York on this email.

Thanks,

Sharon Lingertat, B.Sc. (Hons), MCIP, RPP
Senior Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (416) 661-6600 ext. 5717
C: (647) 202-9031
E: sharon.lingertat@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

From: Cameron, Emily <Emily.Cameron@aecom.com>
Sent: Tuesday, February 2, 2021 7:59 PM
To: Sharon Lingertat <Sharon.Lingertat@trca.ca>; Dilnesaw Chekol <Dilnesaw.Chekol@trca.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>; Pun, Ken <ken.pun@aecom.com>; Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Subject: Flood Cluster 6

Hello,

Here is a quick update on the Malton Flood Cluster 6 project that AECOM is working on for the City of Mississauga. Your feedback at our virtual presentation in September was most appreciated and we wanted to let you know that several Drainage and Environmental reports will be sent your way in the near future. Once you have had a chance to review the documents, we hope to set up a meeting in March / April to discuss the next steps.

Also, the PCSWMM models for the project were requested, and I plan to send them to you tomorrow. Since they are quite large I'm going to send through WeTransfer if that's ok with you – please let me know who all I should send them to. I will include the 100-year existing and proposed models for the 12-hour AES storm.

Thanks very much,

Emily Cameron, P.Eng
Water Resources Engineer, Water
D +647-616-3665
emily.cameron@aecom.com

AECOM
5090 Explorer Dr..
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aecom.com

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Subject: RE: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre - TRCA Response to notification

From: Shirin Varzgani <Shirin.Varzgani@trca.ca>
Sent: June 20, 2023 10:35 AM
To: 'Anthony DiGiandomenico' <Anthony.DiGiandomenico@mississauga.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>
Subject: FW: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre - TRCA Response to notification

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Report Suspicious

Hi Anthony,

Please see the attached letter.

Should you have any questions, please do not hesitate to contact me.

Thank you and regards,

Shirin Varzgani, MIP, MES (Pl.) (she, her, hers)
Senior Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (437) 880-2429
E: shirin.varzgani@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: Wednesday, June 14, 2023 2:53 PM
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>
Subject: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre

Hello,

The City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.

A narrated Public Information Centre (PIC) presentation and comment form will be posted to the City's project webpage (www.mississauga.ca/malton-flood-mitigation) starting June 16, 2023 that presents the findings of this study, including the preliminary preferred solution. Please find attached the Notice of PIC for further information and how to provide feedback.

Thank you for your interest in this study.

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
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June 20, 2023 CFN 62948

BY E-MAIL ONLY (anthony.digiandomenico@mississauga.ca)

Anthony DiGiandomenico
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1

Dear Anthony DiGiandomenico,

Re: Notice of Public Information Centre
Malton Flood Mitigation Study – Etude Drive to Justine Drive
Municipal Class Environmental Assessment – Schedule B
Mimico Creek Watershed; City of Mississauga; Regional Municipality of Peel

These comments respond to the notice that Toronto and Region Conservation Authority (TRCA) received on June 14, 2023.

TRCA REVIEW

1. Further to TRCA correspondence dated April 1, 2020, staff have expressed interest in this project.
2. Staff will be reviewing the online Public Information Centre (PIC) posted on the City's webpage and comments on the presentation slides will be provided to the City.

Should you have any questions, please contact me at 437.880.2429 or at Shirin.varzgani@trca.ca.

Regards,

Shirin Varzgani

Shirin Varzgani, MES (Pl.), MIP,
Senior Planner, Infrastructure Planning and Permits
Development and Engineering Services

SV/

BY E-MAIL

cc: AECOM: Derek Gray, Project Manager (derek.gray@aecom.com)

From: Zandvliet, Samantha
Sent: Thursday, August 24, 2023 2:29 PM
To: Shirin Varzgani
Cc: Anthony DiGiandomenico; Gray, Derek; Sood, Abhi; Grueneis, Karl
Subject: FW: CFN 62948 - Malton Flood Mitigation Study - TRCA Response to PIC - 60620028
Attachments: CFN 62948 - Malton Flooding Study_TRCA Response to PIC.pdf; L-2023-08-24-Malton Flood Mitigation_TRCA_CFN 62948-60520028.pdf

Good afternoon Shirin,

Thank you for TRCA's comments in response to the online PIC for the Malton Flood Mitigation Study. Please find attached our response to your comments.

I will forward you a copy of the draft Project File when it is ready for your review.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
aecom.com

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From: Gray, Derek <Derek.Gray@aecom.com>
Sent: Tuesday, August 1, 2023 5:07 PM
To: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>; Sood, Abhi <Abhi.Sood@aecom.com>
Cc: Grueneis, Karl <Karl.Grueneis@aecom.com>
Subject: FW: CFN 62948 - Malton Flood Mitigation Study - TRCA Response to PIC - 60620028

From: Shirin Varzgani <Shirin.Varzgani@trca.ca>
Sent: July 28, 2023 11:13 AM
To: 'Anthony DiGiandomenico' <Anthony.DiGiandomenico@mississauga.ca>
Cc: Gray, Derek <Derek.Gray@aecom.com>
Subject: CFN 62948 - Malton Flood Mitigation Study - TRCA Response to PIC

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Report Suspicious

Hi Anthony,

Please see the attached TRCA response to PIC.

Please let me know if you have any questions regarding this project. Moving forward, please direct all future correspondence related to this project directly to me.

Thank you and have a great day.

Shirin Varzgani, MIP, MES (Pl.) (she, her, hers)
Senior Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (437) 880-2429
E: shirin.varzgani@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

July 28, 2023 CFN 62948

BY E-MAIL ONLY (anthony.digiandomenico@mississauga.ca)

Anthony DiGiandomenico
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1

Dear Anthony DiGiandomenico,

Re: Notice of Public Information Centre
Malton Flood Mitigation Study – Etude Drive to Justine Drive
Municipal Class Environmental Assessment – Schedule B
Mimico Creek Watershed; City of Mississauga; Regional Municipality of Peel

These comments respond to the notice received by Toronto and Region Conservation Authority (TRCA) staff on June 14, 2023 and Public Information Centre (PIC) information posted June 16, 2023.

OVERVIEW

This project involves a Schedule B Municipal Class Environmental Assessment (Class EA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the City of Mississauga. The purpose of this study to mitigate urban flooding risks to people, property and infrastructure for the community within the study area. Alternative solutions to help mitigate flooding will be identified and evaluated to arrive at a preferred solution.

TRCA REVIEW

Staff have completed the review of this submission and have the following comments that should be addressed as the EA progresses.

1. Please note that the City of Mississauga has also completed the Mimico Creek Erosion Control Project – a Schedule B Municipal Class Environmental Assessment Study for Mimico Creek East Branch from Etude Drive to Derry Road East and Mimico Creek West Branch at Rena Road that was reviewed by the TRCA under CFN 62348. Please ensure coordination with City staff, Greg Frew - Project Manager, for impacts to Mimico Creek arising from alternative solutions out-letting into Mimico Creek East Branch just north of Derry Road.

2. a. Ensure that geotechnical studies are conducted to inform the design of all proposed works.
   b. As well, for works at the watercourse and the channel design, ensure that fluvial geomorphological and geotechnical studies are undertaken to inform the design of the

proposed works and are reviewed by fluvial geomorphologist and geotechnical engineers. The channel works and grade alterations will need to be designed so that they remain stable over the long-term.

c. TRCA can provide comments upon submission of all these studies, as well as future detail designs and plans.

3. The Alternative Solutions 2-5 all propose storage in Ridgewood Park. Furthermore, the Preferred Solution shows a larger box culvert (3.0 m span and 1.8 m height) replacing the existing storm sewer that drains out into Mimico Creek east branch just north of Derry Road. This park area where the culvert outlets into the creek, which is adjacent to Derry Greenway Park, contains portions of the NHS and Mimico Creek. TRCA recommends that efforts be made to avoid impacts and removals of the NHS and lands adjacent to the creek. Please note that an environmental impact study/assessment should be included as part of the Class EA, with the impacts of each alternative solution assessed. TRCA can provide comments upon submission, as well as future detail designs and additional plans (i.e. restoration plans, erosion and sediment control plans).

Should you have any questions, please contact me at 437.880.2429 or at Shirin.varzgani@trca.ca.

Regards,

Shirin Varzgani

Shirin Varzgani, MES (Pl.), MIP
Senior Planner, Infrastructure Planning and Permits
Development and Engineering Services

SV/

BY E-MAIL

cc: AECOM: Derek Gray, Project Manager (derek.gray@aecom.com)

AECOM Canada Ltd.
5080 Commerce Blvd
Mississauga, ON L4W 4P2
Canada

aecom.com

August 24 2023

Your Reference
CFN 62948

Our Reference
60520028

BY E-MAIL ONLY

Shirin Varzgani, MES (Pl.), MIP
Senior Planner, Infrastructure Planning and
Permits Development and Engineering Services
Toronto and Region Conservation Authority
101 Exchange Avenue
Vaughan, ON L4K SR6

Response to Public Information Centre Comments
Malton Flood Mitigation Study - Etude Drive to Justine Drive
Municipal Class Environmental Assessment - Schedule B
Mimico Creek Watershed; City of Mississauga; Regional Municipality of Peel

Dear Shirin Varzgani:

Thank you for TRCA staff comments dated July 28, 2023 regarding the Public Information Centre (PIC) information posted June 16, 2023. We have reviewed your comments and have prepared the below responses presented in **Table 1**.

Table 1: Response to July 28, 2023 TRCA PIC Comments

Item	TRCA Comments	AECOM Responses
1.	Please note that the City of Mississauga has also completed the Mimico Creek Erosion Control Project - a Schedule B Municipal Class Environmental Assessment Study for Mimico Creek East Branch from Etude Drive to Derry Road East and Mimico Creek West Branch at Rena Road that was reviewed by the TRCA under CFN 62348. Please ensure coordination with City staff, Greg Frew - Project Manager, for impacts to Mimico Creek arising from alternative solutions out-letting into Mimico Creek East Branch just north of Derry Road.	Noted. The Project Team will coordinate impacts with the Mimico Creek Erosion Control Project.
2a.	Ensure that geotechnical studies are conducted to inform the design of all proposed works	Geotechnical work has been completed and is being used as part of the detail design. In addition, hydrogeology and environmental quality (surplus soil) work was completed and will be incorporated into the detail design.
2b.	As well, for works at the watercourse and the channel design, ensure that fluvial geomorphological and geotechnical studies are undertaken to inform the design of the proposed works and are reviewed by fluvial geomorphologist and geotechnical engineers. The channel works and grade alterations will need to be designed so that they remain stable over the long-term.	A fluvial geomorphological assessment has been completed and will be appended to the Project File. Geotechnical work has been completed and is being used as part of the detail design. In addition, hydrogeology and environmental quality (surplus soil) work was completed and will be incorporated into the detail design.

Item	TRCA Comments	AECOM Responses
		The design will be reviewed by fluvial geomorphologist and geotechnical engineers.
2c.	TRCA can provide comments upon submission of all these studies, as well as future detail designs and plans.	Comment noted. AECOM will circulate the draft Project File and supporting studies before this documentation is posted for public review. We will also circulate the future detail design with the TRCA permit application.
3.	The Alternative Solutions 2-5 all propose storage in Ridgewood Park. Furthermore, the Preferred Solution shows a larger box culvert (3.0 m span and 1.8 m height) replacing the existing storm sewer that drains out into Mimico Creek east branch just north of Derry Road. This park area where the culvert outlets into the creek, which is adjacent to Derry Greenway Park, contains portions of the NHS and Mimico Creek. TRCA recommends that efforts be made to avoid impacts and removals of the NHS and lands adjacent to the creek. Please note that an environmental impact study/assessment should be included as part of the Class EA, with the impacts of each alternative solution assessed. TRCA can provide comments upon submission, as well as future detail designs and additional plans (i.e. restoration plans, erosion and sediment control plans).	A Natural Environment Report has been previously completed and will be appended to the draft Project File submission that assesses the various alternatives. Inputs from the Natural Environment Report will be used to inform the environmental potential effects evaluation of each alternative in the Project File Report.

If you have any questions regarding the responses, please reach out to the undersigned. You will receive the draft Project File for review and comment prior to it being posted for the 30-day public review.

Yours sincerely,

Samantha Zandvliet
Environmental Planner
AECOM Canada Ltd.
E: Samantha.Zandvliet@aecom.com

cc: Anthony DiGiandomenico, City of Mississauga
Muneef Ahmad, City of Mississauga
Derek Gray, AECOM Canada Ltd.
Abhi Sood, AECOM Canada Ltd.
Karl Grueneis, AECOM Canada Ltd.

From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: Wednesday, December 13, 2023 9:49 AM
To: Shirin Varzgani
Cc: Zandvliet, Samantha; Suzanne Bevan; Gray, Derek
Subject: RE: CFN 62948 - Malton Flood Mitigation Study - Draft ESR - TRCA Comments
Attachments: FW: CFN 62948 - Malton Flood Mitigation Study - TRCA Response to PIC - 60620028

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Hi Shirin,

Thank you for the comments from TRCA on the draft Project File Report. We will review them and provide responses. Please also f nd a. ached earlier responses to TRCA's comments of July 28, 2023, which we can include in the comment response table/matrix for ease of reference.

The provided link on how to pay TRCA review fees doesn't seem to be working for me. Could you kindly send me a revised link?

Could you or your accounts team please email me an invoice in the fee amount of $5,005 and include my email address, the project name, and purpose of fee request (i.e. EA Act review for Schedule B – Minor) on the invoice? Once we have that we should be able to process the payment.

Thanks,
Anthony

MISSISSAUGA

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: Shirin Varzgani <Shirin.Varzgani@trca.ca>
Sent: Tuesday, December 12, 2023 2:05 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>; Suzanne Bevan <Suzanne.Bevan@trca.ca>
Subject: CFN 62948 - Malton Flood Mitigation Study - Draft ESR - TRCA Comments

Hi Anthony,

Please see the attached letter and Appendices.

If you have any questions, please do not hesitate to contact me.

Thank you and regards,

Shirin Varzgani, MIP, MES (Pl.) (she, her, hers)
Senior Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (437) 880-2429
E: shirin.varzgani@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

December 12, 2023 CFN 62948

BY E-MAIL ONLY (anthony.digiandomenico@mississauga.ca)

Anthony DiGiandomenico
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1

Dear Anthony DiGiandomenico,

Re: Draft Project File Report (PFR)
Malton Flood Mitigation Study – Etude Drive to Justine Drive
Municipal Class Environmental Assessment – Schedule B
Mimico Creek Watershed; City of Mississauga; Regional Municipality of Peel

These comments respond to the application received by Toronto and Region Conservation Authority (TRCA) on October 25, 2023

OVERVIEW

This project involves a study to develop a flood mitigation plan for general area between Etude Drive and Justine Drive in the City of Mississauga. The purpose of this is to mitigate urban flooding risks to people, property, and infrastructure in the study area. Five alternative solutions have been identified and evaluated. Based on the evaluations, Alternative 1 has been deemed as the Preferred Alternative. Under Alternative 1, the proposed project involves the replacement of the existing 1650 mm storm sewer beneath the pedestrian pathway and within existing City property with a new box storm sewer from Etude Drive to the Mimico Creek outfall channel in Derry Greenway Park, regrading of the walkway to a over land flow path and installation of a new upgraded outlet at the channel outlet south of Justine Drive.

The Study was undertaken in accordance with the Schedule 'B' projects, as outlined in the Municipal Class Environmental Assessment (Class EA) document (October 2000, amended in 2015), approved under the *Ontario Environmental Assessment Act*.

A listing of documents reviewed is provided in Appendix A: Documents Reviewed by TRCA.

COMMENTING ROLE

Staff have reviewed the study area associated with this project in accordance with the Conservation Authorities Act, including mandatory commenting on Planning Act and Environmental Assessment Act applications. TRCA undertakes review and commenting functions in accordance with The Living City Policies.

TRCA REVIEW

1. Staff have completed the review of this submission and have several comments which are enclosed as Appendix B: TRCA Comments and Proponent Responses. These should be addressed as the EA progresses.

RESUBMISSION REQUIREMENTS

1. Follow the TRCA Digital Submission Requirements for Environmental Assessment Documents to ensure all required information is provided in future submissions.

2. This application is subject to a $ 5,005.00 application review fee as per our Fee Schedule. For payment options, refer to How to Pay TRCA Review Fees. Ensure your accounting department references CFN 62948 when making payment.

Should you have any questions or comments, please contact the undersigned.

Regards,

Shirin Varzgani

Shirin Varzgani
Senior Planner
Infrastructure Planning and Permits I Development and Engineering Services
Telephone: 1.437-880-2429
Email: Shirin.varzgani@trca.ca

SV/

Attached: Appendix A: Documents Reviewed by TRCA
Appendix B: TRCA Comments and Proponent Responses
Appendix C: TRCA Comments and Proponent Responses – July 28, 2023
Enclosed: Appendix B: TRCA Comments and Proponent Responses, WORD digital file for consultant/proponent response purposes

BY E-MAIL

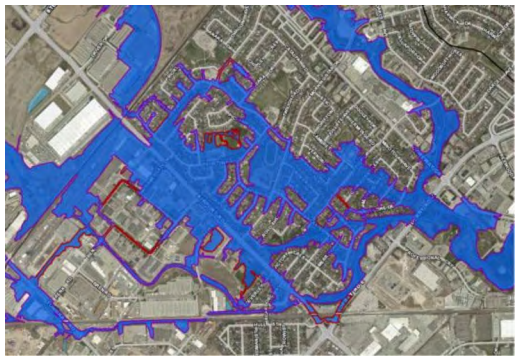
cc:
AECOM: Samantha Zandvliet, Environmental Planner (Samantha.zandvliet@aecom.com)
TRCA: Suzanne Bevan, Senior Manager, Infrastructure Planning and Permits

APPENDIX A: DOCUMENTS REVIEWED BY TRCA

DOCUMENTS REVIEWED

1. Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive – Draft Project File Report; prepared by AECOM; dated October 2023; received by TRCA on October 25, 2023;
2. Appendix A – Stormwater Management Report – Conceptual Design (Draft); prepared by AECOM; dated February 2021;
3. Appendix B – Flood Mitigation Preliminary Design Report (Draft): prepared by AECOM; dated September 2023;
4. Appendix C – Natural Environment Report (Draft); prepared by AECOM; dated September 2023;
5. Appendix D – Arborist Report and Tree Preservation Plan; prepared by AECOM; dated January 2021;
6. Appendix E – Fluvial Geomorphological Assessment Report (Draft); prepared by AECOM; dated December 2020;
7. Appendix F – Stage 1 Archaeological Assessment Report; prepared by AECOM; dated December 23, 2021;
8. Appendix G – Cultural Heritage Memorandum – Desktop Review; prepared by AECOM; dated December 14, 2020;
9. Appendix H – Public Consultation Record; prepared by AECOM;
10. Appendix I – Agency and Stakeholder Consultation Record; prepared by AECOM;
11. Appendix J – Indigenous Communities Consultation Record; prepared by AECOM;

APPENDIX B: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
1.	**Water Resources**		TRCA staff has no objections to the proposed flood mitigation measures to alleviate the stormwater management issues within the subject neighborhood. Please note that this proposed mitigation measure is not intended to address the flooding issue resulted from the regulatory storm which is Hurricane Hazel storm. As a result this area will remain to be a spill area during Hurricane Hazel storm (please see the map below). 	
2.	**Geotechnical Engineering**		Please refer to the comments provided on July 28, 2023 (Appendix C). Staff will provide further comments upon submission of these studies at the detailed design stage.	
3.	**Planning Ecology**		As per the preferred solution, Alternative 1, TRCA recommends that natural channel design options be implemented for the in-water channel reconstruction works and that options be explored to replace the existing failing gabion baskets with alternative bioengineered bank restoration approaches suitable for the natural area, including, but not limited to, soil wraps, log-crib baskets,	

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
			root wads, and vegetated rock buttresses. The proponent is encouraged to refer to TRCA's Channel Modification Design and Submission Requirements for guidance available at: https://trcaca.s3.ca-central-1.amazonaws.com/app/uploads/2016/02/17185407/CHANNEL_MODIFICATION_REQUIREMENTS.pdf	
4.			Proposed tree removals for Alternative 1 as detailed within the Arborist Report and Tree Preservation Plan include all trees within the FOD7 community along the outlet channel and Mimico Creek outlet. However, Figure 3 in Appendix C, Preferred Solution Alternative 1, identifies approximately half of the trees located within the FOD7 community for removal. As noted within the Natural Environment Report, the FOD7 community contains potential bat maternity roost trees. Accordingly, to reduce the impact to the natural system and any other potential removals (e.g. SAR habitat, MECP), please clarify the quantity of tree removals from the FOD7 community and explore options to avoid, minimize, and mitigate these impacts.	
5.			Alternative 1 proposes impacts and removals to the natural system associated with the Mimico Creek Valley system. As such, please note that TRCA will require compensation for vegetation removals and full restoration of all disturbed areas. The proponent is encouraged to refer to TRCA's Guideline for Determining Ecosystem Compensation and Post-Construction Restoration Guidelines for guidance. TRCA staff to provide review of compensation and restoration plans upon submission. TRCA's Guideline for Determining Ecosystem	

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
			Compensation is available at: https://trcaca.s3.ca-central-1.amazonaws.com/app/uploads/2023/08/18123313/TRCA-Ecosystem-Compensation-Guideline-June-2023.pdf TRCA's Post-Construction Restoration Guidelines is available at: https://trca.ca/app/uploads/2016/02/Post-Construction_Restoration_Guidelines_July_2004.pdf	
6.			Please note that a detailed Erosion and Sediment Control Plan will be required at detail design. The proponent is encouraged to refer to TRCA's Erosion and Sediment Control Guide for Urban Construction for guidance and is available at: https://sustainabletechnologies.ca/app/uploads/2020/01/ESC-Guide-for-Urban-Construction_FINAL.pdf. TRCA staff to provide review upon submission.	
7.	**Restoration**		This is for your information only, please note that TRCA's Erosion Risk Management team has completed the *Malton Greenway Sanitary Infrastructure Protection Project* in partnership with the Region of Peel at this location at the end of 2021. Please refer to the map of this project below (the purple polygon). A 137m long vegetated crock buttress was constructed on the left bank to protect adjacent sanitary infrastructure.	

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
8.			Please note that there are potential planting opportunities available in the area close to the project location. The trees removed can be compensated and planted in the valley around the project location, please refer to the map below.	

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)

APPENDIX C: TRCA COMMENTS AND PROPONENT RESPONSES – JULY 28, 2023

ITEM	TRCA COMMENTS (July 28, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
1.	Please note that the City of Mississauga has also completed the Mimico Creek Erosion Control Project – a Schedule B Municipal Class Environmental Assessment Study for Mimico Creek East Branch from Etude Drive to Derry Road East and Mimico Creek West Branch at Rena Road that was reviewed by the TRCA under	

ITEM	TRCA COMMENTS (July 28, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
	CFN 62348. Please ensure coordination with City staff, Greg Frew - Project Manager, for impacts to Mimico Creek arising from alternative solutions out-letting into Mimico Creek East Branch just north of Derry Road.	
2.	a. Ensure that geotechnical studies are conducted to inform the design of all proposed works. b. As well, for works at the watercourse and the channel design, ensure that fluvial geomorphological and geotechnical studies are undertaken to inform the design of the proposed works and are reviewed by fluvial geomorphologist and geotechnical engineers. The channel works and grade alterations will need to be designed so that they remain stable over the long-term. c. TRCA can provide comments upon submission of all these studies, as well as future detail designs and plans.	
3.	The Alternative Solutions 2-5 all propose storage in Ridgewood Park. Furthermore, the Preferred Solution shows a larger box culvert (3.0 m span and 1.8 m height) replacing the existing storm sewer that drains out into Mimico Creek east branch just north of Derry Road. This park area where the culvert outlets into the creek, which is adjacent to Derry Greenway Park, contains portions of the NHS and Mimico Creek. TRCA recommends that efforts be made to avoid impacts and removals of the NHS and lands adjacent to the creek. Please note that an environmental impact study/assessment should be included as part of the Class EA, with the impacts of each alternative solution assessed. TRCA can provide comments upon submission, as well as future detail	

ITEM	TRCA COMMENTS (July 28, 2023)	PROPONENT/CONSULTANT RESPONSE (INSERT DATE)
	designs and additional plans (i.e. restoration plans, erosion and sediment control plans).	

From: Zandvliet, Samantha
Sent: Monday, February 12, 2024 4:59 PM
To: Shirin Varzgani
Cc: Anthony DiGiandomenico; Suzanne.Bevan@trca.ca; Gray, Derek
Subject: CFN 62948 - Malton Flood Mitigation Study - Draft ESR - Response TRCA Comments
Attachments: APPENDIX B - CFN 62948 - Malton Flood Mitigation Study - Draft ESR Report_TRCA Response_ 2024-02-12.pdf

Good a. ernoon Shirin,

Please f nd attached our responses to the TRCA comments dated December 12, 2023. The Project File will be posted for 30-day review at the end of February and you will receive the notice of completion when it is issued.

If you have any questions, please do not hesitate to contact me.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

AECOM
45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
aecom.com

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APPENDIX B: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
1.	**Water Resources**		TRCA staff has no objections to the proposed flood mitigation measures to alleviate the stormwater management issues within the subject neighborhood. Please note that this proposed mitigation measure is not intended to address the flooding issue resulted from the regulatory storm which is Hurricane Hazel storm. As a result this area will remain to be a spill area during Hurricane Hazel storm (please see the map below). 	Acknowledged.
2.	**Geotechnical Engineering**		Please refer to the comments provided on July 28, 2023 (Appendix C). Staff will provide further comments upon submission of these studies at the detailed design stage.	Acknowledged.
3.	**Planning Ecology**		As per the preferred solution, Alternative 1, TRCA recommends that natural channel design options be implemented for the in-water channel reconstruction works and that options be explored to replace the existing failing gabion	Noted and will be considered as detail design progresses.

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
			baskets with alternative bioengineered bank restoration approaches suitable for the natural area, including, but not limited to, soil wraps, log-crib baskets, root wads, and vegetated rock buttresses. The proponent is encouraged to refer to TRCA's Channel Modification Design and Submission Requirements for guidance available at: https://trcaca.s3.ca-central-1.amazonaws.com/app/uploads/2016/02/17185407/CHANNEL_MODIFICATION_REQUIREMENTS.pdf	
4.			Proposed tree removals for Alternative 1 as detailed within the Arborist Report and Tree Preservation Plan include all trees within the FOD7 community along the outlet channel and Mimico Creek outlet. However, Figure 3 in Appendix C, Preferred Solution Alternative 1, identifies approximately half of the trees located within the FOD7 community for removal. As noted within the Natural Environment Report, the FOD7 community contains potential bat maternity roost trees. Accordingly, to reduce the impact to the natural system and any other potential removals (e.g. SAR habitat, MECP), please clarify the quantity of tree removals from the FOD7 community and explore options to avoid, minimize, and mitigate these impacts.	The Arborist Report and Tree Preservation Plan was developed based on the initial MCEA alternatives and is intended to be updated during detail design. The ultimate construction footprint and number of impacted trees will be updated as detail design progresses.
5.			Alternative 1 proposes impacts and removals to the natural system associated with the Mimico Creek Valley system. As such, please note that TRCA will require compensation for vegetation removals and full restoration of all disturbed	Details related to compensation requirements will be developed as detail design progresses.

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
			areas. The proponent is encouraged to refer to TRCA's Guideline for Determining Ecosystem Compensation and Post-Construction Restoration Guidelines for guidance. TRCA staff to provide review of compensation and restoration plans upon submission. TRCA's Guideline for Determining Ecosystem Compensation is available at: https://trcaca.s3.ca-central-1.amazonaws.com/app/uploads/2023/08/18123313/TRCA-Ecosystem-Compensation-Guideline-June-2023.pdf TRCA's Post-Construction Restoration Guidelines is available at: https://trca.ca/app/uploads/2016/02/Post-Construction_Restoration_Guidelines_July_2004.pdf	
6.			Please note that a detailed Erosion and Sediment Control Plan will be required at detail design. The proponent is encouraged to refer to TRCA's Erosion and Sediment Control Guide for Urban Construction for guidance and is available at: https://sustainabletechnologies.ca/app/uploads/2020/01/ESC-Guide-for-Urban-Construction_FINAL.pdf. TRCA staff to provide review upon submission.	Noted. An Erosion and Sediment Control Plan will be prepared following these guidelines as detail design progresses.
7.	**Restoration**		This is for your information only, please note that TRCA's Erosion Risk Management team has	Acknowledged.

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
			completed the *Malton Greenway Sanitary Infrastructure Protection Project* in partnership with the Region of Peel at this location at the end of 2021. Please refer to the map of this project below (the purple polygon). A 137m long vegetated crock buttress was constructed on the left bank to protect adjacent sanitary infrastructure. 	We are requesting that TRCA staff please provide as-built drawings for the noted project.
8.			Please note that there are potential planting opportunities available in the area close to the project location. The trees removed can be compensated and planted in the valley around	Acknowledged. Compensation will be determined as detail design progresses.

ITEM	DISCIPLINE	DOCUMENT	TRCA COMMENTS (December 12, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
			the project location, please refer to the map below. 	

APPENDIX C: TRCA COMMENTS AND PROPONENT RESPONSES – JULY 28, 2023

ITEM	TRCA COMMENTS (July 28, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
1.	Please note that the City of Mississauga has also completed the Mimico Creek Erosion Control Project – a Schedule B Municipal Class Environmental Assessment Study for Mimico Creek East Branch from Etude Drive to Derry Road East and Mimico Creek West Branch at Rena Road that was reviewed by the TRCA under CFN 62348. Please ensure coordination with City staff, Greg Frew - Project Manager, for impacts to Mimico Creek arising from alternative solutions out-letting into Mimico Creek East Branch just north of Derry Road.	Response provided on August 24, 2023.
2.	a. Ensure that geotechnical studies are conducted to inform the design of all proposed works. b. As well, for works at the watercourse and the channel design, ensure that fluvial geomorphological and geotechnical studies are undertaken to inform the design of the proposed works and are reviewed by fluvial geomorphologist and geotechnical engineers. The channel works and grade alterations will need to be designed so that they remain stable over the long-term. c. TRCA can provide comments upon submission of all these studies, as well as future detail designs and plans.	Response provided on August 24, 2023.

ITEM	TRCA COMMENTS (July 28, 2023)	PROPONENT/CONSULTANT RESPONSE (February 12, 2024)
3.	The Alternative Solutions 2-5 all propose storage in Ridgewood Park. Furthermore, the Preferred Solution shows a larger box culvert (3.0 m span and 1.8 m height) replacing the existing storm sewer that drains out into Mimico Creek east branch just north of Derry Road. This park area where the culvert outlets into the creek, which is adjacent to Derry Greenway Park, contains portions of the NHS and Mimico Creek. TRCA recommends that efforts be made to avoid impacts and removals of the NHS and lands adjacent to the creek. Please note that an environmental impact study/assessment should be included as part of the Class EA, with the impacts of each alternative solution assessed. TRCA can provide comments upon submission, as well as future detail designs and additional plans (i.e. restoration plans, erosion and sediment control plans).	Response provided on August 24, 2023.

AECOM

Peel Region

Subject: RE: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre

From: Gray, Derek
Sent: August 22, 2023 4:48 PM
To: Saddi, Asha <asha.saddi@peelregion.ca>; McMillen, Kayle <kayle.mcmillen@peelregion.ca>
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Sood, Abhi <Abhi.Sood@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre

Good afternoon Asha/Kayle,

Thank you for your comments from the PIC for the Malton Flood Mitigation Study.

With respect to the Region's comments please see below:

- AECOM's original concept included benches along the trail, but the residents in the area were very resistant to including them as the existing walkway is subject to unwelcome use. Based on these comments the benches were removed, however, other streetscaping strategies are being implemented to improve safety and promote a sense of community.
- Replacement trees along the walkway will be finalized during detail design as it proceeds.

Should you have any other questions please reach out to us.

Stay well,

Derek R. Gray, P.Eng., A.A.E., I.R.P.
Climate Change Specialist
derek.gray@aecom.com

My work day may look different than your work day. There is no need to read, act on or respond to my e-mail outside of your normal working hours. The best way to reach me is via email as my office hours are generally Tuesday afternoon till end of business Thursday.

Extended Absences Alert - September 8 – 25 Inclusive

From: Saddi, Asha <asha.saddi@peelregion.ca>
Sent: July 26, 2023 9:22 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <Derek.Gray@aecom.com>
Subject: FW: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre

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Report Suspicious

Good morning Anthony,

Our stormwater management team would like to confirm if there is a hydrology or stormwater management report for the EA. The team was unable to locate it in the PIC materials on the project website.

Thanks,

Asha Saddi, BA(Hons), PMP
Technical Analyst, Transportation Development
Transportation Division, Public Works
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
Tel: 905 791 7800 ext. 7794

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From: Saddi, Asha
Sent: July 10, 2023 11:34 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <derek.gray@aecom.com>
Cc: McMillen, Kayle <Kayle.McMillen@peelregion.ca>
Subject: FW: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre

Hi Anthony,
Thank you for the opportunity to review the PIC materials. Our Public Health team has the following comments:

Public Health - Built Environment Team – Kayle McMillen
Peel Public Health supports the preliminary preferred solution (Alternative 1), as this option will result in upgrades to the existing pedestrian walkway into a multi-use trail with streetscaping improvements. This pathway provides an alternative route option, which increases the connectivity within the subdivision for pedestrians and cyclists. The proposed streetscaping improvements will make the pathway more accessible, attractive, comfortable and safe, which can encourage more residents to use the path for both recreation and active transportation. Please see some additional considerations for the detailed design below:

- There were some resident concerns related to loitering and litter along the path and a recommendation to not include benches. It is important to note that benches improve the accessibility of a pathway for people of all ages and abilities by providing rest stops, especially for seniors. During the detailed design phase, consider the risks and benefits of benches in this location as well as other streetscaping strategies to address this issue, such as increased lighting, improved sightlines, garbage/recycling receptacles and even the potential effect of increased traffic along the pathway. A well designed streetscape can promote community interaction, improve safety and reduce the incidence of crime.
- Consider planting trees in areas where the path would get high sun exposure, in addition to the replacement trees. An expansive tree cover provides shade, enhances the pedestrian experience as well as mitigates the effects of climate change.

I will be in touch again if our other teams have comments and in the meantime we look forward to receiving your response comments.

Thanks,

Asha Saddi, BA(Hons), PMP
Technical Analyst, Transportation Development
Transportation Division, Public Works
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
Tel: 905 791 7800 ext. 7794

Region of Peel
working with you

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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: June 14, 2023 2:53 PM
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Derek Gray <derek.gray@aecom.com>
Subject: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hello,

The City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.

A narrated Public Information Centre (PIC) presentation and comment form will be posted to the City's project webpage (www.mississauga.ca/malton-flood-mitigation) starting June 16, 2023 that presents the findings of this study, including the preliminary preferred solution. Please find attached the Notice of PIC for further information and how to provide feedback.

Thank you for your interest in this study.

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
T +1-905-578-3040
aecom.com

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From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: Monday, November 20, 2023 9:27 AM
To: Saddi, Asha
Cc: Gray, Derek; Grueneis, Karl; McMillen, Kayle; Zandvliet, Samantha
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for Peel Region Review

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Report Suspicious

Hi Asha,

Thanks for the comment from Peel's Public Health team and we will take that comment into consideration.

We appreciate the feedback.

Thank you,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: Saddi, Asha <asha.saddi@peelregion.ca>
Sent: Friday, November 17, 2023 2:51 PM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Gray, Derek <derek.gray@aecom.com>; karl.grueneis <karl.grueneis@aecom.com>; McMillen, Kayle <kayle.mcmillen@peelregion.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for Peel Region Review

Hi Anthony,
Our Public Health team has reviewed the draft report and would like the City to consider future opportunities to add rest stops near entries/exits of the MUP to support accessibility and design for all ages and abilities, given that benches were not included along this MUP in response to community feedback.

Thanks,

Asha Saddi, BA(Hons), PMP

Technical Analyst, Transportation Development
Transportation Division, Public Works
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
Tel: 905 791 7800 ext. 7794

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From: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Sent: October 26, 2023 1:19 PM
To: Saddi, Asha <asha.saddi@peelregion.ca>
Cc: Gray, Derek <derek.gray@aecom.com>; karl.grueneis <karl.grueneis@aecom.com>; McMillen, Kayle <kayle.mcmillen@peelregion.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for Peel Region Review

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Hi Asha,

Thanks for the reply and just to clarify we're actually targeting to receive comments before Nov. 24th but it's always helpful if we receive them earlier, if that's possible.

Looking forward to the Region's comments.

Thanks,
Anthony

Anthony Di Giandomenico P.Eng.
Storm Drainage Engineer, Environmental Services
T 905-615-3200 ext.3491 | M 647-285-8291
anthony.digiandomenico@mississauga.ca

City of Mississauga | Transportation & Works Department
Infrastructure Planning & Engineering Division

From: Saddi, Asha <asha.saddi@peelregion.ca>
Sent: Thursday, October 26, 2023 8:03 AM
To: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>
Cc: Gray, Derek <derek.gray@aecom.com>; karl.grueneis <karl.grueneis@aecom.com>; McMillen, Kayle

<kayle.mcmillen@peelregion.ca>; Zandvliet, Samantha <samantha.zandvliet@aecom.com>
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File for Peel Region Review

Hi Anthony,
Thank you for providing Peel stakeholders the opportunity to review the draft PFR. We will need time to review and get back with comments. Would November 16 work?

Thanks,

Asha Saddi, BA(Hons), PMP
Technical Analyst, Transportation Development
Transportation Division, Public Works
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
Tel: 905 791 7800 ext. 7794

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From: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Sent: October 25, 2023 4:29 PM
To: McMillen, Kayle <kayle.mcmillen@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>; Gray, Derek <derek.gray@aecom.com>; karl.grueneis <karl.grueneis@aecom.com>
Subject: Malton Flood Mitigation Study MCEA - Draft Project File for Peel Region Review

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Asha and Kayle,

We are currently finalizing the draft Project File for the City of Mississauga Malton Flood Mitigation Study - Etude Drive to Justine Drive, in advance of the public review period. Please see below for the link to download the draft Project File documentation for this Schedule B Municipal Class Environmental Assessment study.

Download link - Draft Project File

Please share this link with other Peel staff, as needed, and let our project team know if you have any questions or comments by November 24, 2023.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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Other Agencies and Stakeholders

Hydro One Networks Inc
483 Bay St
Toronto, ON

March 25, 2020

Re: Malton Flood Mitigation Study Etude Drive to Justine Drive

Attention:
Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.

Following our preliminary assessment, we confirm there are no existing Hydro One Transmission assets in the subject area. Please be advised that this is only a preliminary assessment based on current information.

However, if plans for the undertaking change or the study area expands beyond that shown, please contact Hydro One to assess impacts of existing or future planned electricity infrastructure.

Any future communications are sent to Secondarylanduse@hydroone.com.

Be advised that any changes to lot grading and/or drainage within or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

Sent on behalf of,

Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.

Hydro One Networks Inc.

483 Bay Street
8th Floor South Tower
Toronto, Ontario M5G 2P5

HydroOne.com

June 19, 2023

Re: Malton Flood Mitigation Study Etude Drive to Justine Drive

Attention:
Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.

Thank you for sending us notification regarding (Malton Flood Mitigation Study Etude Drive to Justine Drive). In our assessment, we confirm there are no existing Hydro One Transmission assets in the subject area.

If plans for the undertaking change or the study area expands beyond that shown, please contact Hydro One to assess impacts of existing or future planned electricity infrastructure.

Any future communications are sent to Secondarylanduse@hydroone.com.

Be advised that any changes to lot grading and/or drainage within proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor.

Sent on behalf of,

Secondary Land Use
Asset Optimization
Strategy & Integrated Planning
Hydro One Networks Inc.

AECOM

Appendix J

Indigenous Communities Consultation Record

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive
Table: Summary of Indigenous Consultation Record

Indigenous Community	Date	Consultation Activity	Method of Contact	Response / Action Items
Mississaugas of the Credit First Nation (MCFN) *Contacts:* *Chief R. Stacey LaForme, Abby LaForme*	March 18, 2020	Outgoing – Letter with Notice of Commencement	Email	• No action items
	June 14, 2023	Outgoing – Notice of Public Information Centre	Email	• No action items
	October 25, 2023	Outgoing – Draft Project File Circulation and Request for Stage 2 Archaeological Assessment Participation	Email	• No action items
	February 2024	Outgoing – Notice of Completion	Email	• To be confirmed
Six Nations of the Grand River Elected Council (SNGR) *Contacts:* *Chief Mark Hill, Lonny Bomberry, Tanya Hill-Montour*	March 18, 2020	Outgoing – Letter with Notice of Commencement	Email	• No action items
	June 14, 2023	Outgoing – Notice of Public Information Centre	Email	• No action items
	October 25, 2023	Outgoing – Draft Project File Circulation and Request for Stage 2 Archaeological Assessment Participation	Email	• No action items

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive
Table: Summary of Indigenous Consultation Record

Indigenous Community	Date	Consultation Activity	Method of Contact	Response / Action Items
	February 2024	Outgoing – Notice of Completion	Email	• To be confirmed
Haudenosaunee Development Institute on behalf of Haudenosaunee Confederacy Chiefs Council *Contacts: info@hdi.land*	March 18, 2020	Outgoing – Letter with Notice of Commencement	Email	• No action items
	June 14, 2023	Outgoing – Notice of Public Information Centre	Email	• No action items
	October 25, 2023	Outgoing – Draft Project File Circulation and Request for Stage 2 Archaeological Assessment Participation	Email	• HDI requested to participate in the Stage 2 Archaeological Assessment.
	February 2024	Outgoing – Notice of Completion	Email	• To be confirmed
Huron-Wendat Nation *Contacts:* *Dominic Ste-Marie*	June 14, 2023	Outgoing – Notice of Public Information Centre	Email	• No action items
	October 25, 2023	Outgoing – Draft Project File Circulation and Request for Stage 2 Archaeological Assessment Participation	Email	• No action items

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive
Table: Summary of Indigenous Consultation Record

Indigenous Community	Date	Consultation Activity	Method of Contact	Response / Action Items
	February 2024	Outgoing – Notice of Completion	Email	• To be confirmed

AECOM

Mississaugas of the Credit First Nation

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AECOM Canada Ltd.
201 – 45 Goderich Road
Hamilton, ON L8E 4W8
Canada

T: 905 578 3040
F: 905 578 4129
www.aecom.com

Fawn Sault
Mississaugas of the Credit First Nation
2789 Mississauga Road
RR #6
Hagersville, ON N0A 1H0

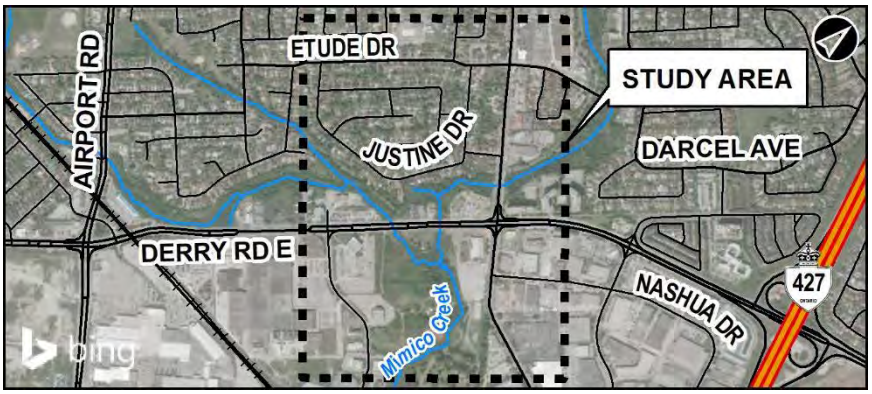
March 18, 2020

Project #
60620028

Dear Ms. Sault:

Subject: Malton Flood Mitigation Study – Etude Drive to Justine Drive, City of Mississauga
Municipal Class Environmental Assessment
PROJECT INTRODUCTION AND NOTICE OF STUDY COMMENCEMENT

The City of Mississauga (City) has initiated a Schedule B Municipal Class Environmental (Class EA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



The City has selected AECOM Canada Ltd. as the Consultant to carry out the Class EA and detailed design phases of the Project. This letter (and the attached Notice of Commencement) formalizes the onset of the study. The Class EA phase is anticipated to be completed in Fall 2020.

Work to be completed in support of the study includes the following:

- Flood modelling;
- Natural environment technical memorandum;
- Fluvial geomorphological assessment;
- Cultural heritage screening review;
- Stage 1 archaeological assessment;
- Tree inventory;
- Indigenous community engagement and consultation; and
- Public, agency and stakeholder consultation.

Potential Involvement of Your Community
As we proceed with the Class EA study, the Project Team is initiating the Indigenous Community engagement and consultation process. The Project Team would like to hear from the community of Mississaugas of the Credit First Nation and would welcome your inputs in determining the extent that your Community would like to

be involved in this process. Your input and feedback is important to us as we would like to know any issues or concerns your Community members may have.

As the study progresses, the Project Team will provide you with the results of analyses that may be of interest to your Community (e.g. environmental baseline studies, archaeological assessment, etc.).

Next Steps
We invite your Community to be involved in the engagement and consultation process. Kindly indicate whether your Community is interested in participating in our engagement activities by identifying your preferred key contact person and providing their contact information to one of our project team contacts listed below.

Should you have any questions, please do not hesitate to contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
201 City Centre Dr, Suite 800
Mississauga, ON L5B 2T4
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.
5080 Commerce Blvd
Mississauga, ON L4W 4P2
(416) 452-5390
derek.gray@aecom.com

On behalf of the Project Team, thank you in advance for your interest and potential involvement in this study.

Sincerely,
AECOM Canada Ltd.

Karl Grueneis

Karl Grueneis
Senior Environmental Planner
Karl.Grueneis@aecom.com

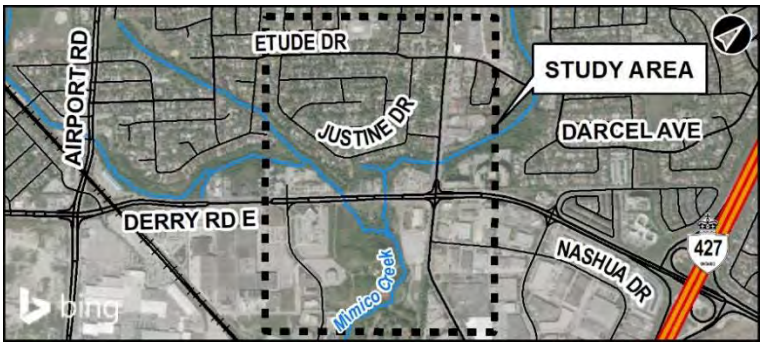
Encl: Notice of Study Commencement

CITY OF MISSISSAUGA – NOTICE OF STUDY COMMENCEMENT

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

WHAT?

- The City of Mississauga has initiated a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



WHY?

- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

HOW?

- The Study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution that will be presented at a Public Information Centre.
- Over the coming months project team environmental specialists will be walking the study area and making notes to document existing conditions to support the evaluation of alternative solutions.
- A Project File documenting the Class EA process will be available for public review at the end of the study.

GET INVOLVED!

- The City would like anyone with an interest in the Study to have an opportunity to provide input and help inform the decision-making process.
- A Public Information Centre (PIC) will be held to present the study findings and the alternative solutions being considered, including the preliminary preferred solution. The details of the PIC will be advertised closer to the date.
- The City may also hold a community site walk prior to the PIC to further explain the project and receive local input. Details on the community site walk will be provided to those who request to be added to the study mailing list.
- If you have comments or questions, require further information or would like to be added to the study mailing list to receive future notifications, please contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
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This notice was issued March,12, 2020

This notice signals the commencement of the Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

Personal information is collected under the authority of the Environmental Assessment Act and will be used in the assessment process. With exception of personal information, all comments shall become part of the public records. Questions about this collection should be directed to the Project Manager listed above.

From: Zandvliet, Samantha
Sent: Wednesday, June 14, 2023 2:53 PM
Cc: Anthony DiGiandomenico; Gray, Derek
Subject: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre
Attachments: City of Mississauga_Malton Flood Mitigation_Notice of PIC.pdf

Hello,

The City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.

A narrated Public Information Centre (PIC) presentation and comment form will be posted to the City's project webpage (www.mississauga.ca/malton-flood-mitigation) starting June 16, 2023 that presents the findings of this study, including the preliminary preferred solution. Please find attached the Notice of PIC for further information and how to provide feedback.

Thank you for your interest in this study.

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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aecom.com

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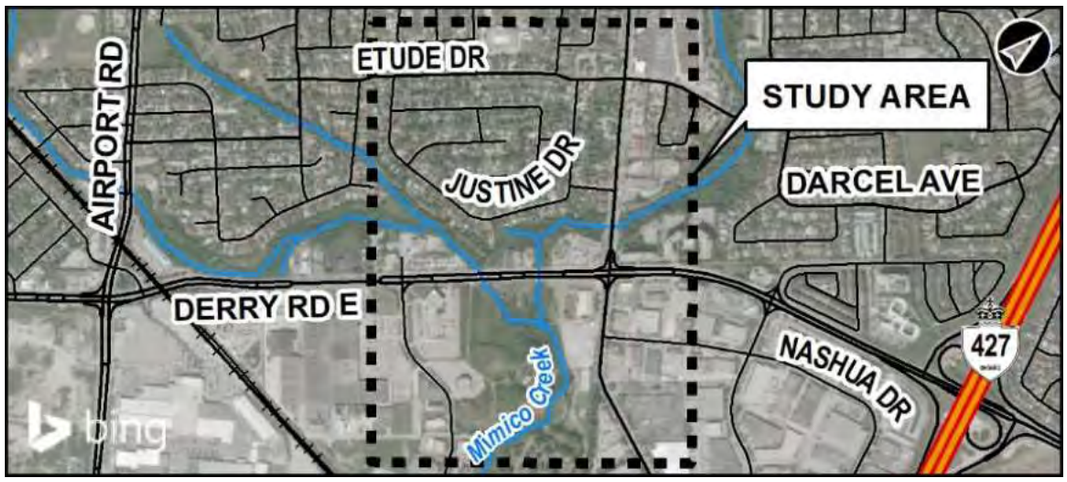
CITY OF MISSISSAUGA – NOTICE OF PUBLIC INFORMATION CENTRE

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

What?

- The City of Mississauga is undertaking a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



Why?

- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

How?

- The Study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution.
- A Project File documenting the Class EA process will be available for public review at the end of the study.

Public Consultation

- The City would like anyone with an interest in the Study to have an opportunity to provide input and help inform the decision-making process.
- An online Public Information Centre (PIC) will be posted to the City's webpage starting June 16, 2023 to present the findings of the Class EA study. The PIC will be a narrated presentation that will review the study's purpose, work completed to date and present the alternatives, including the preliminary preferred solution.
- The PIC will also summarize the feedback received from residents, how impacts are being addressed, next steps and how to stay engaged. Feedback is encouraged and comments are requested by **July 19, 2023**.
- The PIC materials will be available on the project website: **www.mississauga.ca/malton-flood-mitigation**
- If you have comments or questions, require further information or would like to be added to the study mailing list to receive future notifications, please contact:

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Project Manager
City of Mississauga
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Derek Gray, P.Eng., A.A.E
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5080 Commerce Blvd
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This notice signals the Notice of Public Information Centre for this Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

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This notice first issued on **June 14, 2023**.

From: Zandvliet, Samantha
Sent: Wednesday, October 25, 2023 5:11 PM
To: Abby.LaForme@mncfn.ca
Cc: Adam.LaForme@mncfn.ca; Mark LaForme; Anthony DiGiandomenico; Gray, Derek; Grueneis, Karl
Subject: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation
Attachments: City of Mississauga_Malton Flood Mitigation_Notice of PIC.pdf; Notice_of_Commencement_Malton_Flood_Mitigation.pdf; P123-0462-2020_23Dec2021_RE.pdf

Hello Abby,

As you may be aware, the City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area of Etude Drive to Justine Drive in the Malton community. I have attached the previous notifications that have been distributed to MCFN.

At this time we are reaching out to your community to:

1. Share the current draft Project File and address any concerns in advance of the public review period. Please see below for the link to download the draft Project File documentation, including the attached Stage 1 Archaeological Assessment Report. If you have any questions or comments about this study please let us know before **November 24, 2023**.

   Download link - Draft Project File

2. Confirm whether your community would like to participate in the Stage 2 archaeological assessment investigations. The City is planning to complete the Stage 2 work that will take place in the area of Derry Greenway park in November 2023 to meet their planned construction timelines. We understand that this is somewhat short notice, but we are hoping that you would have someone available to join our crew for the work.

   If you do wish to participate in the Stage 2 works (date to be confirmed), please let me know and send along your monitoring agreement by **November 2, 2023**.

We look forward to hearing back from you.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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AECOM

Six Nations of the Grand River

AECOM Imagine it. Delivered.

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Canada

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F: 905 578 4129
www.aecom.com

Chief Mark Hill
Six Nations of the Grand River
1695 Chiefswood Road, PO Box 5000
Ohsweken, ON N0A 1M0

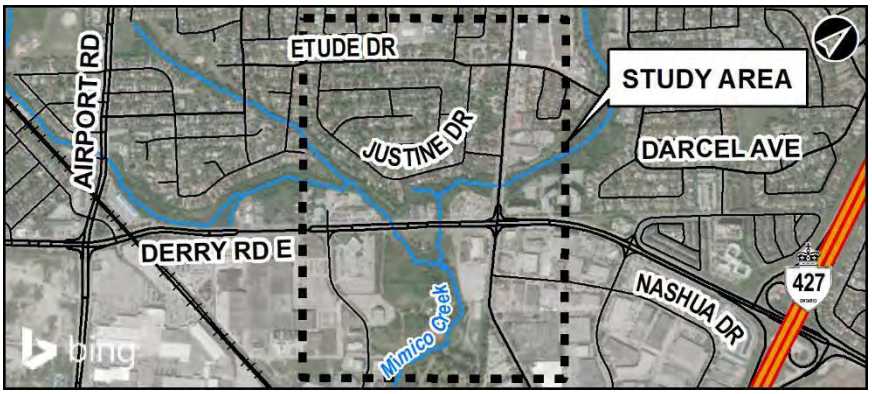
March 18, 2020

Project #
60620028

Dear Chief Mark Hill:

Subject: Malton Flood Mitigation Study – Etude Drive to Justine Drive, City of Mississauga
Municipal Class Environmental Assessment
PROJECT INTRODUCTION AND NOTICE OF STUDY COMMENCEMENT

The City of Mississauga (City) has initiated a Schedule B Municipal Class Environmental (Class EA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



The City has selected AECOM Canada Ltd. as the Consultant to carry out the Class EA and detailed design phases of the Project. This letter (and the attached Notice of Commencement) formalizes the onset of the study. The Class EA phase is anticipated to be completed in Fall 2020.

Work to be completed in support of the study includes the following:

- Flood modelling;
- Natural environment technical memorandum;
- Fluvial geomorphological assessment;
- Cultural heritage screening review;
- Stage 1 archaeological assessment;
- Tree inventory;
- Indigenous community engagement and consultation; and
- Public, agency and stakeholder consultation.

Potential Involvement of Your Community
As we proceed with the Class EA study, the Project Team is initiating the Indigenous Community engagement and consultation process. The Project Team would like to hear from the community of Six Nations of the Grand River and would welcome your inputs in determining the extent that your Community would like to be involved in

this process. Your input and feedback is important to us as we would like to know any issues or concerns your Community members may have.

As the study progresses, the Project Team will provide you with the results of analyses that may be of interest to your Community (e.g. environmental baseline studies, archaeological assessment, etc.).

Next Steps
We invite your Community to be involved in the engagement and consultation process. Kindly indicate whether your Community is interested in participating in our engagement activities by identifying your preferred key contact person and providing their contact information to one of our project team contacts listed below.

Should you have any questions, please do not hesitate to contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
201 City Centre Dr, Suite 800
Mississauga, ON L5B 2T4
(905) 615-3200, ext. 3491
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On behalf of the Project Team, thank you in advance for your interest and potential involvement in this study.

Sincerely,
AECOM Canada Ltd.

Karl Grueneis

Karl Grueneis
Senior Environmental Planner
Karl.Grueneis@aecom.com

Encl: Notice of Study Commencement
Cc: Lonny Bomberry, Lands and Resources Director, Six Nations of the Grand River
Fran Henry, Council Secretary, Six Nations of the Grand River

CITY OF MISSISSAUGA – NOTICE OF STUDY COMMENCEMENT

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

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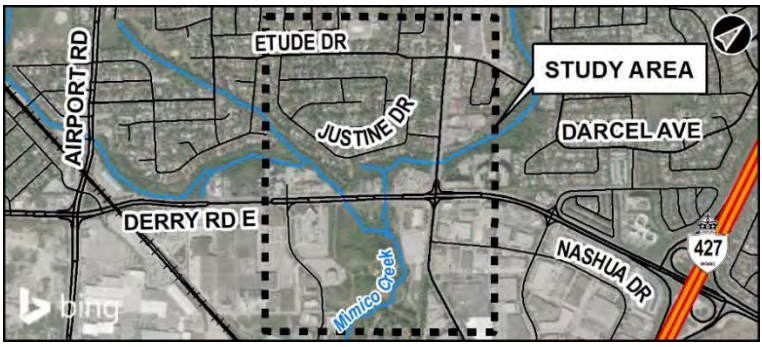

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- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

HOW?

- The Study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution that will be presented at a Public Information Centre.
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This notice was issued March,12, 2020

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Sent: Wednesday, June 14, 2023 2:53 PM
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Subject: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre
Attachments: City of Mississauga_Malton Flood Mitigation_Notice of PIC.pdf

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Thank you for your interest in this study.

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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45 Goderich Road, Suite 201
Hamilton, ON L8E 4W8, Canada
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aecom.com

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CITY OF MISSISSAUGA – NOTICE OF PUBLIC INFORMATION CENTRE

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

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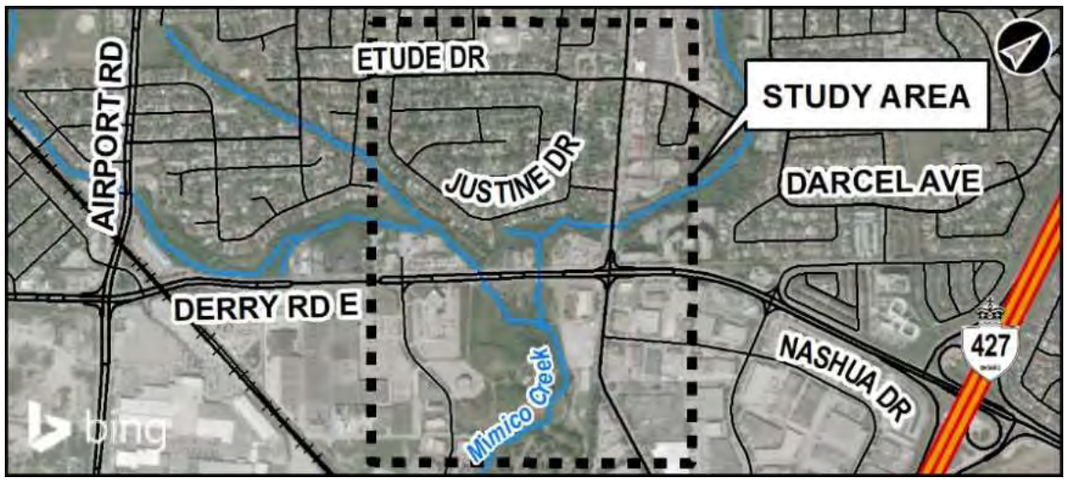

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Derek Gray, P.Eng., A.A.E
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This notice first issued on **June 14, 2023**.

From: Zandvliet, Samantha
Sent: Wednesday, October 25, 2023 5:18 PM
To: Mark B. Hill
Cc: Tanya Hill-Montour; lonnybomberry@sixnations.ca; Anthony DiGiandomenico; Gray, Derek; Grueneis, Karl
Subject: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation
Attachments: Notice_of_Commencement_Malton_Flood_Mitigation.pdf; City of Mississauga_Malton Flood Mitigation_Notice of PIC.pdf; P123-0462-2020_23Dec2021_RE.pdf

Hello Chief Mark B. Hill,

As you may be aware, the City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area of Etude Drive to Justine Drive in the Malton community. I have attached the previous notifications that have been distributed to SNGR.

At this time we are reaching out to your community to:

1. Share the current draft Project File and address any concerns in advance of the public review period. Please see below for the link to download the draft Project File documentation, including the attached Stage 1 Archaeological Assessment Report. If you have any questions or comments about this study please let us know before **November 24, 2023**.

   Download link - Draft Project File

2. Confirm whether your community would like to participate in the Stage 2 archaeological assessment investigations. The City is planning to complete the Stage 2 work that will take place in the area of Derry Greenway park in November 2023 to meet their planned construction timelines. We understand that this is somewhat short notice, but we are hoping that you would have someone available to join our crew for the work.

   If you do wish to participate in the Stage 2 works (date to be confirmed), please let me know and send along your monitoring agreement by **November 2, 2023**.

We look forward to hearing back from you.

Thank you,

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
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samantha.zandvliet@aecom.com

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AECOM

Haudenosaunee Development Institute

AECOM Imagine it. Delivered.

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Tracey General
Haudenosaunee Confederacy Chiefs Council
16 Sunrise Court, Suite 600
Ohsweken, ON N0A 1M0

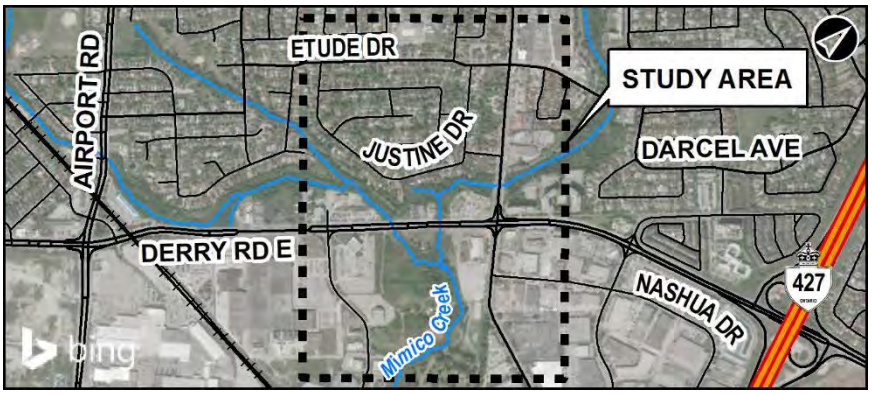
March 18, 2020

Project #
60620028

Dear Tracy General:

Subject: Malton Flood Mitigation Study – Etude Drive to Justine Drive, City of Mississauga
Municipal Class Environmental Assessment
PROJECT INTRODUCTION AND NOTICE OF STUDY COMMENCEMENT

The City of Mississauga (City) has initiated a Schedule B Municipal Class Environmental (Class EA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



The City has selected AECOM Canada Ltd. as the Consultant to carry out the Class EA and detailed design phases of the Project. This letter (and the attached Notice of Commencement) formalizes the onset of the study. The Class EA phase is anticipated to be completed in Fall 2020.

Work to be completed in support of the study includes the following:

- Flood modelling;
- Natural environment technical memorandum;
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- Cultural heritage screening review;
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- Tree inventory;
- Indigenous community engagement and consultation; and
- Public, agency and stakeholder consultation.

Potential Involvement of Your Community
As we proceed with the Class EA study, the Project Team is initiating the Indigenous Community engagement and consultation process. The Project Team would like to hear from the Haudenosaunee Confederacy Chiefs Council and would welcome your inputs in determining the extent that your Community would like to be involved

in this process. Your input and feedback is important to us as we would like to know any issues or concerns your Community members may have.

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Project Manager
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Sincerely,
AECOM Canada Ltd.

Karl Grueneis

Karl Grueneis
Senior Environmental Planner
Karl.Grueneis@aecom.com

Encl: Notice of Study Commencement

CITY OF MISSISSAUGA – NOTICE OF STUDY COMMENCEMENT

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

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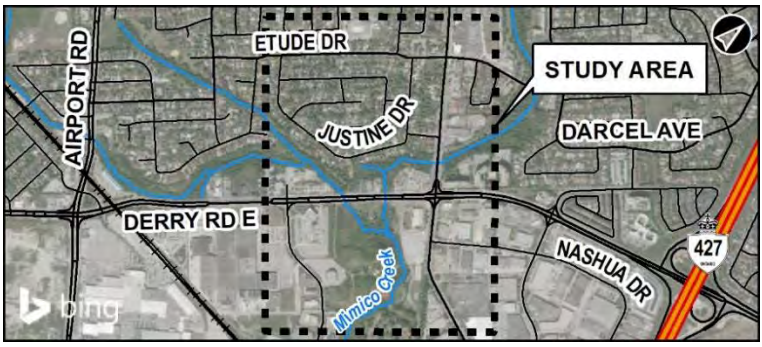

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derek.gray@aecom.com

This notice was issued March,12, 2020

This notice signals the commencement of the Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

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From: Zandvliet, Samantha
Sent: Wednesday, June 14, 2023 2:53 PM
Cc: Anthony DiGiandomenico; Gray, Derek
Subject: Malton Flood Mitigation Study MCEA - Notice of Public Information Centre
Attachments: City of Mississauga_Malton Flood Mitigation_Notice of PIC.pdf

Hello,

The City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.

A narrated Public Information Centre (PIC) presentation and comment form will be posted to the City's project webpage (www.mississauga.ca/malton-flood-mitigation) starting June 16, 2023 that presents the findings of this study, including the preliminary preferred solution. Please find attached the Notice of PIC for further information and how to provide feedback.

Thank you for your interest in this study.

Samantha Zandvliet
Environmental Planner, Impact Assessment and Permitting
M +1-437-428-7519
samantha.zandvliet@aecom.com

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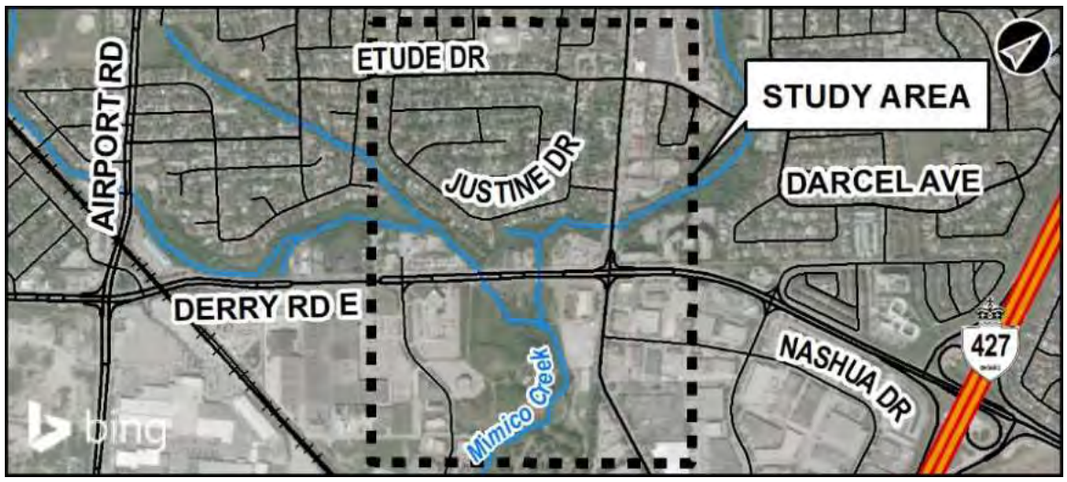
CITY OF MISSISSAUGA – NOTICE OF PUBLIC INFORMATION CENTRE

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

What?

- The City of Mississauga is undertaking a Schedule B Municipal Class Environmental Assessment (Class EA) Study to develop a flood mitigation plan for the general area between Etude Drive and Justine Drive in the Malton community.



Why?

- The purpose of the project is to mitigate urban flooding risks to people, property and infrastructure for the Etude Drive to Justine Drive area (see above map).

How?

- The Study will characterize and model the existing conditions of the area to propose mitigation measures and identify potential impacts.
- The Class EA process will involve identifying and evaluating various alternative solutions to help mitigate flooding, including the preferred solution.
- A Project File documenting the Class EA process will be available for public review at the end of the study.

Public Consultation

- The City would like anyone with an interest in the Study to have an opportunity to provide input and help inform the decision-making process.
- An online Public Information Centre (PIC) will be posted to the City's webpage starting June 16, 2023 to present the findings of the Class EA study. The PIC will be a narrated presentation that will review the study's purpose, work completed to date and present the alternatives, including the preliminary preferred solution.
- The PIC will also summarize the feedback received from residents, how impacts are being addressed, next steps and how to stay engaged. Feedback is encouraged and comments are requested by **July 19, 2023**.
- The PIC materials will be available on the project website: **www.mississauga.ca/malton-flood-mitigation**
- If you have comments or questions, require further information or would like to be added to the study mailing list to receive future notifications, please contact:

Anthony DiGiandomenico P.Eng.
Project Manager
City of Mississauga
300 City Centre Drive
Mississauga, ON L5B 3C1
(905) 615-3200, ext. 3491
anthony.digiandomenico@mississauga.ca

Derek Gray, P.Eng., A.A.E
Consultant Project Manager
AECOM Canada Ltd.
5080 Commerce Blvd
Mississauga, ON L4W 4P2
derek.gray@aecom.com

This notice signals the Notice of Public Information Centre for this Class EA, a study which will define the problem, identify/evaluate alternative solutions, and determine a preferred design in consultation with regulatory agencies and the public. The study is being undertaken in accordance with the planning and design process for Schedule 'B' projects, as outlined in the "Municipal Class Environmental Assessment" document (October 2000, amended in 2015), which is approved under the Ontario Environmental Assessment Act.

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This notice first issued on **June 14, 2023**.

From: Zandvliet, Samantha
Sent: Tuesday, November 7, 2023 4:22 PM
To: Todd Williams; Kearsley, Glenn
Cc: Grueneis, Karl; Gray, Derek; Anthony DiGiandomenico
Subject: RE: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation

Good afternoon Todd,

Thank you for reaching out. The assessment has not yet been completed. I have copied Glenn, the lead archaeologist on this project and he will let you know the date and further details once the fieldwork has been scheduled for later this month.

In the meantime, can you please send a copy of your monitoring agreement for the City to process?

Thank you,

Samantha Zandvliet
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From: Todd Williams <toddwilliams@hdi.land>
Sent: Monday, November 6, 2023 11:54 AM
To: Zandvliet, Samantha <Samantha.Zandvliet@aecom.com>
Subject: Fwd: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation

This Message Is From an External Sender

This message came from outside your organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Report Suspicious

Morning Samantha,

I just left you a voice message regarding this project and the Stage 2 arch assessment, HDI would like to participate.

Let me know if the assessment is complete or is still to be completed.

Thanks

Todd E. Williams, P.Eng

Monitoring Program Coordinator

Haudenosaunee Development Institute (HDI)

Haudenosaunee Confederacy Chiefs Council (HCCC)
Haudenosaunee 1755 Treaty Territory

O: 519-445-4222

M: 519-761-1794

https://www.haudenosauneeconfederacy.com/

https://www.haudenosauneeconfederacy.com/departments/haudenosaunee-development-institute/

---------- Forwarded message ---------
From: **Tracey General** <traceyghdi@gmail.com>
Date: Thu, Oct 26, 2023 at 6:10 AM
Subject: Fwd: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation
To: Brian Doolittle <ganowa@me.com>, Aaron Detlor <aarondetlor@gmail.com>, Todd Williams <toddwilliams@hdi.land>, Raechelle Williams <raechellewilliams@hdi.land>, Sharann Martin <sharannmartin@hdi.land>

Begin forwarded message:

From: "Zandvliet, Samantha" <Samantha.Zandvliet@aecom.com>
Subject: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation
Date: October 25, 2023 at 5:31:39 PM EDT
To: "info@hdi.land" <info@hdi.land>
Cc: Anthony DiGiandomenico <Anthony.DiGiandomenico@mississauga.ca>, "Gray, Derek" <Derek.Gray@aecom.com>, "Grueneis, Karl" <Karl.Grueneis@aecom.com>

Hello,

As you may be aware, the City of Mississauga is currently completing a Schedule B Municipal Class Environmental Assessment (MCEA) study to develop a flood mitigation plan for the general area of Etude Drive to Justine Drive in the Malton community. I have attached the previous notifications that have been distributed to the Haudenosaunee Development Institute (HDI). We understand that the Haudenosaunee Confederacy Chiefs Council (HCCC) has vested the HDI with the authority to represent

the Haudenosaunee on matters relating to land development, and as such, it is important that we ensure HDI has opportunities for participation and engagement through the MCEA planning process.

At this time we are reaching out to HDI to:

1. Share the current draft Project File and address any concerns HDI may have regarding this study. Please see below for the link to download the draft Project File documentation, including the attached Stage 1 Archaeological Assessment Report. If you have any questions, comments or require further information about this study please let our study team know before **November 24, 2023**.

   Download link - Draft Project File

2. Confirm whether your community would like to participate in the Stage 2 archaeological assessment investigations. The City is planning to complete the Stage 2 work that will take place in the area of Derry Greenway park in November 2023 to meet their planned construction timelines. We understand that this is somewhat short notice, but we are hoping that you would have someone available to join our crew for the work.

   If you do wish to participate in the Stage 2 works (date to be confirmed), please let me know and send along your monitoring agreement by **November 2, 2023**.

We look forward to hearing back from you.

Thank you,

Samantha Zandvliet
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samantha.zandvliet@aecom.com

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Huron-Wendat Nation

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CITY OF MISSISSAUGA – NOTICE OF PUBLIC INFORMATION CENTRE

Municipal Class Environmental Assessment Study: Malton Flood Mitigation Study – Etude Drive to Justine Drive

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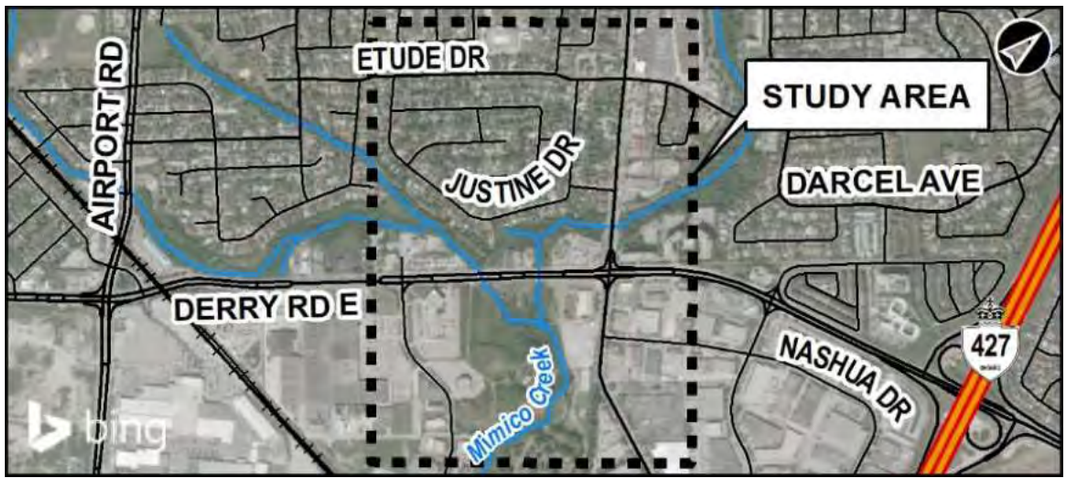

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(905) 615-3200, ext. 3491
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This notice first issued on **June 14, 2023**.

From: Zandvliet, Samantha
Sent: Wednesday, October 25, 2023 4:56 PM
To: Lori-Jeanne.Bolduc@wendake.ca; consultations
Cc: Anthony DiGiandomenico; Gray, Derek; Grueneis, Karl
Subject: Malton Flood Mitigation Study MCEA - Draft Project File and Stage 2 AA participation
Attachments: City of Mississauga_Malton Flood Mitigation_Notice of PIC.pdf; Notice_of_Commencement_Malton_Flood_Mitigation.pdf; P123-0462-2020_23Dec2021_RE.pdf

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At this time we are reaching out to your community to:

1. Share the current draft Project File and address any concerns in advance of the public review period. Please see below for the link to download the draft Project File documentation, including the attached Stage 1 Archaeological Assessment Report. If you have any questions or comments about this study please let us know before **November 24, 2023**.

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