

Lakewood Beach

Wainfleet, Ontario

Tree Assessment Survey & Preservation Plan

Prepared for
Quartek Group Inc.
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St. Catharines, ON L2R 3M3



Platanus x acerifolia (London Plane Tree)

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2014 01 14 – Revised 2015 08 24 & 2016 11 04

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1.0 Summary

Lakewood Beach, the site of the former Easter Seal's Camp, was opened in 1954 and successfully operated a program for children with physical disabilities for over 50 years. The camp closed its operation in 2005 and a forty one (41) unit housing development has been proposed for the property. As part of the planning approval process, a Tree Assessment/Preservation Plan has been prepared. Some of the major findings and observations are as noted below.

A tree assessment survey was conducted and no rare or endangered trees were found on the property. It appears that almost all of the trees, the most dominant living elements on earth, were planted several years ago. Several successional *Fraxinus* (Ash) trees were also found on the site. Today many of these trees require pruning primarily for safety reasons. The results of the survey indicate that there are very few interesting ornamental trees found on the property. Accordingly, there is a distinct need to introduce more indigenous trees and a few exotic plants for functional and aesthetic reasons. These trees should be complimentary to the vegetation already found within this ecosystem.

Almost all of the trees identified on the site are comparatively short lived including *Populus x canadensis* (Carolina poplar), *Acer saccharinum* (Silver Maple), and *Salix babylonica* (Weeping willow). Several native *Pinus strobus* (Eastern White Pine) trees were also found on the property. All of these trees were for the most part in excellent condition. A limited number of exotic trees were found on the site including *Tilia cordata* (Littleleaf Linden) and *Platanus x acerifolia* (London Planetree). In addition to these non-native trees, *Ulmus chinensis* (Chinese Elm) and *Acer platanoides* (Norway Maple) were located on the property. These plants because of their propensity to spread at the expense of the ecosystem should be removed as cited in this report. Several successional trees were also identified on site including *Fraxinus* sp. (either white, red or green ash). However, the susceptibility of this plant to the Emerald Ash Borer means a vigorous tree planting program is required in order to maintain the aesthetic quality of the site in the long term.

Protection and preservation measures should be practiced within the Fowler's Toad Habitat to preserve the beach and its headlands from water as well as wind erosion. In

order to save this unique and special land use, it's important to remove all the non-native herbaceous plants, trees, shrubs and undesirable grasses that are located south of the Fowler's Toad Habitat line of preservation that was identified by the Ministry of Natural Resources in 2013.

The revised report dated 2016 11 04 by John A. Morley and Associates, takes into consideration the preservation of the Fowler's Toad within the Fowler's Toad Habitat. Within this area, selective removal of several trees has been recommended in this report in order to maintain/ improve upon the toad habitat.

It is important to note that at the south east end of the proposed development, all trees located within the Fowler's Toad Habitat are scheduled for removal. These include several Carolina Poplar trees on the south side of the primary dune closest to the lake as well as several sizable Silver Maple trees that are located north of the "Limit of Development" line identified by the Ministry of Natural Resources.

At the west end of the property, it is not deemed necessary to remove any trees at this time other than a few *Acer platanoides* (Norway Maple) trees and a few *Acer negundo* (Manitoba Maple) trees. Both trees are considered to be "weedy" trees and worthy of removal. This report recommends selective removal of trees to facilitate the placement of buildings, driveways, and roads on the property.

Every effort has been made to not only locate all the 247 trees on the property but also to accurately identify the health and condition of each plant. It's also important to note that the tree identification was done by means of winter wood, terminal buds, remnant leaves, and general tree form.

It is important to note that the best management practices for tree preservation be rigorously followed within the area of construction. These practices are succinctly identified by Dillon Consulting Limited in their report entitled "Lakewood Beach Properties Ltd., *Updated Scoped Environmental Impact Study*, Lakewood Beach Properties" in April 2016, pgs. 16-21.

2.0 Introduction

Lakewood Beach, a half mile stretch of magnificent sand, is located along the shoreline of Lake Erie within the municipal jurisdiction of Wainfleet. It's a south facing beach and it is one, if not the only truly outstanding waterfront beach that still exists within the Region of Niagara.

To maintain the current attractiveness of the property as well as to not only preserve but to also enhance the Fowler's Toad habitat, the client is committed to adhering to the recommendations and guidelines of Permit #: GU-C-007-13 as issued under clause 17(2) (c) of THE ENDANGERED SPECIES ACT, 2007. This includes all reporting procedures to MNRF, site construction activities, inspection procedures by MNRF staff and others throughout the duration of the project.

A cursory look at the property indicates that the site has been left to renaturalize since the Easter Seals Camp was closed several years ago. A tree replacement planting program will be initiated to offset any tree that need to be removed for the construction of the roadway as well as the actual dwelling units and services. The landscape planting plan will maintain and improve upon the current attractiveness of the site.

It is important to point out that drainage is a very significant issue on this site. Much of the site north of the tree line of mature *Salix x babylonica* (Weeping willow) is poorly drained and will only support trees that like 'wet feet'. The *Acer saccharinum* (Silver Maple) has successfully established itself in this environment as it does prefer a moist growing environment.

3.0 Scope of Work

An initial meeting was held with the client on October 30th 2013. This get-together highlighted the importance of a tree survey to facilitate the preparation of a landscape plan for the proposed development within the Municipality of Wainfleet.

Following approval by Quartek as well as the client to proceed with the preparation of a Tree Assessment Survey/Preservation Plan for Lakewood Beach in December of 2013, John A. Morley and Associates was authorized to conduct an analysis of all the trees on the property. A preliminary tree assessment was started on site on December 5th, 2013. A second site visit was necessary on December 7th, 2013 in order to complete the survey. It should be pointed out that ten to fifteen percent of the aluminium plant labels were missing. Also, it's important to note that a few labels had been vandalized and a limited number of trees on the map were incorrectly shown as deciduous trees when they were in fact coniferous plants.

Every effort was made to accurately pin point each tree according to the tree survey plan. Because of the number of trees found on this property, and the fact that several of the previously surveyed trees had been removed/not located on the original plan, it was difficult to accurately locate a few of the trees shown on the survey plan. Such was the case with the inability to locate trees 1 to tree 3 on tree site/ survey map.

A total of 247 trees were assessed and botanically identified by John A. Morley to identify the general health and condition of all the existing trees on the property as well as to provide recommendations on which trees should be removed/retained.

Following the above assessment, John A Morley and Associates was retained by Lakewood Beach Properties Limited and Quartek Group Inc. to review and / or revise the Morley Report to reflect the revised proposed site development. John A Morley was also requested to update the Landscape Planting Plan as necessary.

Finally, under Scope of Work and as part of the 2015 11 09 update, John A. Morley and Associates has expanded upon the survey and assessment of trees at both ends of the property along the primary dunes as described below.

In addition to the 247 trees that were assessed in this study, it's important to note that at the south east end of the site from units 26 to 36 inclusive, there are several additional trees that need to be removed to facilitate and preserve the unique ecosystem of the Fowler's Toad. For the most part, these trees consist of sizable Silver Maples (*Acer saccharinum*) that are located on the primary dune and within the Folwer's Toad habitat. In addition to the above trees, successional *Ulmus parvifolia* (Chinese Elm), *Fraxinus* sp. (Ash), one *Pyrus* (Pear), one *Morus alba* (White Mulberry), and several *Populus x canadensis* (Carolina Poplar) trees were found at this end of the property. None of these trees were located in site survey information originally provided at the initiation of the assessment.

In addition to these trees, *Rhus typhina* (Common Sumac), *Lonicera* (Honeysuckle), and numerous *Vitis* sp. (Wild Grape) were located and botanically identified. All of this vegetation for the most part is located within the Fowler's Toad Habitat with the exception of numerous *Fraxinus* sp. (Ash) trees that are located south of the above area. In the south west corner of the property in the Common Element area, several *Acer platanoides* (Norway Maple) and a few sizable *Salix* sp. (Willow) trees, a small *Tilia* (Basswood) tree, and several *Acer negundo* (Manitoba Maple) were found. As all of this plant material is located within the Fowler's Toad Habitat, all of these trees will need to be removed to provide an improved environment for the preservation of the Fowler's Toad. It's important to note that none of these trees were included on the survey information provided at the initiation of the assessment and therefore have not been included on the attached maps.

4.0 General Observations / Tree Removal by Area

A total of 247 trees were assessed as shown on the accompanying map. Of this total, 77% of the trees surveyed were indigenous trees. The pie chart shows a comparative percentage breakdown of the various trees surveyed on this site.

Some of the coniferous trees have had many of their lower branches removed. Where this has happened, this practice has forever ruined the appearance of these trees.

There are no rare or endangered trees on the property.

It's also important to highlight once again that none of the trees found on the property should be considered as indispensable. The selective removal of a few additional plants that may need to be removed to facilitate the recommended development should only be considered with the approval of the Landscape Architect, the Project Manager, a representative from the Township of Wainfleet, the NPCA, and the owner.

It should also be pointed out that all trees/shrubs within the existing or proposed drainage ditches will be removed to facilitate and improve upon the efficient removal of excess water from the site. For the most part, a limited number of Willow (Salix), Pear (Pyrus), Junipers (Juniperus), and Cornus (Dogwood) will be removed from the existing and proposed drainage ditches.

Once development occurs, an improved arboricultural maintenance program will be necessary to maintain the attractiveness of the site.

The following summary by area highlights the trees that need to be removed based on the proposed site plan. The trees are being recommended for removal in order to improve upon the habitat of the Fowler's Toad, and to accommodate the placement of proposed buildings on the site, as well as the construction of the roadway and swales.

A. Entrance Roadway off Lakeshore Road

T64 – 66, 71 – T73	Carolina Poplar. This species is short lived and messy.
T54, 56, 74, 77, 78	Silver Maple is a short lived, messy, and high maintenance tree.

Trees located within entrance roadway off Lakeshore Road.

B. East / West Roadway

T44, 45, 126 – 129, 137, 146, 156, 157	Weeping Willow trees are messy, short lived and are of limited ornamental value
T138, 155, 174	Acer rubrum (Red Maple); these 3 could be spaded from current to alternative locations.
T46, 47, 169, 171, 173, 239	Fraxinus sp. (Ash) local presence of Emerald Ash Borer does not warrant preservation.
T98	Norway Maple. An invasive, non-native tree.
T108	Austrian Pine. Non-native tree. Susceptible to Diplodea Blight.
T170, 172	Eastern White Pine. Excellent native conifer. Remove to facilitate construction of roadway.
T168	London Planetree. Despite its good condition rating, tree needs to be removed to facilitate construction of roadway. Non-native.
T107	Carolina Poplar. A fast growing, short lived, and messy tree.
T53, 106, 147, 175	Silver Maple is a short lived, messy, and high maintenance tree.

Fowler's Toad Habitat

T10 – 20	Chinese Elm.
T21	Weeping Willow
T04 – 09, 25 – 29, 31, 43, 101-103, 149, 181, 186, 194 – 197	Silver Maple
T32	Norway Maple
T150, 187	London Planetree
T33, 184, 185, 188 – 192	Fraxinus sp. (Ash)
T241, 242	Juniperus sp.
T243 – 245	White Pine
T246, 247	White Spruce

All of the above trees need to be removed in the area south of the Fowler's Toad habitat line established by the Ministry of Natural Resources.

C. Trees Deleted by Building

T109 – 111	Carolina Poplar
T30, 101 – 103, 105, 130, 134, 140 – 143, 149, 163 – 165, 180, 193, 217 – 219, 222 – 225	Silver Maple
T37, 48, 49, 153, 183	Fraxinus sp. (Ash)
T150, 178	London Planetree
T162	Weeping Willow
T167	White Pine
T182	Little Leaf Linden

All of the above trees should be removed to facilitate the placement of the house on the individual building lots or the water treatment plant. Ornamentally none of these trees are of significant value and practically speaking, each has their negatives.

Other Trees to be Removed

T55, 57 – 63, 67 – 70, 79 – 84, 86, 112	Carolina Poplar
T123, 124, 158, 160	Weeping Willow
T75, 76, 94, 229	Silver Maple
T89, 92, 95	Norway Maple
T96	London Planetree
T33, 184, 185, 188 – 192	Fraxinus sp. (Ash)
T40 – 42	Juniperus sp.
T220, 221	Norway Spruce
T91, 97	Paper Birch
T237	White Spruce

All of the above trees should be removed due to the poor health of the specimen. These trees hold no ornamental value and pose a future safety risk.

5.0 Recommendations

- a. All trees recommended for removal in the Tree Assessment/Preservation Plan Report completed by John A. Morley and Associates should be removed for safety reasons, for the preservation of the Fowler's Toad, for the construction of the roadway, as well as the placement of the buildings on the site.

Trees proposed for removal have been marked with an "X" through the centre of each trees on the site survey plan. Prior to removing any trees, a site meeting should be held with the Landscape Architect and other individuals involved in the preservation of the Fowler's Toad. This meeting should be able to address the clearing of invasive and non-native herbaceous plants, grasses and shrubs.

- b. A Landscape Planting Plan will be prepared by John A Morley and Associates to provide some long term botanical and aesthetic interest to the property. This plan should include but not be limited to an enhanced entry statement off of Lakeshore Road, the layout of roads and parkettes, recreational amenities, and other related site improvements that would assist in maintaining this facility an attractive location for the property owners while preserving the Fowler's Toad. As part of the Landscape Planting Plan, relevant details should be provided for the preservation and planting of trees, shrubs, and perennials.
- c. The Landscape Plan should consider the existence of the trees as a natural resource and also consider underground servicing, road, re-grading and site-contouring where required, and the actual placement of the dwelling units and all proposed building elements.

For all the trees that are recommended for removal, twice the number of replacement trees will be planted on-site and an on-going tree replacement program be initiated to maintain the integrity of the landscape.

6.0 Tree Preservation

Preservation of the trees cited in this report should be consistent with the Tree Preservation Notes that form part of the Landscape Planting Plan

This should include but not be limited to root cutting, the storage of materials including fill within the root zone of trees recommended for preservation, as well as the indiscriminate, non-regulated movement of vehicles on the site during construction.

7.0 Tree Protection Barriers

Tree protection barriers should be 1.2 m (4ft) high and be either orange/green plastic web or wooden snow fencing. Tree protection fencing should be off-set from the calculated root zone by 1 m.

8.0 Arboriculture Work

All tree removal work will be done by experienced, certified, and properly trained personnel.

9.0 Terms

Key: Refers to the number assigned to the tree as per the accompanying drawing.

Botanical name: Genus and species of plant identified using Manual of Woody Landscape Plants, M.A. Dirr as reference

Common name: Name assigned to plant using Manual of Woody Landscape Plants, M.A. Dirr as reference

Size/General Health: Observational measurement made by qualified Landscape Architect/ Horticulturalist at time of inspection. Vigour, twig elongation, bud development, foliar colour, and general appearance for species used to develop a qualitative figure.

Structure: Observational measurement made by a qualified Landscape Architect at time of inspection. Signs of decay, poor structural habit, problem branches, hangers, soil disturbance, weak unions, etc. used to assign a qualitative figure.

DBH: Diameter Breast Height (4'6"). Industry recognized standard for measurement of trees exceeding 4" calliper at 6" above soil level.

Poor: Qualitative measure assigned by a qualified Landscape Architect or Arborist for the overall condition and health of a tree.

Moderate: Qualitative measure assigned by a qualified Landscape Architect or Arborist for the overall condition and health of a tree.

Good: Qualitative measure assigned by a qualified Landscape Architect or Arborist for the overall condition and health of a tree.

Very good: Qualitative measure assigned by a qualified Landscape Architect or Arborist for the overall condition and health of a tree.

Excellent: Qualitative measure assigned by a qualified Landscape Architect or Arborist for the overall condition and health of a tree.

Deadwood: Deadwood larger than 1.5" which would pose a risk due to falling.

Calliper: Refers to measurement taken 6” above soil level for trees equal to or less than 4” in diameter, or when an accurate measurement cannot be obtained at 4’ 6” due to multiple stems or trunk measurements.

10.0 Arboriculture Experience

(See following page)

JOHN A. MORLEY AND ASSOCIATES

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2014 01 14

ARBORICULTURE WORK EXPERIENCE SUMMARY

- graduate Niagara Parks Commission School of Horticulture(Arboriculture internship-with NPC forestry crew)
- recipient Botany Medal-highest standing in Plant Identification and Botany during three year program at NPC School of Horticulture
- BSc and MSc in Park Administration/Landscape Architecture (Texas Tech University).
- Set up two year program in Ornamental Horticulture at the Nova Scotia Agricultural College; Arboriculture key component of course (practical training/theory).
- organized several two week long Arboriculture Short Courses for employees of the Nova Scotia Power Corporation on all aspects of Arboriculture.
- Director of Horticulture-Niagara Parks Commission 1984-1998.
- Responsible for all arboricultural activities of the NPC for all parklands exceeding 3500 acres, wood lots, golf courses, and specialized areas of open space along the world-famous Niagara Parkway.
- Corporate member of the International Society of Arboriculture 1984-1998.
- Prepared several arboricultural reports on tree preservation plans for the City of Niagara Falls/Town of Niagara-on-the-Lake.
- Conducted Urban Arboriculture Report (Phase 1) for the Region of Niagara for Glendale Avenue in St. Catharines.
- Prepared arboriculture reports for Hynde-Paul & Associates (Quartek) in the past for several major estate properties in Niagara-on-the-Lake including Randwood.

I have close to 50 years of progressively responsible experience in all aspects of horticulture, arboriculture, parks planning and landscape architecture. I have specific practical training in Arboriculture and have taught courses for several years at both the Nova Scotia Agricultural College in Truro, NS as well as at the Nova Scotia College of Art and Design in Halifax, NS. In the past, I have prepared Arboriculture Reports for site developments throughout the Niagara Peninsula, conducted tree appraisals for insurance claims, and conducted studies on specific urban forestry issues including health and tree care issues.

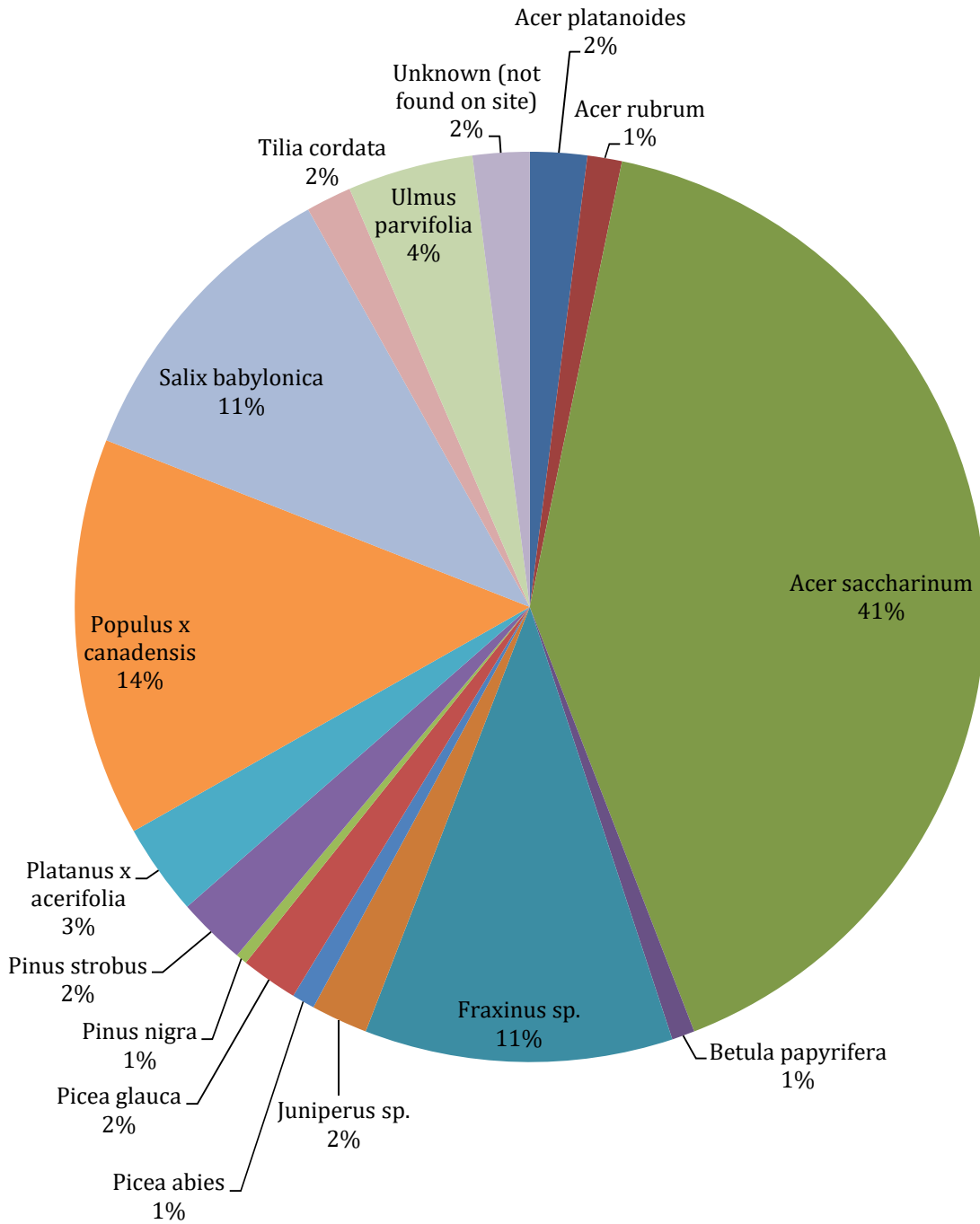


John A. Morley

11.0 Tree Assessment/Plant Numbers

Botanic Name	Number
Acer platanoides	5
Acer rubrum	3
Acer saccharinum	101
Betula papyrifera	2
Fraxinus sp.	27
Juniperus sp.	5
Picea abies	2
Picea glauca	5
Pinus nigra	1
Pinus strobus	6
Platanus x acerifolia	8
Populus x canadensis	35
Salix babylonica	27
Tilia cordata	4
Ulmus parvifolia	11
Unknown (not found on site)	5
Grand Total	247

Tree Percentages:



12.0 Tree Assessment Survey

Latin	Common	Information	Recommendation
T1 – T3:			
unable to locate on site survey			
4. <i>Acer saccharinum</i>	Silver maple	47" DBH Triple trunk, asymmetrical crown, fair trunk, hangers present, located within 'Fowler's Toad Habitat' ** (See note)	Remove
5. <i>Acer saccharinum</i>	Silver maple	28" DBH Poor crown form, high crown mortality, wildlife cavity with fungi cork at 3m., located within 'Fowler's Toad Habitat' ** (See note)	Remove
6. <i>Acer saccharinum</i>	Silver maple	44" DBH Some corrective pruning required in canopy Hangers present, located within 'Fowler's Toad Habitat'	Remove
7. <i>Acer saccharinum</i>	Silver maple	24" DBH Trunk canopy 7' Poor condition, located within 'Fowler's Toad Habitat'	Remove
8. <i>Acer saccharinum</i>	Silver maple	16" and 14" DBH Double trunk at 1m Poor condition Some pruning required in crown, located within 'Fowler's Toad Habitat'	Remove
9. <i>Acer saccharinum</i>	Silver maple	36" DBH Good condition, located within 'Fowler's Toad Habitat'	Remove
10. <i>Ulmus parvifolia</i>	Chinese elm	10" DBH Located within 'Fowler's Toad Habitat'	Remove
11. <i>Ulmus parvifolia</i>	Chinese elm	11" DBH Pruning required in canopy, located within 'Fowler's Toad Habitat'	Remove
12. <i>Ulmus parvifolia</i>	Chinese elm	7.5" DBH Some pruning Good condition, located within 'Fowler's Toad Habitat'	Remove
13. <i>Ulmus parvifolia</i>	Chinese elm	Located within 'Fowler's Toad Habitat'	Remove
14. <i>Ulmus parvifolia</i>	Chinese elm	Located within 'Fowler's Toad Habitat'	Remove
15. <i>Ulmus parvifolia</i>	Chinese elm	Located within 'Fowler's Toad Habitat'	Remove
16. <i>Ulmus parvifolia</i>	Chinese elm	Located within 'Fowler's Toad Habitat'	Remove
17. <i>Ulmus parvifolia</i>	Chinese elm	Located within 'Fowler's Toad Habitat'	Remove
18. <i>Ulmus parvifolia</i>	Chinese elm	Located within 'Fowler's Toad Habitat'	Remove
19. <i>Ulmus parvifolia</i>	Chinese elm	7.5" DBH Located within 'Fowler's Toad Habitat'	Remove
20. <i>Ulmus parvifolia</i>	Chinese elm	Grapevines in canopy, located within 'Fowler's Toad Habitat'	Remove

** Ferris + Associates Inc. 2011. Arborist Report. Prepared for Lakewood Beach Community, Wainfleet, Ontario

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Latin	Common	Information	Recommendation
21. Salix babylonica	Weeping willow	8" DBH Assorted growth surrounding tree Moderate condition, located within 'Fowler's Toad Habitat'	Remove
22. Acer saccharinum	Silver maple	24" DBH Minor pruning required Good condition	Preserve
23. Acer saccharinum	Silver maple	20" DBH Good condition	Preserve
24. Acer saccharinum	Silver maple	36" DBH Multiple trunked Good specimen Some pruning required Hangers present	Preserve
25. Acer saccharinum	Silver maple	46" DBH Good to very good condition, located within 'Fowler's Toad Habitat'	Remove
26. Acer saccharinum	Silver maple	46" DBH Hangers Some corrective pruning required Good condition Multiple trunk at 1.2 M, located within 'Fowler's Toad Habitat'	Remove
27. Acer saccharinum	Silver maple	36" DBH Very good condition, located within 'Fowler's Toad Habitat'	Remove
28. Acer saccharinum	Silver maple	34" DBH Triple branch at 1.8 m Good condition, located within 'Fowler's Toad Habitat'	Remove
29. Acer saccharinum	Silver maple	30" DBH Good condition, located within 'Fowler's Toad Habitat'	Remove
30. Acer saccharinum	Silver maple	24" and 19" DBH Double branched at 1m Moderate to good, located within building envelope	Remove
31. Acer saccharinum	Silver maple	19" DBH Double trunk of 1 m Good condition, located within 'Fowler's Toad Habitat'	Remove
32. Acer platanoides	Norway maple	20" DBH Corrective pruning required Hangers Good condition, located within 'Fowler's Toad Habitat'	Remove
33. Fraxinus sp.	White/Green ash	Multiple trunks - 7 trunks, assorted sizes, located within 'Fowler's Toad Habitat'	Remove
34. Unable to locate tree	n/a		Remove
35. Acer saccharinum	Silver maple	28" DBH Good condition	Preserve
36. Acer saccharinum	Silver maple	36" DBH Some dead wood removal necessary Good condition; "No Trespassing Sign"	Preserve
37. Fraxinus sp.	White/Green ash	18" DBH Corrective pruning required	Remove

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Latin	Common	Information	Recommendation
38. <i>Acer saccharinum</i>	Silver maple	30" DBH Moderate to good	Preserve
39. <i>Acer saccharinum</i>	Silver maple	30" DBH	Preserve
40. <i>Juniperus</i> sp.	Juniper	5" – 8" DBH Limbed up Poor	Remove
41. <i>Juniperus</i> sp.	Juniper	5" – 8" DBH Limbed up	Remove
42. <i>Juniperus</i> sp.	Juniper	5" – 8" DBH Limbed up	Remove
43. <i>Acer saccharinum</i>	Silver maple	20" DBH Some pruning required in canopy Hangers Good condition	Preserve
44. <i>Salix babylonica</i>	Weeping willow	46" DBH Major hangers in canopy; located on edge of road pavement	Remove
45. <i>Salix babylonica</i>	Weeping willow	44" DBH Good condition; located on edge of road pavement	Remove
46. <i>Fraxinus</i> sp.	White/Green ash	3" DBH Good condition; susceptible to Emerald Ash Borer Located within road allowance	Remove
47. <i>Fraxinus</i> sp.	White/Green ash	Trunk damage Located within road allowance	Remove
48. <i>Fraxinus</i> sp.	White/Green ash	5" DBH Remove side limb at base Growing in wet to moist conditions Poor to moderate; located within building envelope	Remove
49. <i>Fraxinus</i> sp.	White/Green ash	4" DBH Covered with grapevine Growing in wet to moist conditions; located within building envelope	Remove
50. <i>Fraxinus</i> sp.	White/Green ash	2" to 5" DBH Growing in wet to moist conditions Successional tree	Preserve
51. <i>Fraxinus</i> sp.	White/Green ash	5" DBH Growing in wet to moist conditions Moderate	Preserve
52. <i>Fraxinus</i> sp.	White/Green ash	5" DBH Growing in wet to moist conditions Moderate to good	Preserve
53. <i>Acer saccharinum</i>	Silver maple	36" DBH Stub removal Very good condition; located at edge of proposed pavement within road allowance	Remove
54. <i>Acer saccharinum</i>	Silver maple	Double trunk at 3' Moderate to good condition; located within road allowance	Remove
55. <i>Populus x canadensis</i>	Carolina poplar	20" DBH dead	Remove

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56. Acer saccharinum	Silver maple	20" DBH Some hangers Moderate condition; located within road allowance	Remove
57. Populus x canadensis	Carolina poplar	22" DBH Some deadwood in crown	Remove
58. Populus x canadensis	Carolina poplar	20" DBH Mature Significant deadwood in canopy	Remove
59. Populus x canadensis	Carolina poplar	22" DBH Dead	Remove
60. Populus x canadensis	Carolina poplar	Significant dead wood	Remove
61. Populus x canadensis	Carolina poplar	Significant dead wood	Remove
62. Populus x canadensis	Carolina poplar	22" DBH Deadwood	Remove
63. Populus x canadensis	Carolina poplar	22" DBH Significant deadwood	Remove
64. Populus x canadensis	Carolina poplar	20" DBH Some pruning in crown required Mature Remove to facilitate entrance roadway off Lakeshore Road	Remove
65. Populus x canadensis	Carolina poplar	20" DBH Some pruning in crown required Mature Remove to facilitate entrance roadway off Lakeshore Road	Remove
66. Populus x canadensis	Carolina poplar	21" DBH Hangers in crown Mature Remove to facilitate entrance roadway off Lakeshore Road	Remove
67. Populus x canadensis	Carolina poplar	20" DBH Significant die back	Remove
68. Populus x canadensis	Carolina poplar	22" DBH Mature specimen Moderate condition Pruning required	Remove
69. Populus x canadensis	Carolina poplar	18" DBH Significant dead wood	Remove
70. Populus x canadensis	Carolina poplar	18" DBH Pruning required Poor to moderate condition	Remove
71. Populus x canadensis	Carolina poplar	18" DBH Numerous dead wood in crown	Remove
72. Populus x canadensis	Carolina poplar	20" DBH Some deadwood present Poor to moderate condition Some pruning required	Remove

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Latin	Common	Information	Recommendation
73. Populus x canadensis	Carolina poplar	20" DBH Good to moderate condition	Remove
74. Acer saccharinum	Silver maple	Double trunked about 4" Main trunk 18" Poor condition Hangers present; located within road allowance	Remove
75. Acer saccharinum	Silver maple	2 trunks about 30" 1 trunk is 15", 2nd is 15" Poor condition	Remove
76. Acer saccharinum	Silver maple	14" DBH Double branched at 11' Poor condition	Remove
77. Acer saccharinum	Silver maple	11" DBH Good specimen Located within entrance roadway off Lakeshore Road	Remove
78. Acer saccharinum	Silver maple	8" DBH, Double trunk at 1m Remedial arboriculture work required Poor to moderate Located within entrance roadway off Lakeshore Road	Remove
79. Populus x canadensis	Carolina poplar	Remove to facilitate replacement of a better ornamental tree	Remove
80. Populus x canadensis	Carolina poplar	22" DBH Mature Significant deadwood in crown	Remove
81. Populus x canadensis	Carolina poplar	22" DBH 2 major trunks at 6.5': 12", 15" Moderate to poor condition	Remove
82. Populus x canadensis	Carolina poplar	18" DBH Dead	Remove
83. Populus x canadensis	Carolina poplar	18" DBH Dead	Already Removed
84. Populus x canadensis	Carolina poplar	18" DBH Significant deadwood in crown Remove	Remove
85. Populus x canadensis	Carolina poplar	18" DBH Mature Moderate to good condition	Preserve
86. Populus x canadensis	Carolina poplar	22" DBH Numerous deadwood in crown	Remove
87. Populus x canadensis	Carolina poplar	17" DBH Good specimen for species Minor pruning required	Preserve
88. Populus canadensis	Carolina poplar	24" DBH Good condition	Preserve
89. Acer platanoides	Norway maple	6" DBH Poor condition	Remove
90. Platanus x acerifolia	London planetree	12" DBH Some hangers present Poor to moderate condition	Preserve
91. Betula papyrifera	Paper birch	Poor condition	Remove

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Latin	Common	Information	Recommendation
92. Acer platanoides	Norway maple		Remove
93. Platanus x acerifolia	London planetree	12" DBH Some hangers Poor to moderate	Preserve
94. Acer saccharinum	Silver maple	8" DBH Poor condition	Remove
95. Acer platanoides	Norway maple	7" DBH Some hangers	Remove
96. Platanus x acerifolia	London planetree	12" DBH Some hangers Poor to moderate condition Trunk cavities at 8'	Remove
97. Betula papyrifera	Paper birch	7" DBH Poor condition	Remove
98. Acer platanoides	Norway maple	6" DBH Poor; located within road allowance	Remove
99. Acer saccharinum	Silver maple	26" DBH Minor pruning required in canopy A couple hangers Good condition	Preserve
100. Acer saccharinum	Silver maple	Multiple trunk at 1.5 m Moderate condition Some pruning required	Preserve
101. Acer saccharinum	Silver maple	32" DBH Pruning required in canopy Moderate to good condition; located within building envelope	Remove
102. Acer saccharinum	Silver maple	10" DBH Pruning required Crown is one-sided; located within building envelope	Remove
103. Acer saccharinum	Silver maple	27" DBH Hangers in crown, Pruning required Good to very good condition; damaged by building fire; extensive damage to crown, burned/vandalism	Already Removed
104. Acer saccharinum	Silver maple	18" DBH Some pruning Moderate to good condition	Preserve
105. Acer saccharinum	Silver maple	24" DBH Problematic for construction of driveway	Remove
106. Acer saccharinum	Silver maple	34" DBH Double trunked at 1.8m Moderate to good condition; located at edge of proposed road allowance, immediately adjacent to swale	Remove
107. Populus x canadensis	Carolina poplar	24" DBH Dead; located within road allowance	Remove
108. Pinus nigra	Austrian pine	10" DBH Poor to moderate condition; located within road allowance	Remove

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Latin	Common	Information	Recommendation
109. Populus x canadensis	Carolina poplar	24" DBH Dead; located within building envelope	Remove
110. Populus x canadensis	Carolina poplar	13" DBH Dead; located within building envelope	Remove
111. Populus x canadensis	Carolina poplar	20" DBH Moderate to good; located within building envelope	Remove
112. Populus x canadensis	Carolina poplar	Dead	Remove
113. Salix babylonica	Weeping willow	44" DBH Pruning required in canopy	Preserve
114. Salix babylonica	Weeping willow	36" DBH Good specimen	Preserve
115. Acer saccharinum	Silver maple	17" DBH Good condition	Preserve
116. Salix babylonica	Weeping willow	16" to 24" DBH Dual trunk at 1.2 m Stub removal required	Preserve
117. Salix babylonica	Weeping willow	25" , 16" – 48" Dual trunks at 1m Pruning necessary	Preserve
118. Salix babylonica	Weeping willow	38" DBH Arboriculture work required	Preserve
119. Salix babylonica	Weeping willow	42" DBH Mature specimen Needs arboriculture work	Preserve
120. Salix babylonica	Weeping willow	36" DBH Mature Needs arboriculture work	Preserve
121. Salix babylonica	Weeping willow	23" DBH Mature Good condition	Preserve
122. Salix babylonica	Weeping willow	25" DBH Remedial pruning work required Good condition	Preserve
123. Salix babylonica	Weeping willow	25" DBH Major trunk rot	Remove
124. Salix babylonica	Weeping willow	22" DBH Decay in trunk Poor condition	Remove
125. Salix babylonica	Weeping willow	30" DBH Hangers Needs arboriculture work	Preserve
126. Salix babylonica	Weeping willow	30" DBH Major arboriculture work required Poor condition; located within road allowance	Remove
127. Salix babylonica	Weeping willow	24" DBH Mature specimen Pruning required; located at edge of roadway	Remove

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Latin	Common	Information	Recommendation
128. Salix babylonica	Weeping willow	24" DBH Mature specimen Pruning required; located within road allowance	Remove
129. Salix babylonica	Weeping willow	29" DBH Major pruning required Poor condition; located within road allowance	Remove
130. Acer saccharinum	Silver maple	12" DBH Some pruning required Good condition; located within building envelope	Remove
131. Acer saccharinum	Silver maple	12" DBH Some pruning required on trunk	Preserve
132. Acer saccharinum	Silver maple	24" DBH Multi trunked Remove girdling rope	Preserve
133. Acer saccharinum	Silver maple	12" DBH Good condition	Preserve
134. Acer saccharinum	Silver maple	12" , 14" DBH Double trunk at 1.2 m Good condition	Remove
135. Acer saccharinum	Silver maple	36" DBH Good to very good condition	Preserve
136. Acer saccharinum	Silver maple	30" DBH Double trunks at 4.5' Good to moderate condition	Preserve
137. Salix babylonica	Weeping willow	48" DBH Multiple trunks Pruning necessary; within road allowance	Remove
138. Acer rubrum	Red Maple	Located within road allowance; some mechanical damage at base of trunk	Remove
139. Acer saccharinum	Silver maple	28" DBH Good condition	Preserve
140. Acer saccharinum	Silver maple	20" DBH Some pruning in canopy Dual trunk at 2m, 18"; located within building envelope	Remove
141. Acer saccharinum	Silver maple	11" DBH Numerous suckers at base Extensive pruning required Poor to moderate condition; located within building envelope	Remove
142. Acer saccharinum	Silver maple	18" DBH Good condition; located within building envelope	Remove
143. Acer saccharinum	Silver maple	36" DBH Moderate to good; located within building envelope	Remove
144. Acer saccharinum	Silver maple	37" DBH Pruning required Numerous trunks at 2m Very good condition	Preserve
145. Acer saccharinum	Silver maple	30" DBH Triple trunk Good to very good condition	Preserve

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Latin	Common	Information	Recommendation
146. Salix babylonica	Weeping willow	48" DBH Corrective pruning required; within road allowance	Remove
147. Acer saccharinum	Silver maple	26" DBH Cavity on North side of tree Moderate to good condition; within road allowance	Remove
148. Acer saccharinum	Silver maple	Good to very good condition 24" DBH	Preserve
149. Acer saccharinum	Silver maple	14" DBH Excellent condition; located within building envelope	Remove
150. Platanus x acerifolia	London planetree	Poor specimen; located within building envelope	Remove
151. Tilia cordata	Little leaf linden	6" DBH Good condition	Preserve
152. Acer saccharinum	Silver maple	7" DBH Good condition	Preserve
153. Fraxinus sp.	White/Green ash	5" DBH Poor to moderate condition; located within building envelope	Remove
154. Tilia cordata	Little leaf linden	8" DBH Excellent condition	Preserve
155. Acer rubrum	Red maple	5" DBH Minor pruning Good condition; mechanical damage at tree base; located within road allowance	Remove
156. Salix babylonica	Weeping willow	30" DBH Major damage (decay) on trunk at 1.8m; located within road allowance	Remove
157. Salix babylonica	Weeping willow	36" DBH Dead; located within road allowance	Remove
158. Salix babylonica	Weeping willow	5.5" DBH Arboriculture work required Trunk decay Poor to moderate condition	Remove
159. Unable to locate tree	n/a		
160. Salix babylonica	Weeping willow	42" DBH Poor to moderate condition	Remove
161. Salix babylonica	Weeping willow	30" DBH Burls on trunk Moderate to good	Preserve
162. Salix babylonica	Weeping willow	Significant arboriculture work required; located within building envelope	Remove
163. Acer saccharinum	Silver maple	Double trunks at 8m Good condition; located within building envelope	Remove
164. Acer saccharinum	Silver maple	30" DBH Double trunks @ 1.5 m Good to very good condition; located within building envelope	Remove
165. Acer saccharinum	Silver maple	14" DBH Hangers Good condition; located within building envelope	Remove

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Latin	Common	Information	Recommendation
166. Tilia cordata	Little leaf linden	10" DBH Good condition	Preserve
167. Pinus strobus	White pine	7.5" DBH Poor to moderate; remove to facilitate construction of driveway	Remove
168. Platanus x acerifolia	London planetree	11" DBH Good condition; located within road allowance	Remove
169. Fraxinus sp.	White/Green ash	5" DBH Good condition; located within road allowance	Remove
170. Pinus strobus	White pine	10" DBH Good condition; within road allowance	Remove
171. Fraxinus sp.	White/Green ash	6" DBH Good condition; located within road allowance	Remove
172. Pinus strobus	White pine	10" DBH Limbed up Very good condition Remove T Bars at base; located within road allowance	Remove
173. Fraxinus sp.	White/Green ash	10" DBH Very good condition; located within road allowance	Remove
174. Acer rubrum	Red maple	3" DBH Good condition; within road allowance	Remove
175. Acer saccharinum	Silver maple	5" DBH Good to very good condition; within road allowance	Remove
176. Acer saccharinum	Silver maple	23" DBH Requires stump removal Good to very good condition	Preserve
177. Acer saccharinum	Silver maple	27" DBH	Preserve
178. Platanus x acerifolia	London planetree	9.5" DBH Very good condition; located within building envelope	Remove
179. Platanus x acerifolia	London planetree	10" DBH Very good condition	Preserve
180. Acer saccharinum	Silver maple	19" DBH Good condition, located within building envelope	Remove
181. Acer saccharinum	Silver maple	20" DBH Very good condition, located within 'Fowler's Toad Habitat'	Remove
182. Tilia cordata	Little leaf linden	9" DBH Very good condition, located within building envelope	Remove
183. Fraxinus sp.	White/Green ash	10" DBH Some environmental damage Good condition, located within building envelope	Remove
184. Fraxinus sp.	White/Green ash	18", 14" dual trunk at .5m Pruning at canopy Moderate to good condition, located within 'Fowler's Toad Habitat'	Remove
185. Fraxinus sp.	White/Green ash	Located within 'Fowler's Toad Habitat'	Remove
186. Acer saccharinum	Silver maple	Multiple trunk Good condition, located within 'Fowler's Toad Habitat'	Remove

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Latin	Common	Information	Recommendation
187. <i>Platanus x acerifolia</i>	London planetree	6" DBH Very good condition, located within 'Fowler's Toad Habitat'	Remove
188. <i>Fraxinus</i> sp.	White/Green ash	Double trunk 0.5 m Good condition, located within 'Fowler's Toad Habitat'	Remove
189. <i>Fraxinus</i> sp.	White/Green ash	7" & 12" DBH trunks Good condition, located within 'Fowler's Toad Habitat'	Remove
190. <i>Fraxinus</i> sp.	White/Green ash	Located on Primary Dune, located within 'Fowler's Toad Habitat'	Remove
191. <i>Fraxinus</i> sp.	White/Green ash	Located on Primary Dune, located within 'Fowler's Toad Habitat'	Remove
192. <i>Fraxinus</i> sp.	White/Green ash	Located on Primary Dune, located within 'Fowler's Toad Habitat'	Remove
193. <i>Acer saccharinum</i>	Silver maple	13" DBH Some removal of sucker growth Good condition; located within building envelope	Remove
194. <i>Acer saccharinum</i>	Silver maple	12" DBH Dual trunk at 1.8 m Moderate to good, located within 'Fowler's Toad Habitat'	Remove
195. <i>Acer saccharinum</i>	Silver maple	16" DBH Some pruning required Good condition Remove girdling rope, located within 'Fowler's Toad Habitat'	Remove
196. <i>Acer saccharinum</i>	Silver maple	12" DBH Remove suckers Good condition, located within 'Fowler's Toad Habitat'	Remove
197. <i>Acer saccharinum</i>	Silver maple	12", 13" DBH Double trunk at 1.5m Some pruning required Good condition, located within 'Fowler's Toad Habitat'	Remove
198. <i>Populus x canadensis</i>	Carolina poplar	42" DBH Mature	Preserve
199. <i>Populus x canadensis</i>	Carolina poplar	7" DBH Good condition	Preserve
200. <i>Fraxinus</i> sp.	White/Green ash	8" DBH Good condition	Preserve
201. <i>Fraxinus</i> sp.	White/Green ash	8" DBH Good condition	Preserve
202. <i>Fraxinus</i> sp.	White/Green ash	7" DBH Good condition	Preserve
203. <i>Acer saccharinum</i>	Silver maple	28" DBH Hangers Good condition	Preserve
204. <i>Acer saccharinum</i>	Silver maple	Multiple trunk at 1m Hangers Requires pruning Good condition	Preserve

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Latin	Common	Information	Recommendation
205. Acer saccharinum	Silver maple	39" DBH Very interesting specimen Low-branched, very ornamental	Preserve
206. Acer saccharinum	Silver maple	Good condition	Preserve
207. Acer saccharinum	Silver maple	12" DBH Good condition	Preserve
208. Acer saccharinum	Silver maple	12" DBH Good condition	Preserve
209. Acer saccharinum	Silver maple	20" DBH Good condition	Preserve
210. Acer saccharinum	Silver maple	18" DBH Good condition	Preserve
211. Acer saccharinum	Silver maple	Multiple trunks @ 2m Good condition	Preserve
212. Acer saccharinum	Silver maple	10" DBH Good condition	Preserve
213. Acer saccharinum	Silver maple	9" DBH Corrective pruning required Moderate to good condition Branches ascending	Preserve
214. Acer saccharinum	Silver maple	20" DBH Multiple branched Moderate condition	Preserve
215. Acer saccharinum	Silver maple	9" DBH Some deadwood present Poor to moderate condition Some pruning required	Preserve
216. Fraxinus sp.	White/Green ash	9" DBH Moderate condition	Preserve
217. Acer saccharinum	Silver maple	18" DBH Poor condition Corrective pruning required; located where water treatment plant to be built	Remove
218. Acer saccharinum	Silver maple	12" DBH Double trunked at 1.2 m Some remedial pruning required; located where water treatment plant to be built	Remove
219. Acer saccharinum	Silver maple	20" DBH Some hangers in the tree Good condition; located where water treatment plant to be built	Remove
220. Picea abies	Norway spruce	12" DBH Very poor condition	Remove
221. Picea abies	Norway spruce	12" DBH Dead	Remove
222. Acer saccharinum	silver maple	24" DBH Good to very good Some hangers in tree; located where water treatment plant to be built	Remove

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Latin	Common	Information	Recommendation
223. Acer saccharinum	silver maple	24" DBH Numerous hangers good condition; located where water treatment plant to be built	Remove
224. Acer saccharinum	Silver maple	300" DBH Several large stubs Poor to good condition; located where water treatment plant to be built	Remove
225. Acer saccharinum	Silver maple	32" DBH Double trunked at about 1.2 m Numerous hangers Some pruning required Moderate condition; located where water treatment plant to be built	Remove
226. Acer saccharinum	Silver maple	30" DBH Moderate condition Low branched Some corrective pruning in canopy required	Preserve
227. Acer saccharinum	Silver maple	20" DBH Multi-branches from trunk about 6' Hangers present Crown poor condition Tree poor condition	Preserve
228. Acer saccharinum	Silver maple	30" DBH Multiple branches from trunk about 4' Reasonably attractive for species Requires pruning	Preserve
229. Acer saccharinum	Silver maple	12" DBH suckers from the base Poor specimen for species Major damage at trunk base	Remove
230. Acer saccharinum	Silver maple	Triple branched trunk from ground Branches descending from base 20" descending and 12" and 8" trunks No previous pruning on tree	Preserve
231. Acer saccharinum	Silver maple	30" base Significant pruning required Branches ascending to base Good specimen	Preserve
232. Acer saccharinum	Silver maple	15" DBH Some hangers present Good specimen	Preserve
233. Acer saccharinum	Silver maple	12" DBH Multiple trunks at 2 m Some pruning required Some branches descending to base	Preserve
234. Acer saccharinum	Silver maple	14" DBH Some hangers Minor corrective pruning required Good specimen	Preserve
235. Picea glauca	White spruce	9" DBH Very good condition	Preserve

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Latin	Common	Information	Recommendation
236. Picea glauca	White spruce	8" DBH Good specimen Branches to base	Preserve
237. Picea glauca	White spruce	9" DBH Numerous dead branches or leaves Poor condition	Remove
238. Acer saccharinum	Silver maple	11" DBH Moderate to good	Preserve
239. Fraxinus sp.	White/Green ash	20" DBH Within road allowance, direct centre of swale	Remove
240. Fraxinus sp.	White/Green ash	12" DBH Good condition	Preserve
241. Juniperus sp.	Juniper	Located where grading necessary to benefit Fowler's Toad Habitat	Remove
242. Juniperus sp.	Juniper	Located where grading necessary to benefit Fowler's Toad Habitat	Remove
243. Pinus strobus	White pine	6" DBH Poor condition; located where grading necessary to benefit Fowler's Toad Habitat	Remove
244. Pinus strobus	White pine	8" DBH Poor to moderate condition; located where grading necessary to benefit Fowler's Toad Habitat	Remove
245. Pinus strobus	White pine	8" DBH Located where grading necessary to benefit Fowler's Toad Habitat	Remove
246. Picea glauca	White spruce	5" DBH Poor condition; located where grading necessary to benefit Fowler's Toad Habitat	Remove
247. Picea glauca	White spruce	4" DBH Part of conifer group Poor condition; located where grading necessary to benefit Fowler's Toad Habitat	Remove

13.0 References

Dillon Consulting Limited. 2013. Fowler's Toad Overall Benefits Application. Prepared for Lakewood Beach Properties Ltd.

Dillon Consulting Limited. 2016. Lakewood Beach Properties Ltd., Updated Scoped Environmental Impact Study, Lakewood Beach Properties

Ferris + Associates Inc. 2011. Arborist Report. Prepared for Lakewood Beach Community, Wainfleet, Ontario

Ministry of Natural Resources. Permit #: GU-C-007-13 Permit Under clause 17 (2)(c) of The Endangered Species Act, 2007.

14.0 Appendix

14.1 Excerpt - “Updated Scoped Environmental Impact Study”

Excerpt from Dillon Consulting Limited report entitled “Lakewood Beach Properties Ltd., *Updated Scoped Environmental Impact Study*, Lakewood Beach Properties” in April 2016, pgs. 16-21.

14.2 Map #1 - Map Showing Location of Existing Trees

This plan, Map #1, shows the location of all trees found on the Lakewood Beach site from data provided by Ferris & Associates Inc. As mentioned earlier in this report, a limited number of trees (3) were not found on the property from the available survey information.

14.3 Map #2 - Showing Trees Recommended/Required for Removal

In the centre of each tree, a prominent ‘X’ has been shown through every plant that has been recommended for removal on Map #2. It’s important to note that no rare or endangered trees were found on the property and that all the trees on the primary dune with the exception of the *Ulmus parvifolia* (Chinese elm) and one *Acer platanoides* (Norway maple) should be removed to enhance the Fowler’s Toad ecosystem.